

**Experiment Number:** 20105 - 59

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** RATS/HSD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 01/02/2018

**Time Report Requested:** 11:58:55

**First Dose M/F:** 09/16/12 / 09/16/12

**Lab:** IIT

Final 2 - Data Changes through 12-15-17 GSM Rats Core Only

**NTP Study Number:**

C20105

**Lock Date:**

12/29/2015

**Cage Range:**

ALL

**Date Range:**

ALL

**Reasons For Removal:**

25022 ACCK

25021 TSAC

25020 NATD

25019 MSAC

**Removal Date Range:**

ALL

**Treatment Groups:**

Include ALL

**Study Gender:**

Both

**TDMSE Version:**

3.0.2.3\_002

**PWG Approval Date:**

NONE

Note: Animals arranged according to days on test.

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DAY ON TEST	HARLAN SPRAGUE DAWLEY RATS MALE																								ANIMAL ID	males (cont...)
	02	02	02	04	04	04	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05		
1	4	9	4	9	9	1	1	2	4	5	5	6	6	6	6	7	9	7	8	8	8	8	9	9	0	
2	8	4	0	6	8	0	0	7	1	2	5	2	3	5	7	9	7	0	0	2	4	0	5	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	5	5	5	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	
7	8	0	1	0	1	3	9	1	1	2	9	8	2	2	4	9	7	1	4	5	8	0	6	0		
3	9	4	2	1	9	6	4	3	4	1	9	3	0	7	3	2	8	1	2	9	8	3	0	2		

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	A	+	+	+	+	+	+	A	+	+	+	+	A	+	A	A	A	+	+	+	+	+	A	+
Intestine Large, Colon	A	+	+	+	+	+	+	A	+	+	+	+	A	+	+	A	+	+	+	+	+	+	A	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	A	+	+	+	+	+	+	A	+
Intestine Small, Duodenum	A	+	+	+	+	+	+	+	+	+	+	+	A	A	+	A	A	+	+	+	+	A	A	+
Intestine Small, Ileum	A	+	A	+	+	+	+	A	+	+	+	+	A	A	+	A	+	+	+	+	+	+	A	+
Intestine Small, Jejunum Adenocarcinoma	A	+	+	+	+	+	+	A	A	+	+	+	+	A	A	A	A	A	+	+	+	+	A	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mesentery					+	+		+			+	+		+	+			+	+	+	+	+	+	+
Pancreas Adenoma Adenoma, Multiple Carcinoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Salivary Glands Sublingual Gland, Schwannoma Malignant, Metastatic, Uncertain Primary Site	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach Squamous Cell Papilloma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

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DAY ON TEST	HARLAN SPRAGUE DAWLEY RATS MALE																								ANIMAL ID	males (cont...)	
	02	02	02	04	04	04	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05			06
1	4	9	4	9	9	1	1	2	4	5	5	6	6	6	6	7	9	7	8	8	8	8	9	9	0	0005783	
2	8	4	0	6	8	0	0	7	1	2	5	2	3	5	7	9	7	0	0	0	2	4	0	5	0	0005573	

Stomach, Glandular

A + + + + + + + + + + + + + A + + A + + + + + + A +

CARDIOVASCULAR SYSTEM

Aorta

+ +

Blood Vessel

+

Heart

+ +

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

Adenoma

Adrenal Medulla

+ +

Pheochromocytoma Benign

X

Pheochromocytoma Benign, Multiple

Pheochromocytoma Complex

Pheochromocytoma Malignant

Bilateral, Pheochromocytoma Benign

Islets, Pancreatic

+ +

Adenoma

Carcinoma

Parathyroid Gland

+ + + + + M + + + + + + + I + + + + + + + M +

Adenoma

Pituitary Gland

+ +

Pars Distalis, Adenoma

X X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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 Route: Whole Body Exposure  
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018  
 Time Report Requested: 11:58:55  
 First Dose M/F: 09/16/12 / 09/16/12  
 Lab: IIT

| DAY ON TEST                            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                      | 0 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------|---|
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b> | 2 | 2 | 2 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5                      | 6 |
| <b>0.0W/kg(GSM)chr</b>                 | 1 | 4 | 9 | 4 | 9 | 9 | 1 | 1 | 2 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9                      | 0 |
| <b>ANIMAL ID</b>                       | 2 | 8 | 4 | 0 | 6 | 8 | 0 | 0 | 7 | 1 | 2 | 5 | 2 | 3 | 5 | 7 | 9 | 7 | 0 | 0 | 2 | 4 | 0 | 0 | 5 | 5 | 0 | 0                      |   |
|  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                      | 0 |
|  | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6                      |   |
|  | 7 | 8 | 0 | 1 | 0 | 1 | 3 | 9 | 1 | 1 | 2 | 9 | 8 | 2 | 4 | 9 | 7 | 1 | 4 | 5 | 8 | 0 | 6 | 6 | 0 | 0 | 0 | 0                      |   |
|  | 3 | 9 | 4 | 2 | 1 | 9 | 6 | 4 | 3 | 4 | 1 | 9 | 3 | 0 | 7 | 3 | 2 | 8 | 1 | 2 | 9 | 8 | 0 | 2 | 0 | 0 | 0 | 2                      |   |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>males (cont...)</b> |   |

|                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thyroid Gland     | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Adenoma   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| C-cell, Carcinoma |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

GENERAL BODY SYSTEM

|                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
|-----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Tissue NOS                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
| Mediastinum, Schwannoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + |

GENITAL SYSTEM

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bulbourethral Gland               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |
| Ductus Deferens                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Epididymis                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Preputial Gland                   | + | + | + | + | + | + | + | + | + | + | + |   | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Prostate Adenoma                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Seminal Vesicle                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Testis Interstitial Cell, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |

HEMATOPOIETIC SYSTEM

|             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node  |   |   |   |   | + | + |   |   |   |   | + |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |

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Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>0.0W/kg(GSM)chr | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | males<br>(cont...)    |                       |        |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------|
|   | 0<br>2                | 0<br>2                | 0<br>2                | 0<br>4                | 0<br>4                | 0<br>4                | 0<br>5                | 0<br>5                | 0<br>5                | 0<br>5                | 0<br>5                | 0<br>5                | 0<br>5                | 0<br>5                | 0<br>5                | 0<br>5                | 0<br>5                | 0<br>5                | 0<br>5                | 0<br>5                | 0<br>5                | 0<br>5                | 0<br>5                |                       | 0<br>5                | 0<br>6 |
|   | 1<br>2                | 4<br>8                | 9<br>4                | 4<br>0                | 9<br>6                | 9<br>8                | 1<br>0                | 1<br>0                | 2<br>7                | 4<br>1                | 5<br>2                | 5<br>5                | 6<br>2                | 6<br>3                | 6<br>5                | 6<br>7                | 6<br>9                | 7<br>7                | 8<br>0                | 8<br>0                | 8<br>2                | 8<br>4                | 9<br>0                |                       | 9<br>5                | 0<br>0 |
| ANIMAL ID   | 0<br>0<br>5<br>7<br>3 | 0<br>0<br>5<br>8<br>9 | 0<br>0<br>5<br>0<br>4 | 0<br>0<br>5<br>1<br>2 | 0<br>0<br>6<br>0<br>1 | 0<br>0<br>5<br>0<br>9 | 0<br>0<br>5<br>3<br>6 | 0<br>0<br>5<br>9<br>4 | 0<br>0<br>5<br>1<br>3 | 0<br>0<br>5<br>1<br>4 | 0<br>0<br>5<br>2<br>1 | 0<br>0<br>5<br>5<br>9 | 0<br>0<br>5<br>5<br>3 | 0<br>0<br>5<br>5<br>2 | 0<br>0<br>5<br>5<br>0 | 0<br>0<br>5<br>4<br>7 | 0<br>0<br>5<br>9<br>2 | 0<br>0<br>5<br>7<br>8 | 0<br>0<br>5<br>1<br>1 | 0<br>0<br>5<br>4<br>2 | 0<br>0<br>5<br>5<br>9 | 0<br>0<br>5<br>8<br>8 | 0<br>0<br>5<br>0<br>3 | 0<br>0<br>5<br>5<br>0 | 0<br>0<br>6<br>6<br>2 |        |
| Lymph Node, Mandibular                                | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |        |
| Lymph Node, Mesenteric                                | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |        |
| Spleen Hemangiosarcoma                                | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | X                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | X                     | +                     | +                     |        |
| Thymus  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |        |

INTEGUMENTARY SYSTEM

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland Fibroadenoma        | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skin Basal Cell Adenoma           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Keratoacanthoma                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Squamous Cell Papilloma           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sebaceous Gland, Adenoma          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Fibroma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Fibrosarcoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Lipoma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Sarcoma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |

MUSCULOSKELETAL SYSTEM

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

NERVOUS SYSTEM

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 + .. Tissue examined microscopically  
 X .. Lesion present  
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|  |                        |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                        |
|--|------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b> | <b>0.0W/kg(GSM)chr</b> |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | <b>males (cont...)</b> |
| DAY ON TEST                            | 0<br>2<br>1<br>2       | 0<br>2<br>4<br>8 | 0<br>2<br>9<br>4 | 0<br>4<br>4<br>0 | 0<br>4<br>9<br>6 | 0<br>4<br>9<br>8 | 0<br>5<br>1<br>0 | 0<br>5<br>1<br>0 | 0<br>5<br>2<br>7 | 0<br>5<br>4<br>1 | 0<br>5<br>5<br>2 | 0<br>5<br>5<br>5 | 0<br>5<br>6<br>6 | 0<br>5<br>6<br>3 | 0<br>5<br>6<br>5 | 0<br>5<br>6<br>7 | 0<br>5<br>7<br>9 | 0<br>5<br>8<br>0 | 0<br>5<br>8<br>0 | 0<br>5<br>8<br>2 | 0<br>5<br>8<br>4 | 0<br>5<br>9<br>0 | 0<br>5<br>9<br>5 | 0<br>6<br>0<br>0 |                        |
| ANIMAL ID                              | 0<br>5<br>7<br>3       | 0<br>5<br>8<br>9 | 0<br>5<br>0<br>4 | 0<br>0<br>1<br>2 | 0<br>5<br>0<br>1 | 0<br>6<br>1<br>9 | 0<br>5<br>3<br>6 | 0<br>5<br>9<br>4 | 0<br>5<br>1<br>3 | 0<br>5<br>1<br>4 | 0<br>5<br>2<br>1 | 0<br>5<br>5<br>9 | 0<br>5<br>5<br>8 | 0<br>5<br>5<br>2 | 0<br>5<br>5<br>0 | 0<br>5<br>4<br>7 | 0<br>5<br>9<br>8 | 0<br>5<br>7<br>1 | 0<br>5<br>5<br>4 | 0<br>5<br>5<br>5 | 0<br>5<br>5<br>8 | 0<br>5<br>5<br>0 | 0<br>5<br>5<br>3 | 0<br>5<br>5<br>6 | 0<br>6<br>0<br>2       |

|                                      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Brain                                | +   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Meninges, Granular Cell Tumor Benign | +   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nerve Trigeminal                     | +   + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peripheral Nerve, Sciatic            | +   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peripheral Nerve, Tibial             | M +   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Spinal Cord, Cervical                | +   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Spinal Cord, Lumbar                  | +   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Spinal Cord, Thoracic                | +   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Trigeminal Ganglion                  | + + M + + + + +   +   + + + + + + + +   M M + + +   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**RESPIRATORY SYSTEM**

|  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Lung   | +   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Alveolar/Bronchiolar Adenoma                             | +   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nose   | + + + + + + + + + + + X + + + + A + + + + + + + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site | +   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Trachea  | +   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**SPECIAL SENSES SYSTEM**

|     |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Eye | A + + + + + + + + A + + + + + + + A + + + + + + + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

|                                 |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST                     |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
| HARLAN SPRAGUE DAWLEY RATS MALE |  | 2 | 2 | 2 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 |
| 0.0W/kg(GSM)chr                 |  | 1 | 4 | 9 | 4 | 9 | 9 | 1 | 1 | 2 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 0 |   |
| ANIMAL ID                       |  | 2 | 8 | 4 | 0 | 6 | 8 | 0 | 0 | 7 | 1 | 2 | 5 | 2 | 3 | 5 | 7 | 9 | 7 | 0 | 0 | 2 | 4 | 0 | 5 | 0 | 0 |   |   |
|                                 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|                                 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|                                 |  | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 |   |
|                                 |  | 7 | 8 | 0 | 1 | 0 | 1 | 3 | 9 | 1 | 1 | 2 | 9 | 8 | 2 | 2 | 4 | 9 | 7 | 1 | 4 | 5 | 8 | 0 | 6 | 0 | 0 |   |   |
|                                 |  | 3 | 9 | 4 | 2 | 1 | 9 | 6 | 4 | 3 | 4 | 1 | 9 | 3 | 0 | 7 | 3 | 2 | 8 | 1 | 2 | 9 | 8 | 0 | 2 | 0 | 2 |   |   |

males  
(cont...)

Retrolubar, Schwannoma Malignant,  
Metastatic, Uncertain Primary Site

X

Harderian Gland  
Schwannoma Malignant, Metastatic, Uncertain  
Primary Site

+  
X

Lacrimal Gland

**URINARY SYSTEM**

Kidney  
Lipoma  
Oncocytoma Benign  
Bilateral, Renal Tubule, Adenoma, Multiple  
Bilateral, Renal Tubule, Carcinoma  
Renal Tubule, Adenoma  
Renal Tubule, Adenoma, Multiple

+  
  
  
  
  
X  
X  
X

Urinary Bladder

+ + + + + + + + + + + + + + + A + + + + + + + +

**SYSTEMIC LESIONS**

Multiple Organ  
Lymphoma Malignant  
Mesothelioma Malignant

+  
X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>0.0W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |      |      |      |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|
|   | 0604        | 0604 | 0610 | 0611 | 0622 | 0624 | 0629 | 0630 | 0641 | 0642 | 0644 | 0645 | 0648 | 0649 | 0657 | 0658 | 0659 | 0662 | 0662 | 0663 |           |                    | 0663 | 0666 | 0667 |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0                  | 0    | 0    | 0    |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0                  | 0    | 0    | 0    |
|   | 5           | 5    | 5    | 5    | 5    | 5    | 6    | 5    | 5    | 5    | 6    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5         | 5                  | 5    | 5    | 5    |
|   | 4           | 7    | 3    | 9    | 7    | 8    | 0    | 7    | 6    | 0    | 0    | 9    | 1    | 0    | 8    | 9    | 6    | 5    | 5    | 6    | 4         | 6                  | 7    | 7    | 1    |
|   | 5           | 1    | 9    | 5    | 4    | 0    | 5    | 6    | 6    | 1    | 0    | 5    | 6    | 1    | 1    | 9    | 2    | 5    | 1    | 1    | 3         | 0                  | 7    | 7    | 7    |

ALIMENTARY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum   | + | + | + | + | A | + | + | A | A | + | + | + | A | + | + | + | + | + | + | + | + | + | A | + |
| Intestine Large, Colon   | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Intestine Large, Rectum  | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Intestine Small, Duodenum  | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum   | + | + | + | A | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Intestine Small, Jejunum<br>Adenocarcinoma   | + | + | + | + | A | A | + | A | A | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery  | + |   | + | + |   | + | + | + | + |   |   |   |   |   |   |   | + |   | + | + | + | + |   |   |
| Pancreas<br>Adenoma<br>Adenoma, Multiple<br>Carcinoma  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands<br>Sublingual Gland, Schwannoma Malignant,<br>Metastatic, Uncertain Primary Site | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach<br>Squamous Cell Papilloma  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically



Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>MALE</b><br><b>0.0W/kg(GSM)chr</b> | DAY ON TEST | 0604 | 0604 | 0601 | 0601 | 0602 | 0602 | 0602 | 0603 | 0604 | 0604 | 0604 | 0605 | 0605 | 0607 | 0608 | 0609 | 0602 | 0602 | 0603 | 0603 | 0606 | 0607 | 0607 |
|  | ANIMAL ID   | 0054 | 0055 | 0055 | 0055 | 0055 | 0056 | 0055 | 0055 | 0056 | 0055 | 0055 | 0055 | 0055 | 0058 | 0059 | 0055 | 0055 | 0055 | 0056 | 0054 | 0056 | 0057 | 0057 |

males  
(cont...)

Stomach, Glandular

+ +

**CARDIOVASCULAR SYSTEM**

Aorta

+ +

Blood Vessel

Heart

+ +

**ENDOCRINE SYSTEM**

Adrenal Cortex

+ +

Adenoma

X

Adrenal Medulla

+ +

Pheochromocytoma Benign

X

Pheochromocytoma Benign, Multiple

X

Pheochromocytoma Complex

X

Pheochromocytoma Malignant

X

Bilateral, Pheochromocytoma Benign

Islets, Pancreatic

+ +

Adenoma

X

Carcinoma

X

X X X

Parathyroid Gland

+ + + + + M + + + + M + + + M + + + + + I +

Adenoma

X

Pituitary Gland

+ + M +

Pars Distalis, Adenoma

X

X

X

X

X X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018  
 Time Report Requested: 11:58:55  
 First Dose M/F: 09/16/12 / 09/16/12  
 Lab: IIT

| DAY ON TEST                     |                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               |
|---------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| HARLAN SPRAGUE DAWLEY RATS MALE | 0.0W/kg(GSM)chr | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6               |
|                                 |                 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7               |
|                                 |                 | 4 | 4 | 0 | 6 | 4 | 4 | 9 | 0 | 1 | 2 | 5 | 8 | 4 | 5 | 7 | 8 | 9 | 2 | 2 | 2 | 3 | 3 | 6 | 1 | 7 | 7               |
| ANIMAL ID                       |                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               |
|                                 |                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               |
|                                 |                 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5               |
|                                 |                 | 4 | 7 | 3 | 9 | 7 | 8 | 0 | 7 | 6 | 0 | 0 | 9 | 1 | 0 | 8 | 9 | 6 | 5 | 5 | 6 | 4 | 1 | 3 | 7 | 1 | 7               |
|                                 |                 | 5 | 1 | 9 | 5 | 4 | 0 | 5 | 6 | 6 | 1 | 0 | 8 | 5 | 6 | 1 | 1 | 9 | 2 | 5 | 1 | 4 | 3 | 0 | 7 | 7 |                 |
|                                 |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | males (cont...) |

|                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Thyroid Gland     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| C-cell, Adenoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| C-cell, Carcinoma |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

GENERAL BODY SYSTEM

|                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
|-----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Tissue NOS                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
| Mediastinum, Schwannoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + |
|                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |

GENITAL SYSTEM

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bulbourethral Gland               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ductus Deferens                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |
| Epididymis                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Preputial Gland                   | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Prostate Adenoma                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|                                   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Seminal Vesicle                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testis Interstitial Cell, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |

HEMATOPOIETIC SYSTEM

|             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node  |   |   | + |   |   |   | + |   |   |   |   |   | + |   |   | + |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST     | HARLAN SPRAGUE DAWLEY RATS MALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males (cont...) |
|-----------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
|                 | 0604                            | 0604 | 0601 | 0601 | 0602 | 0602 | 0602 | 0603 | 0604 | 0604 | 0605 | 0605 | 0607 | 0608 | 0609 | 0609 | 0602 | 0602 | 0603 | 0603 | 0606 | 0607 | 0607 | 0607 |           |                 |
| 0.0W/kg(GSM)chr | 0054                            | 0054 | 0050 | 0050 | 0050 | 0050 | 0056 | 0055 | 0055 | 0056 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0056 | 0057 | 0057 | 0057 |           |                 |

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen Hemangiosarcoma | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + |   |
| Thymus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + |

INTEGUMENTARY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland Fibroadenoma             | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | M | + | M | + | + | + | M | + | + |
| Skin Basal Cell Adenoma                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Skin Keratoacanthoma                   |   |   | X |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Skin Squamous Cell Papilloma           |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Skin Sebaceous Gland, Adenoma          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Skin Subcutaneous Tissue, Fibroma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Skin Subcutaneous Tissue, Fibrosarcoma |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Skin Subcutaneous Tissue, Lipoma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Skin Subcutaneous Tissue, Sarcoma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

MUSCULOSKELETAL SYSTEM

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

NERVOUS SYSTEM

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>0.0W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |      |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
|   | 0604        | 0604 | 0601 | 0601 | 0602 | 0602 | 0602 | 0603 | 0604 | 0604 | 0605 | 0605 | 0607 | 0608 | 0609 | 0609 | 0602 | 0602 | 0603 | 0603 |           |                    | 0606 |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0                  | 0    |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0                  | 0    |
|   | 5           | 5    | 5    | 5    | 5    | 5    | 6    | 5    | 5    | 5    | 6    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5         | 5                  | 5    |
|   | 4           | 7    | 3    | 9    | 7    | 8    | 0    | 7    | 6    | 0    | 0    | 9    | 1    | 0    | 8    | 9    | 6    | 5    | 5    | 6    | 4         | 6                  | 7    |
|   | 5           | 1    | 9    | 5    | 4    | 0    | 5    | 6    | 6    | 1    | 0    | 5    | 6    | 0    | 1    | 9    | 2    | 5    | 1    | 3    | 0         | 7                  | 7    |

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Meninges, Granular Cell Tumor Benign |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nerve Trigeminal                     | + | + | + | + | + | + | + | + | + | + | I | + | + | + | M | + | + | + | M | + | + | + | I |
| Peripheral Nerve, Sciatic            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Tibial             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I |
| Spinal Cord, Cervical                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Lumbar                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Thoracic                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trigeminal Ganglion                  | + | + | + | + | + | + | M | + | + | + | + | + | + | I | + | + | + | + | + | M | + | + | + |

RESPIRATORY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Adenoma                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nose   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Trachea  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

|     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

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Species/Strain: RATS/HSD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                        |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b> | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | <b>males (cont...)</b> |
|  | 0604        | 0604 | 0601 | 0601 | 0602 | 0602 | 0602 | 0603 | 0604 | 0604 | 0605 | 0608 | 0604 | 0605 | 0607 | 0608 | 0609 | 0602 | 0602 | 0603 | 0603 | 0606 | 0607 | 0607 |                        |
| <b>0.0W/kg(GSM)chr</b>                 | ANIMAL ID   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                        |
|  | 0054        | 0055 | 0055 | 0055 | 0055 | 0056 | 0055 | 0055 | 0056 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055                   |

Retrolubar, Schwannoma Malignant, Metastatic, Uncertain Primary Site

Harderian Gland Schwannoma Malignant, Metastatic, Uncertain Primary Site

Lacrimal Gland

**URINARY SYSTEM**

Kidney Lipoma Oncocytoma Benign Bilateral, Renal Tubule, Adenoma, Multiple Bilateral, Renal Tubule, Carcinoma Renal Tubule, Adenoma Renal Tubule, Adenoma, Multiple

Urinary Bladder

**SYSTEMIC LESIONS**

Multiple Organ Lymphoma Malignant Mesothelioma Malignant

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST  |           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b><br><b>0.0W/kg(GSM)chr</b> | ANIMAL ID | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|  |           | 8 | 8 | 8 | 8 | 9 | 9 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|  |           | 1 | 5 | 7 | 8 | 1 | 1 | 4 | 5 | 5 | 1 | 5 | 5 | 9 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
|  |           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
|  |           | 0 | 5 | 8 | 9 | 1 | 7 | 4 | 5 | 0 | 8 | 3 | 6 | 2 | 3 | 6 | 1 | 3 | 4 | 8 | 8 | 2 | 3 | 4 | 5 | 5 |
|  |           | 9 | 8 | 4 | 7 | 0 | 2 | 6 | 3 | 4 | 5 | 0 | 2 | 4 | 7 | 6 | 8 | 6 | 7 | 6 | 7 | 9 | 3 | 9 | 7 | 7 |

males  
(cont...)

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum   | + | + | + | + | + | A | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon   | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum  | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum   | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum<br>Adenocarcinoma   | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery  | + |   |   | + |   |   |   | + | + | + |   | + |   |   |   |   |   |   | + |   |   |   |   |   | + |
| Pancreas<br>Adenoma  | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma, Multiple<br>Carcinoma   |   |   |   |   |   |   |   |   |   |   |   | X |   | X |   | X | X |   | X | X | X |   |   |   | X |
| Salivary Glands<br>Sublingual Gland, Schwannoma Malignant,<br>Metastatic, Uncertain Primary Site | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach<br>Squamous Cell Papilloma  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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Experiment Number: 20105 - 59

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Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

| DAY ON TEST<br><b>HARLAN SPRAGUE DAWLEY RATS<br/>MALE</b><br><b>0.0W/kg(GSM)chr</b> | ANIMAL ID |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | males<br>(cont...) |   |
|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|
|   | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                    | 0 |
|   | 6         | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                    | 7 |
|   | 8         | 8 | 8 | 8 | 9 | 9 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3                  |   |
|   | 1         | 5 | 7 | 8 | 1 | 1 | 4 | 5 | 5 | 1 | 5 | 5 | 9 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                  |   |
|   | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                  |   |
|   | 5         | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5                  |   |
|   | 0         | 5 | 8 | 9 | 1 | 7 | 4 | 5 | 0 | 8 | 3 | 6 | 2 | 3 | 6 | 1 | 3 | 4 | 8 | 8 | 2 | 3 | 4 | 5 | 5 | 5                  |   |
|   | 9         | 8 | 4 | 7 | 0 | 2 | 6 | 3 | 4 | 5 | 0 | 5 | 2 | 4 | 7 | 6 | 8 | 6 | 7 | 9 | 3 | 3 | 9 | 4 | 7 | 7                  |   |

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**CARDIOVASCULAR SYSTEM**

|              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Blood Vessel |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Heart        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**ENDOCRINE SYSTEM**

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adrenal Medulla                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pheochromocytoma Benign            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pheochromocytoma Benign, Multiple  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pheochromocytoma Complex           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pheochromocytoma Malignant         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bilateral, Pheochromocytoma Benign |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Islets, Pancreatic                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma                          |   |   |   |   | X |   | X |   |   |   |   |   |   |   | X | X |   |   |   |   | X |   |   | X |   |   |
| Parathyroid Gland                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pituitary Gland                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Adenoma             |   |   | X |   |   |   | X |   |   |   | X |   |   | X |   |   |   |   |   |   | X | X |   |   |   |   |

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+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
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CAS Number: CELLPRADGSM

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First Dose M/F: 09/16/12 / 09/16/12  
Lab: IIT

|                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| DAY ON TEST                     | 0681 | 0685 | 0687 | 0688 | 0691 | 0691 | 0694 | 0695 | 0695 | 0691 | 0695 | 0695 | 0691 | 0691 | 0692 | 0692 | 0693 | 0693 | 0693 | 0693 | 0693 | 0693 | 0693 | 0693 | 0693 | 0693 | 0693 | 0693 |      |
| HARLAN SPRAGUE DAWLEY RATS MALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 0.0W/kg(GSM)chr                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| ANIMAL ID                       | 0059 | 0058 | 0054 | 0057 | 0051 | 0052 | 0054 | 0053 | 0054 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 |
|                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

males  
(cont...)

|                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Thyroid Gland     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| C-cell, Adenoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| C-cell, Carcinoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

GENERAL BODY SYSTEM

|                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mediastinum, Schwannoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

GENITAL SYSTEM

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bulbourethral Gland               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ductus Deferens                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Epididymis                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Preputial Gland                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Prostate Adenoma                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |   |   |   |   |   |   |   |
| Seminal Vesicle                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testis Interstitial Cell, Adenoma | + | + |   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |   |   |   |   |   |   |

HEMATOPOIETIC SYSTEM

|             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node  | + |   |   |   |   |   | + | + | + |   |   |   |   | + | + | + | + |   |   |   |   |   |   |   | + | + |   |   |   | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically



Experiment Number: 20105 - 59

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

| DAY ON TEST     | HARLAN SPRAGUE DAWLEY RATS MALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males (cont...) |      |      |      |      |      |      |
|-----------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|------|------|------|------|------|------|
|                 | 0681                            | 0685 | 0687 | 0688 | 0691 | 0691 | 0674 | 0675 | 0675 | 0671 | 0675 | 0675 | 0679 | 0671 | 0672 | 0673 | 0673 | 0673 | 0673 | 0673 |           |                 | 0673 | 0671 | 0671 | 0671 | 0671 | 0673 |
| 0.0W/kg(GSM)chr | 0050                            | 0055 | 0058 | 0055 | 0051 | 0057 | 0052 | 0053 | 0056 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055      | 0055            | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 |

Lymph Node, Mandibular

+ +

Lymph Node, Mesenteric

+ +

Spleen Hemangiosarcoma

+ +

Thymus

+ +

INTEGUMENTARY SYSTEM

Mammary Gland Fibroadenoma

+ + + + + + M + + + + + + I + + + + + + + + + + + + X

Skin Basal Cell Adenoma

+ X

Keratoacanthoma

X

Squamous Cell Papilloma

X

Sebaceous Gland, Adenoma

X

Subcutaneous Tissue, Fibroma

X

Subcutaneous Tissue, Fibrosarcoma

Subcutaneous Tissue, Lipoma

Subcutaneous Tissue, Sarcoma

X

MUSCULOSKELETAL SYSTEM

Bone

+ +

Skeletal Muscle

+ +

NERVOUS SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>0.0W/kg(GSM)chr | DAY ON TEST |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | males<br>(cont...) |        |        |        |        |        |        |        |        |        |        |        |  |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
|   | 0681        | 0685   | 0687   | 0688   | 0691   | 0691   | 0704   | 0705   | 0705   | 0711   | 0715   | 0715   | 0719   | 0719   | 0722   | 0723   | 0730   | 0730   | 0733   | 0733   |                    | 0733   | 0733   | 0733   | 0733   | 0733   | 0733   | 0733   | 0733   | 0733   | 0733   |        |  |
|   | ANIMAL ID   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |                    |        |        |        |        |        |        |        |        |        |        |        |  |
| 000509  | 000508      | 000504 | 000507 | 000501 | 000501 | 000502 | 000506 | 000503 | 000504 | 000508 | 000505 | 000505 | 000505 | 000505 | 000505 | 000505 | 000505 | 000505 | 000505 | 000505 | 000505             | 000505 | 000505 | 000505 | 000505 | 000505 | 000505 | 000505 | 000505 | 000505 | 000505 | 000505 |  |

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Meninges, Granular Cell Tumor Benign |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Nerve Trigeminal                     | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Peripheral Nerve, Sciatic            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Peripheral Nerve, Tibial             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Spinal Cord, Cervical                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Spinal Cord, Lumbar                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Spinal Cord, Thoracic                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Trigeminal Ganglion                  | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + |   |  |

**RESPIRATORY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lung   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Alveolar/Bronchiolar Adenoma                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Nose   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Trachea  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |

**SPECIAL SENSES SYSTEM**

|     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| <p><b>HARLAN SPRAGUE DAWLEY RATS</b><br/><b>MALE</b><br/><b>0.0W/kg(GSM)chr</b></p> | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <p><b>males</b><br/><b>(cont...)</b></p> |
|   | ANIMAL ID   | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |  |
|   |             | 8 | 8 | 8 | 8 | 9 | 9 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |  |

Retrobulbar, Schwannoma Malignant, Metastatic, Uncertain Primary Site X

Harderian Gland +  
 Schwannoma Malignant, Metastatic, Uncertain Primary Site X

Lacrimal Gland +

**URINARY SYSTEM**

Kidney +  
 Lipoma X  
 Oncocytoma Benign X

Bilateral, Renal Tubule, Adenoma, Multiple  
 Bilateral, Renal Tubule, Carcinoma  
 Renal Tubule, Adenoma  
 Renal Tubule, Adenoma, Multiple

Urinary Bladder +

**SYSTEMIC LESIONS**

Multiple Organ +  
 Lymphoma Malignant  
 Mesothelioma Malignant

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                                |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>MALE</b> |                        | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|  |                        | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|  | <b>0.0W/kg(GSM)chr</b> | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 |
| ANIMAL ID                                  |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |                        | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
|  |                        | 0 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 6 | 9 | 2 | 4 | 4 | 5 | 9 | 9 |
|  |                        | 2 | 7 | 0 | 4 | 5 | 8 | 3 | 5 | 2 | 6 | 4 | 0 | 4 | 1 | 3 | 3 |
| <b>* TOTALS</b>                            |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Intestine Large, Cecum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 75 |
| Intestine Large, Colon  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 81 |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 83 |
| Intestine Small, Duodenum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 81 |
| Intestine Small, Ileum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 78 |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 73 |
| Adenocarcinoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Liver   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Mesentery   | + |   | + | + |   |   |   |   |   |   |   |   | + |   | + |   | 39 |
| Pancreas  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenoma   |   |   |   |   |   |   |   |   |   | X | X |   |   |   | X | X | 13 |
| Adenoma, Multiple   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 5  |
| Carcinoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Salivary Glands   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Sublingual Gland, Schwannoma Malignant,<br>Metastatic, Uncertain Primary Site |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Stomach, Forestomach  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Squamous Cell Papilloma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                            | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |
|--|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
|  | 7               | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |           |
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b> | 3               | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |           |
|  | 2               | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |           |
| <b>0.0W/kg(GSM)chr</b>                 | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |
|  | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |
| ANIMAL ID                              | 5               | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |           |
|  | 0               | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 6 | 9 | 2 | 4 | 4 | 5 | 9 |           |
|  | 2               | 7 | 0 | 4 | 5 | 8 | 3 | 5 | 2 | 6 | 4 | 0 | 4 | 1 | 3 |           |
|  | <b>* TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Stomach, Glandular                     | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>86</b> |
| <b>CARDIOVASCULAR SYSTEM</b>           |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Aorta                                  | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Blood Vessel                           |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Heart                                  | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| <b>ENDOCRINE SYSTEM</b>                |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Adrenal Cortex                         | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Adenoma                                |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Adrenal Medulla                        | +               | + | I | M | + | + | + | + | + | + | + | + | + | + | + | <b>88</b> |
| Pheochromocytoma Benign                |                 |   |   |   | X |   |   |   |   |   |   | X |   |   |   | <b>8</b>  |
| Pheochromocytoma Benign, Multiple      |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Pheochromocytoma Complex               |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Pheochromocytoma Malignant             |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Bilateral, Pheochromocytoma Benign     | X               |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Islets, Pancreatic                     | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Adenoma                                |                 |   |   |   |   |   |   | X |   |   |   |   |   |   |   | <b>5</b>  |
| Carcinoma                              |                 |   |   |   |   |   |   |   |   |   |   |   | X |   |   | <b>8</b>  |
| Parathyroid Gland                      | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>83</b> |
| Adenoma                                |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Pituitary Gland                        | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>89</b> |
| Pars Distalis, Adenoma                 |                 |   |   | X |   |   | X | X |   |   |   |   |   |   |   | <b>17</b> |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>0.0W/kg(GSM)chr | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|   | 0732        | 0732  | 0732  | 0732  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0734  | 0734  | 0734  | 0734  | 0734  |          |
| ANIMAL ID   | 00502       | 00504 | 00505 | 00506 | 00507 | 00508 | 00509 | 00510 | 00511 | 00512 | 00513 | 00514 | 00515 | 00516 | 00517 |          |
|   | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |          |
|   | 7           | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     |          |
|   | 3           | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     |          |
|   | 2           | 2     | 2     | 2     | 2     | 3     | 3     | 3     | 3     | 3     | 4     | 4     | 4     | 4     | 4     |          |

|                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Thyroid Gland     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| C-cell, Adenoma   |   |   |   |   |   |   |   | X | X | X |   |   |   |   | X | 8  |
| C-cell, Carcinoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |

GENERAL BODY SYSTEM

|                                   |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
|-----------------------------------|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Tissue NOS                        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  | 3 |
| Mediastinum, Schwannoma Malignant |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |

GENITAL SYSTEM

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bulbourethral Gland        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Ductus Deferens            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Epididymis                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Preputial Gland            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| Prostate                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Seminal Vesicle            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Testis                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Interstitial Cell, Adenoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |

HEMATOPOIETIC SYSTEM

|             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymph Node  | + |   | + |   | + |   |   |   |   | + |   |   |   | + |   | 25 |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>0.0W/kg(GSM)chr | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
|   | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>4      |          |
| ANIMAL ID   | 0<br>0<br>5<br>0<br>2 | 0<br>0<br>5<br>4<br>7 | 0<br>0<br>5<br>5<br>0 | 0<br>0<br>5<br>6<br>4 | 0<br>0<br>5<br>7<br>5 | 0<br>0<br>5<br>1<br>8 | 0<br>0<br>5<br>2<br>3 | 0<br>0<br>5<br>3<br>5 | 0<br>0<br>5<br>6<br>2 | 0<br>0<br>5<br>9<br>6 | 0<br>0<br>5<br>2<br>4 | 0<br>0<br>5<br>4<br>0 | 0<br>0<br>5<br>4<br>4 | 0<br>0<br>5<br>4<br>1 | 0<br>0<br>5<br>9<br>3 |          |
| Lymph Node, Mandibular                                | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 89                    |          |
| Lymph Node, Mesenteric                                | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Spleen  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Hemangiosarcoma                                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3                     |          |
| Thymus  | +                     | +                     | +                     | +                     | +                     | I                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 88                    |          |
| <b>INTEGUMENTARY SYSTEM</b>                           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Mammary Gland   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | M                     | +                     | +                     | 82                    |          |
| Fibroadenoma  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |          |
| Skin  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Basal Cell Adenoma                                    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Keratoacanthoma                                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 5                     |          |
| Squamous Cell Papilloma                               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |          |
| Sebaceous Gland, Adenoma                              |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Subcutaneous Tissue, Fibroma                          |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |          |
| Subcutaneous Tissue, Fibrosarcoma                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Subcutaneous Tissue, Lipoma                           |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       | X                     | 2                     |          |
| Subcutaneous Tissue, Sarcoma                          |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |          |
| <b>MUSCULOSKELETAL SYSTEM</b>                         |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Bone  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Skeletal Muscle                                       | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| <b>NERVOUS SYSTEM</b>                                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

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Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>0.0W/kg(GSM)chr | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|   | 0732        | 0732  | 0732  | 0732  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0734  | 0734  | 0734  | 0734  | 0734  |          |
| ANIMAL ID   | 00502       | 00504 | 00505 | 00506 | 00507 | 00508 | 00509 | 00510 | 00511 | 00512 | 00513 | 00514 | 00515 | 00516 | 00517 |          |

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Meninges, Granular Cell Tumor Benign |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | 1  |
| Nerve Trigeminal                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 84 |
| Peripheral Nerve, Sciatic            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Peripheral Nerve, Tibial             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| Spinal Cord, Cervical                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Spinal Cord, Lumbar                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Spinal Cord, Thoracic                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Trigeminal Ganglion                  | M | + | + | M | + | I | + | + | + | + | + | + | + | + | + | 75 |

RESPIRATORY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Lung   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Alveolar/Bronchiolar Adenoma                             |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 1  |
| Nose   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 | 1  |
| Trachea  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |

SPECIAL SENSES SYSTEM

|     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 85 |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

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+ .. Tissue examined microscopically  
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Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                                |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>MALE</b> |                        | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|  |                        | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|  | <b>0.0W/kg(GSM)chr</b> | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 |
| ANIMAL ID                                  |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |                        | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
|  |                        | 0 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 6 | 9 | 2 | 4 | 4 | 5 | 9 | 9 |
|  |                        | 2 | 7 | 0 | 4 | 5 | 8 | 3 | 5 | 2 | 6 | 4 | 0 | 4 | 1 | 3 | 3 |
| <b>* TOTALS</b>                            |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Retrolubar, Schwannoma Malignant,  
Metastatic, Uncertain Primary Site

2

Harderian Gland  
Schwannoma Malignant, Metastatic, Uncertain  
Primary Site

+ + + + + + + + + + + + + + +

90

2

Lacrimal Gland

2

**URINARY SYSTEM**

Kidney  
Lipoma  
Oncocytoma Benign  
Bilateral, Renal Tubule, Adenoma, Multiple  
Bilateral, Renal Tubule, Carcinoma  
Renal Tubule, Adenoma  
Renal Tubule, Adenoma, Multiple

+ + + + + + + + + + + + + + +

90

1

1

1

1

1

1

Urinary Bladder

+ + + + + + + + + + + + + + +

89

**SYSTEMIC LESIONS**

Multiple Organ  
Lymphoma Malignant  
Mesothelioma Malignant

+ + + + + + + + + + + + + + +

90

2

X

2

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
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|   |             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                    |
|---|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>1.5W/kg(GSM)chr | DAY ON TEST | 0<br>2<br>9<br>1      | 0<br>3<br>0<br>9      | 0<br>3<br>2<br>0      | 0<br>4<br>2<br>5      | 0<br>4<br>8<br>6      | 0<br>5<br>1<br>0      | 0<br>5<br>1<br>8      | 0<br>5<br>3<br>0      | 0<br>5<br>3<br>1      | 0<br>5<br>6<br>2      | 0<br>5<br>7<br>6      | 0<br>5<br>8<br>2      | 0<br>5<br>9<br>1      | 0<br>5<br>9<br>9      | 0<br>6<br>0<br>6      | 0<br>6<br>1<br>4      | 0<br>6<br>3<br>5      | 0<br>6<br>3<br>3      | 0<br>6<br>4<br>9      | 0<br>6<br>5<br>5      | 0<br>6<br>5<br>5      | 0<br>6<br>5<br>6      | 0<br>6<br>5<br>7      | males<br>(cont...) |
|   | ANIMAL ID   | 0<br>0<br>7<br>1<br>4 | 0<br>0<br>7<br>5<br>0 | 0<br>0<br>7<br>6<br>6 | 0<br>0<br>7<br>7<br>5 | 0<br>0<br>8<br>1<br>4 | 0<br>0<br>7<br>4<br>8 | 0<br>0<br>7<br>4<br>8 | 0<br>0<br>7<br>5<br>3 | 0<br>0<br>7<br>8<br>5 | 0<br>0<br>7<br>8<br>5 | 0<br>0<br>7<br>7<br>1 | 0<br>0<br>7<br>7<br>9 | 0<br>0<br>8<br>9<br>3 | 0<br>0<br>7<br>1<br>3 | 0<br>0<br>7<br>7<br>3 | 0<br>0<br>8<br>0<br>0 | 0<br>0<br>7<br>7<br>5 | 0<br>0<br>7<br>2<br>0 | 0<br>0<br>7<br>7<br>9 | 0<br>0<br>7<br>6<br>8 | 0<br>0<br>7<br>3<br>8 | 0<br>0<br>8<br>0<br>8 | 0<br>0<br>8<br>0<br>4 |                    |

ALIMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + |   |
| Intestine Large, Cecum                                | + | A | + | A | A | + | + | A | + | + | + | + | + | A | A | + | + | + | A | + | A | A | + | + | + |   |
| Intestine Large, Colon                                | + | + | + | A | + | + | + | A | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + |   |
| Intestine Large, Rectum                               | + | + | + | + | + | + | + | A | + | + | + | A | + | A | + | + | + | + | A | + | A | A | A | + | + |   |
| Intestine Small, Duodenum<br>Adenocarcinoma           | + | A | + | A | + | + | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + |   |
| Intestine Small, Ileum                                | + | A | + | A | + | + | + | A | + | + | + | + | + | A | A | A | + | + | + | A | + | A | A | A | + | + |
| Intestine Small, Jejunum<br>Adenocarcinoma            | + | A | + | + | + | + | + | A | + | + | + | + | + | A | A | A | + | A | + | A | + | + | A | + | + | + |
| Liver<br>Cholangioma<br>Hepatocellular Adenoma        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Mesentery   |   |   |   |   |   |   | + |   |   |   | + |   | + |   |   |   | + |   | + |   |   | + |   |   |   |   |
| Oral Mucosa<br>Squamous Cell Carcinoma                |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas<br>Adenoma<br>Adenoma, Multiple<br>Carcinoma | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>1.5W/kg(GSM)chr | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                       | ANIMAL ID | males<br>(cont...) |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|-----------|--------------------|
|   | 0<br>2<br>9<br>1 | 0<br>3<br>0<br>9 | 0<br>3<br>2<br>0 | 0<br>4<br>8<br>5 | 0<br>4<br>1<br>6 | 0<br>5<br>1<br>0 | 0<br>5<br>1<br>8 | 0<br>5<br>3<br>0 | 0<br>5<br>3<br>1 | 0<br>5<br>6<br>2 | 0<br>5<br>7<br>6 | 0<br>5<br>8<br>2 | 0<br>5<br>9<br>1 | 0<br>5<br>9<br>9 | 0<br>6<br>0<br>6 | 0<br>6<br>1<br>4 | 0<br>6<br>3<br>5 | 0<br>6<br>3<br>8 | 0<br>6<br>4<br>9 | 0<br>6<br>5<br>9 | 0<br>6<br>5<br>5 | 0<br>6<br>5<br>5 | 0<br>6<br>6<br>6 | 0<br>6<br>6<br>7      |           |                    |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0<br>0<br>7<br>1<br>4 |           |                    |

Salivary Glands  
Schwannoma Malignant

+ +

Stomach, Forestomach

+ +

Stomach, Glandular

+ + + + + + + + + + + + + A + + + + + + A + + + + +

Tooth

+

CARDIOVASCULAR SYSTEM

Aorta  
Chemodectoma Malignant

+ +

Blood Vessel

Heart  
Chemodectoma Malignant  
Endocardium, Schwannoma Malignant  
Myocardium, Schwannoma Malignant

+ + + + + + + + + + + + + + + + + + + X + + + + +

ENDOCRINE SYSTEM

Adrenal Cortex  
Adenoma  
Carcinoma

+ + + + + + + + + X + + + + + + + + + + + + + +

Adrenal Medulla  
Pheochromocytoma Benign  
Pheochromocytoma Malignant  
Bilateral, Pheochromocytoma Benign  
Bilateral, Pheochromocytoma Malignant

+ + + + + + + + + + + + X + X + + X + + + + + X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>1.5W/kg(GSM)chr | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | males<br>(cont...)    |                  |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|-----------------------|------------------|
|   | 0<br>2<br>9<br>1 | 0<br>3<br>0<br>9 | 0<br>3<br>2<br>0 | 0<br>4<br>2<br>5 | 0<br>4<br>8<br>6 | 0<br>5<br>1<br>0 | 0<br>5<br>1<br>8 | 0<br>5<br>3<br>0 | 0<br>5<br>3<br>1 | 0<br>5<br>6<br>2 | 0<br>5<br>7<br>6 | 0<br>5<br>8<br>2 | 0<br>5<br>9<br>1 | 0<br>5<br>9<br>9 | 0<br>6<br>0<br>6 | 0<br>6<br>1<br>4 | 0<br>6<br>1<br>5 | 0<br>6<br>3<br>6 | 0<br>6<br>3<br>8 | 0<br>6<br>3<br>9 | 0<br>6<br>4<br>9 | 0<br>6<br>5<br>5 | 0<br>6<br>5<br>5 | 0<br>6<br>5<br>6 |           |                       | 0<br>6<br>5<br>7 |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0         | 0<br>0<br>7<br>1<br>4 |                  |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Islets, Pancreatic                             | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Adenoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Adenoma, Multiple                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Carcinoma, Multiple                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Parathyroid Gland                              | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Adenoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pituitary Gland                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Pars Distalis, Adenoma                         |   | X |   |   | X |   |   | X |   |   | X |   | X |   |   |   |   | X |   |   |   | X | X | X |   |   |   |
| Thyroid Gland                                  | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Chemodectoma Malignant, Metastatic, Tissue Nos |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| C-cell, Adenoma                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| C-cell, Carcinoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Follicular Cell, Adenoma                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Follicular Cell, Adenoma, Multiple             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |

GENERAL BODY SYSTEM

|                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
|---------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Tissue NOS                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
| Chemodectoma Malignant          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + |
| Abdominal, Fat, Hemangiosarcoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |

GENITAL SYSTEM

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Epididymis      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>1.5W/kg(GSM)chr | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | males<br>(cont...) |                  |                       |                  |                  |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|-----------------------|------------------|------------------|
|   | 0<br>2<br>9<br>1 | 0<br>3<br>0<br>9 | 0<br>3<br>2<br>0 | 0<br>4<br>8<br>5 | 0<br>4<br>1<br>6 | 0<br>5<br>1<br>0 | 0<br>5<br>1<br>8 | 0<br>5<br>3<br>0 | 0<br>5<br>3<br>1 | 0<br>5<br>6<br>2 | 0<br>5<br>7<br>6 | 0<br>5<br>8<br>2 | 0<br>5<br>9<br>1 | 0<br>5<br>9<br>9 | 0<br>6<br>0<br>6 | 0<br>6<br>1<br>4 | 0<br>6<br>1<br>5 | 0<br>6<br>3<br>6 | 0<br>6<br>3<br>8 | 0<br>6<br>4<br>9 |           |                    | 0<br>6<br>5<br>5 | 0<br>6<br>5<br>5      | 0<br>6<br>5<br>6 | 0<br>6<br>5<br>7 |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0         | 0                  | 0                | 0<br>0<br>7<br>1<br>4 |                  |                  |
| Prostate Adenoma                                      | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                  | +                | +                     |                  | X                |
| Seminal Vesicle                                       | +                | +                | +                | A                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                  | +                | +                     |                  |                  |
| Testis Interstitial Cell, Adenoma                     | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                  | +                | +                     |                  |                  |

HEMATOPOIETIC SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Marrow  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lymph Node   | + |   |   |   |   |   |   |   |   | + |   | + |   |   |   |   |   |   |   | + |   | + | + |   |  |
| Lymph Node, Mandibular Schwannoma Malignant, Metastatic, Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lymph Node, Mesenteric   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Spleen   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Thymus Alveolar/Bronchiolar Carcinoma, Metastatic, Lung Thymoma Benign   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + |  |

INTEGUMENTARY SYSTEM

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Mammary Gland Fibroadenoma | + | + | + | M | + | M | + | + | M | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + |  |
| Skin                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
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Lab: IIT

| DAY ON TEST<br>HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>1.5W/kg(GSM)chr | ANIMAL ID |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | males<br>(cont...) |      |
|--|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|
|  | 0291      | 0309 | 0320 | 0422 | 0448 | 0511 | 0511 | 0513 | 0513 | 0516 | 0516 | 0522 | 0522 | 0526 | 0526 | 0533 | 0533 | 0533 | 0533 | 0533 | 0533 | 0533 | 0533 | 0533 | 0533 |                    | 0533 |
|  | 0         | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0                  | 0    |
|  | 0         | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0                  | 0    |
|  | 7         | 7    | 7    | 7    | 8    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 8    | 7    | 7    | 7    | 7    | 7    | 8    | 7    | 7    | 7    | 7    | 7    | 7                  | 7    |
|  | 1         | 5    | 6    | 7    | 1    | 4    | 4    | 5    | 8    | 5    | 3    | 9    | 2    | 1    | 9    | 1    | 3    | 7    | 0    | 7    | 2    | 6    | 3    | 8    | 0    | 0                  |      |
|  | 4         | 0    | 6    | 5    | 4    | 0    | 8    | 3    | 5    | 5    | 1    | 9    | 9    | 3    | 1    | 3    | 7    | 0    | 0    | 5    | 9    | 8    | 8    | 4    | 2    | 2                  |      |

Basal Cell Adenoma  
 Keratoacanthoma  
 Subcutaneous Tissue, Fibroma  
 Subcutaneous Tissue, Fibrosarcoma  
 Subcutaneous Tissue, Lipoma  
 Subcutaneous Tissue, Sarcoma

X

X X

MUSCULOSKELETAL SYSTEM

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

NERVOUS SYSTEM

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Glioma Malignant                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Meninges, Granular Cell Tumor Benign |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Nerve Trigeminal                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Sciatic            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Tibial             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Cervical                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Lumbar                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Thoracic                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trigeminal Ganglion                  | + | + | + | + | + | + | + | M | + | + | + | + | M | M | + | + | I | + | + | + | M | + | M | + | + |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>1.5W/kg(GSM)chr | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |
|   | ANIMAL ID   | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |   |   |
|   |             | 9 | 0 | 2 | 2 | 8 | 1 | 1 | 3 | 3 | 6 | 7 | 8 | 9 | 9 | 0 | 1 | 1 | 3 | 3 | 3 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |   |   |
|   |             | 1 | 9 | 0 | 5 | 6 | 0 | 8 | 0 | 1 | 2 | 6 | 2 | 1 | 9 | 6 | 4 | 5 | 6 | 8 | 9 | 9 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |   |
|   |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|   |             | 7 | 7 | 7 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 7 | 7 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |
|   |             | 1 | 5 | 6 | 7 | 1 | 4 | 4 | 5 | 8 | 5 | 3 | 9 | 2 | 1 | 9 | 1 | 3 | 0 | 7 | 2 | 6 | 3 | 8 | 0 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |   |
|   |             | 4 | 0 | 6 | 5 | 4 | 0 | 8 | 3 | 5 | 5 | 1 | 9 | 3 | 1 | 3 | 7 | 0 | 0 | 5 | 9 | 8 | 8 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

males  
(cont...)

RESPIRATORY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lung  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Alveolar/Bronchiolar Adenoma                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Alveolar/Bronchiolar Carcinoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Carcinoma, Metastatic, Uncertain Primary Site     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Schwannoma Malignant, Metastatic, Salivary Glands |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Nose  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Trachea   | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Chemodectoma Malignant, Metastatic, Tissue Nos    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

SPECIAL SENSES SYSTEM

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Eye             | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lacrimal Gland  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

URINARY SYSTEM

|                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Hemangioma            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lipoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Renal Tubule, Adenoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ureter                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

|   |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | males<br>(cont...) |
|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| DAY ON TEST   |  | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |                    |
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>1.5W/kg(GSM)chr |  | 9 | 0 | 2 | 2 | 8 | 1 | 1 | 3 | 3 | 6 | 7 | 8 | 9 | 9 | 9 | 9 | 0 | 1 | 1 | 3 | 3 | 3 | 4 | 5 | 5 | 5 | 5 | 5 |                    |
| ANIMAL ID   |  | 1 | 9 | 0 | 5 | 6 | 0 | 8 | 0 | 1 | 2 | 6 | 2 | 1 | 9 | 6 | 4 | 5 | 6 | 8 | 9 | 5 | 9 | 5 | 5 | 6 | 6 | 7 | 7 |                    |
|   |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                  |
|   |  | 7 | 7 | 7 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 7 | 7 | 7 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 7                  |
|   |  | 1 | 5 | 6 | 7 | 1 | 4 | 4 | 5 | 8 | 5 | 3 | 9 | 2 | 1 | 9 | 1 | 3 | 7 | 0 | 7 | 2 | 6 | 3 | 8 | 8 | 0 | 2 | 2 |                    |
|   |  | 4 | 0 | 6 | 5 | 4 | 0 | 8 | 3 | 5 | 5 | 1 | 9 | 9 | 3 | 1 | 3 | 7 | 0 | 0 | 5 | 9 | 8 | 8 | 4 | 2 | 2 | 2 | 2 |                    |
| Urinary Bladder                                       |  | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                    |
| <b>SYSTEMIC LESIONS</b>                               |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                    |
| Multiple Organ  |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                  |
| Lymphoma Malignant                                    |  |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |                    |
| Mesothelioma Malignant                                |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                    |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

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Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

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First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

|                                 |  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                    |
|---------------------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| DAY ON TEST                     |  | 0665  | 0670  | 0673  | 0678  | 0688  | 0687  | 0694  | 0696  | 0702  | 0703  | 0705  | 0707  | 0709  | 0713  | 0715  | 0717  | 0722  | 0723  | 0728  | 0730  | 0733  | 0733  | 0733  | 0733  | 0730  | males<br>(cont...) |
| HARLAN SPRAGUE DAWLEY RATS MALE |  | 65    | 70    | 73    | 78    | 88    | 87    | 94    | 96    | 02    | 03    | 05    | 07    | 09    | 13    | 15    | 17    | 22    | 23    | 28    | 30    | 33    | 33    | 33    | 33    | 30    |                    |
| 1.5W/kg(GSM)chr                 |  | 00795 | 00887 | 00912 | 00971 | 01072 | 01072 | 01127 | 01130 | 01151 | 01156 | 01174 | 01177 | 01177 | 01203 | 01206 | 01208 | 01208 | 01215 | 01218 | 01218 | 01233 | 01233 | 01233 | 01233 | 01230 |                    |
| ANIMAL ID                       |  | 7795  | 7787  | 7787  | 7771  | 7777  | 7772  | 7772  | 7773  | 7781  | 7777  | 7777  | 7777  | 7777  | 7788  | 7778  | 7788  | 7777  | 7788  | 7777  | 7777  | 7777  | 7777  | 7777  | 7777  | 7777  |                    |

ALIMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                                | A | A | A | + | + | + | + | A | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon                                | + | + | A | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum                               | + | + | + | + | + | A | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum<br>Adenocarcinoma           | + | + | + | A | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum                                | A | A | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum<br>Adenocarcinoma            | + | + | A | A | + | A | + | + | A | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver<br>Cholangioma<br>Hepatocellular Adenoma        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery   |   |   | + |   | + |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Oral Mucosa<br>Squamous Cell Carcinoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas<br>Adenoma<br>Adenoma, Multiple<br>Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   |   | X |   | X |   |   |   |   | X |   |   |   | X |   |   | X | X |   |   |   | X |   |   |   |   |
|   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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Experiment Number: 20105 - 59

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First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>1.5W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |      |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
|   | 0665        | 0670 | 0673 | 0678 | 0688 | 0677 | 0664 | 0666 | 0666 | 0672 | 0673 | 0675 | 0679 | 0673 | 0675 | 0678 | 0670 | 0673 | 0673 | 0678 | 0670 | 0673 | 0673 | 0670 |           |                    | 0670 |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00775              |      |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00777              |      |
|   | 7           | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 8    | 7    | 7    | 7    | 7    | 7    | 8    | 7    | 8    | 7    | 8    | 7    | 8    | 7    | 7    | 7    | 7         | 77777              |      |
|   | 9           | 9    | 8    | 1    | 7    | 7    | 2    | 3    | 1    | 5    | 7    | 3    | 2    | 3    | 0    | 4    | 0    | 5    | 1    | 8    | 2    | 3    | 3    | 6    | 7         | 985                |      |
|   | 5           | 8    | 7    | 2    | 1    | 2    | 7    | 0    | 5    | 6    | 4    | 2    | 6    | 5    | 6    | 2    | 5    | 7    | 1    | 3    | 4    | 4    | 6    | 7    | 6         | 587                |      |

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Salivary Glands      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Schwannoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Stomach, Glandular   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Tooth                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

CARDIOVASCULAR SYSTEM

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Chemodectoma Malignant            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Blood Vessel                      |   |   | + |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Heart                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Chemodectoma Malignant            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Endocardium, Schwannoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Myocardium, Schwannoma Malignant  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

ENDOCRINE SYSTEM

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Adenoma                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Carcinoma                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Adrenal Medulla                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Pheochromocytoma Benign               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Pheochromocytoma Malignant            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Bilateral, Pheochromocytoma Benign    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Bilateral, Pheochromocytoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>1.5W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
|   | 0665        | 0667 | 0667 | 0668 | 0668 | 0668 | 0669 | 0669 | 0670 | 0670 | 0670 | 0670 | 0670 | 0670 | 0670 | 0670 | 0670 | 0670 | 0670 | 0670 | 0670 | 0670 | 0670 | 0670 | 0670 |           |                    |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         |                    |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         |                    |
|   | 7           | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 8    | 7    | 7    | 7    | 7    | 7    | 7    | 8    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7         |                    |
|   | 9           | 9    | 8    | 1    | 7    | 7    | 2    | 3    | 1    | 5    | 7    | 3    | 2    | 3    | 0    | 4    | 0    | 5    | 1    | 8    | 2    | 3    | 3    | 6    | 7    | 7         |                    |
|   | 5           | 8    | 7    | 2    | 1    | 2    | 7    | 0    | 3    | 5    | 6    | 4    | 2    | 6    | 5    | 6    | 5    | 7    | 1    | 3    | 4    | 4    | 6    | 7    | 6    | 6         |                    |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Islets, Pancreatic Adenoma                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma, Multiple  |   |   | X |   |   |   | X |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma  |   |   |   |   |   |   |   |   | X |   |   |   |   |   | X |   | X |   | X |   |   |   | X |   |   |
| Carcinoma, Multiple  |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Parathyroid Gland Adenoma                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + |
| Pituitary Gland Pars Distalis, Adenoma                       | + | + | + | + | + | + | + | X |   | X |   |   |   | X |   |   |   |   | X | X |   | X |   |   |   |
| Thyroid Gland Chemodectoma Malignant, Metastatic, Tissue Nos | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Adenoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| C-cell, Carcinoma  |   |   |   | X |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |
| Follicular Cell, Adenoma                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |
| Follicular Cell, Adenoma, Multiple                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**GENERAL BODY SYSTEM**

|                                 |   |
|---------------------------------|---|
| Tissue NOS                      | + |
| Chemodectoma Malignant          | X |
| Abdominal, Fat, Hemangiosarcoma |   |

**GENITAL SYSTEM**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>1.5W/kg(GSM)chr | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | males<br>(cont...) |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
|   | 0665        | 0670  | 0673  | 0678  | 0688  | 0677  | 0664  | 0666  | 0666  | 0672  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  |                    |
| ANIMAL ID   | 00795       | 00798 | 00787 | 00712 | 00771 | 00772 | 00723 | 00731 | 00756 | 00745 | 00732 | 00726 | 00735 | 00706 | 00706 | 00704 | 00705 | 00707 | 00711 | 00718 | 00724 | 00734 | 00744 | 00746 |                    |
| Prostate Adenoma                                      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                    |
| Seminal Vesicle                                       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                    |
| Testis Interstitial Cell, Adenoma                     | +           | +     | +     | +     | +     | X     | +     | +     | +     | +     | +     | +     | +     | +     | X     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                    |

HEMATOPOIETIC SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node   |   |   |   |   | + |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mandibular Schwannoma Malignant, Metastatic, Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymus Alveolar/Bronchiolar Carcinoma, Metastatic, Lung Thymoma Benign   | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |

INTEGUMENTARY SYSTEM

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland Fibroadenoma | + | + | + | M | + | + | + | + | M | + | + | + | I | + | + | M | + | M | M | + | + | M | M | + | + |
|                            |   |   |   |   | X |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |
| Skin                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                            | 0                      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b> | 6                      | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| <b>1.5W/kg(GSM)chr</b>                 | 5                      | 7 | 7 | 8 | 8 | 8 | 9 | 9 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 |
| <b>ANIMAL ID</b>                       | 0                      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | 7                      | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 7 | 7 | 7 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|  | 9                      | 9 | 8 | 1 | 7 | 7 | 2 | 3 | 1 | 5 | 7 | 3 | 2 | 3 | 2 | 3 | 0 | 4 | 0 | 5 | 1 | 8 | 2 | 3 | 3 | 6 | 7 | 7 |
|  | 5                      | 8 | 7 | 2 | 1 | 2 | 7 | 0 | 5 | 6 | 4 | 2 | 6 | 5 | 6 | 2 | 5 | 7 | 1 | 3 | 4 | 4 | 4 | 6 | 7 | 6 | 6 | 6 |
|  | <b>males (cont...)</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

- Basal Cell Adenoma
- Keratoacanthoma
- Subcutaneous Tissue, Fibroma
- Subcutaneous Tissue, Fibrosarcoma
- Subcutaneous Tissue, Lipoma
- Subcutaneous Tissue, Sarcoma

X

X

**MUSCULOSKELETAL SYSTEM**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**NERVOUS SYSTEM**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Glioma Malignant                     |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Meninges, Granular Cell Tumor Benign |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |
| Nerve Trigeminal                     | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Sciatic            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Tibial             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Cervical                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Lumbar                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Thoracic                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trigeminal Ganglion                  | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | I | M | + | + | + | + | + | + | + | + | + | + | M |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>1.5W/kg(GSM)chr | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | males<br>(cont...) |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
|   | 0665        | 0670  | 0673  | 0678  | 0683  | 0687  | 0694  | 0696  | 0702  | 0703  | 0705  | 0707  | 0709  | 0713  | 0715  | 0717  | 0722  | 0723  | 0728  | 0730  | 0733  | 0738  | 0740  | 0743  | 0747  |       |                    |
|   | ANIMAL ID   | 00795 | 00788 | 00777 | 00771 | 00777 | 00777 | 00772 | 00731 | 00756 | 00764 | 00742 | 00726 | 00705 | 00706 | 00704 | 00708 | 00707 | 00705 | 00711 | 00713 | 00714 | 00718 | 00724 | 00734 | 00746 |                    |

RESPIRATORY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Adenoma                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Alveolar/Bronchiolar Carcinoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma, Metastatic, Uncertain Primary Site     |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Schwannoma Malignant, Metastatic, Salivary Glands |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |
| Nose  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea   | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Chemodectoma Malignant, Metastatic, Tissue Nos    | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

SPECIAL SENSES SYSTEM

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye             | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lacrimal Gland  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |

URINARY SYSTEM

|                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemangioma            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |
| Lipoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| Renal Tubule, Adenoma |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ureter                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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Experiment Number: 20105 - 59

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Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

|   |                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
|---|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>1.5W/kg(GSM)chr | DAY ON TEST     | 0665 | 0667 | 0668 | 0668 | 0668 | 0669 | 0669 | 0672 | 0673 | 0675 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | males<br>(cont...) |
|   | ANIMAL ID       | 0075 | 0078 | 0077 | 0077 | 0077 | 0077 | 0077 | 0078 | 0077 | 0077 | 0077 | 0077 | 0077 | 0078 | 0077 | 0078 | 0075 | 0077 | 0078 | 0077 | 0073 | 0073 | 0076 | 0076 |                    |
|   | Urinary Bladder | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                    |

SYSTEMIC LESIONS

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant     |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesothelioma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

| DAY ON TEST                            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                      |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------|--|
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b> | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7                      |  |
| <b>1.5W/kg(GSM)chr</b>                 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3                      |  |
|  | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3                      |  |
|  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                      |  |
| <b>ANIMAL ID</b>                       | 7 | 7 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 7 | 7 |                        |  |
|  | 8 | 9 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 1 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 1 | 1 |                        |  |
|  | 4 | 6 | 7 | 7 | 9 | 8 | 3 | 4 | 8 | 8 | 6 | 2 | 3 | 6 | 9 | 2 | 4 | 2 | 8 | 7 | 9 | 0 | 5 | <b>males (cont...)</b> |  |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum Adenocarcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum Adenocarcinoma  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver Cholangioma                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver Hepatocellular Adenoma             |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesentery                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | + |   |   |   |   |   |   |   |
| Oral Mucosa Squamous Cell Carcinoma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas Adenoma                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pancreas Adenoma, Multiple Carcinoma     | X |   |   | X | X |   |   |   |   |   |   |   | X | X | X |   |   | X | X |   |   | X |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                     |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                  |
|---------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| HARLAN SPRAGUE DAWLEY RATS MALE |  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7                  |
| 1.5W/kg(GSM)chr                 |  | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3                  |
| ANIMAL ID                       |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                  |
|                                 |  | 7 | 7 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 7 | 8 | 1 | 1 | 1 | 4                  |
|                                 |  | 8 | 9 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 1 | 4 | 5 | 5 | 6 | 6 | 7 | 8 | 1 | 1 | 1 | 1 | 4 | 3                  |
|                                 |  | 4 | 6 | 7 | 7 | 9 | 8 | 3 | 4 | 8 | 8 | 6 | 2 | 3 | 6 | 9 | 2 | 4 | 2 | 8 | 7 | 9 | 0 | 5 | 7 | 3 | 3                  |
|                                 |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | males<br>(cont...) |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Salivary Glands<br>Schwannoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Tooth                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

CARDIOVASCULAR SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta<br>Chemodectoma Malignant  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Blood Vessel   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Heart<br>Chemodectoma Malignant<br>Endocardium, Schwannoma Malignant<br>Myocardium, Schwannoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

ENDOCRINE SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex<br>Adenoma<br>Carcinoma  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla<br>Pheochromocytoma Benign<br>Pheochromocytoma Malignant<br>Bilateral, Pheochromocytoma Benign<br>Bilateral, Pheochromocytoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                                  |       |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------------|-------|-------|
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b><br><b>1.5W/kg(GSM)chr</b> | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | <b>males</b><br><b>(cont...)</b> |       |       |
|  | 0730        | 0730  | 0730  | 0730  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0733  | 0733  | 0733  |                                  | 0733  | 0733  |
|  | 00784       | 00796 | 00797 | 00807 | 00819 | 00828 | 00834 | 00844 | 00858 | 00878 | 00886 | 00929 | 00933 | 00936 | 00949 | 00952 | 00964 | 00972 | 00984 | 00987 | 00997 | 01009 | 01015 | 01017 |                                  | 01027 | 01037 |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Islets, Pancreatic Adenoma                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma, Multiple  |   |   |   | X |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |
| Carcinoma  | X |   |   |   |   |   |   |   |   |   | X |   |   |   |   | X |   |   |   |   |   |   |   |   | X |
| Carcinoma, Multiple  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Parathyroid Gland Adenoma                                    | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma  |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |
| Pituitary Gland Pars Distalis, Adenoma                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma  |   |   |   | X |   |   |   |   |   |   | X | X |   | X | X | X |   |   |   | X | X |   |   | X | X |
| Thyroid Gland Chemodectoma Malignant, Metastatic, Tissue Nos | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Adenoma  |   |   |   |   |   |   |   | X |   |   |   | X |   | X | X |   |   |   |   |   |   |   |   | X |   |
| C-cell, Carcinoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Follicular Cell, Adenoma                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Follicular Cell, Adenoma, Multiple                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

GENERAL BODY SYSTEM

|                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Chemodectoma Malignant          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Abdominal, Fat, Hemangiosarcoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

GENITAL SYSTEM

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
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Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>1.5W/kg(GSM)chr | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | males<br>(cont...) |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|
|   | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |           |                    |
|   | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |           |                    |
|   | 0           | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |   |           |                    |
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |           |                    |
|   | 7           | 7 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 7 | 7 | 7 |   |           |                    |
|   | 8           | 9 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 1 | 4 | 5 | 5 | 6 | 6 | 7 | 8 | 1 | 1 | 1 | 4 |   |           |                    |
|   | 4           | 6 | 7 | 7 | 9 | 8 | 3 | 4 | 8 | 8 | 6 | 2 | 3 | 6 |   |   |   |   |   |   | 0 | 5 | 7 | 3 |   |           |                    |

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Prostate Adenoma                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |
| Seminal Vesicle                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |
| Testis Interstitial Cell, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |

HEMATOPOIETIC SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Bone Marrow  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |
| Lymph Node   |   |   |   |   | + | + |   |   |   |   | + | + | + | + |   |   | + | + |   |   | + |   |   |   |  |  |
| Lymph Node, Mandibular Schwannoma Malignant, Metastatic, Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |
| Lymph Node, Mesenteric   | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + |  |  |
| Spleen   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |
| Thymus Alveolar/Bronchiolar Carcinoma, Metastatic, Lung Thymoma Benign   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + |  |  |
|  |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |  |  |

INTEGUMENTARY SYSTEM

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Mammary Gland Fibroadenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + |  |  |
| Skin                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |

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X .. Lesion present  
I .. Insufficient tissue

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CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | males<br>(cont...) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|
|   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |           |                    |
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>1.5W/kg(GSM)chr | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |           |                    |
|   | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |           |                    |
|   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                    |
|   | 7 | 7 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |           |                    |
|   | 8 | 9 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 1 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 1 | 1 | 1 | 1 | 4 |           |                    |
|   | 4 | 6 | 7 | 7 | 9 | 8 | 3 | 4 | 8 | 7 | 6 | 2 | 3 | 6 | 9 | 4 | 2 | 8 | 7 | 9 | 0 | 5 | 7 | 3 | 4 |   |           |                    |

|                                   |  |  |  |  |  |  |  |  |   |   |  |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |   |
|-----------------------------------|--|--|--|--|--|--|--|--|---|---|--|--|---|--|--|--|--|--|--|---|--|--|--|--|--|--|---|
| Basal Cell Adenoma                |  |  |  |  |  |  |  |  |   |   |  |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  | X |
| Keratoacanthoma                   |  |  |  |  |  |  |  |  |   |   |  |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  | X |
| Subcutaneous Tissue, Fibroma      |  |  |  |  |  |  |  |  |   |   |  |  |   |  |  |  |  |  |  | X |  |  |  |  |  |  |   |
| Subcutaneous Tissue, Fibrosarcoma |  |  |  |  |  |  |  |  |   | X |  |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |   |
| Subcutaneous Tissue, Lipoma       |  |  |  |  |  |  |  |  | X |   |  |  | X |  |  |  |  |  |  |   |  |  |  |  |  |  | X |
| Subcutaneous Tissue, Sarcoma      |  |  |  |  |  |  |  |  |   |   |  |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |   |

MUSCULOSKELETAL SYSTEM

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

NERVOUS SYSTEM

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Glioma Malignant                     |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Meninges, Granular Cell Tumor Benign |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nerve Trigeminal                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Sciatic            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Tibial             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + |
| Spinal Cord, Cervical                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Lumbar                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Thoracic                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trigeminal Ganglion                  | + | + | + | + | I | + | + | + | I | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST<br><b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>MALE</b><br>1.5W/kg(GSM)chr<br><br>ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|   | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|   | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   | 7 | 7 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|   | 8 | 9 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 9 | 1 | 4 | 5 | 5 | 6 | 6 | 7 | 8 | 1 | 1 | 1 | 1 | 4 |
|   | 4 | 6 | 7 | 7 | 9 | 8 | 3 | 4 | 8 | 8 | 6 | 2 | 3 | 6 | 9 | 2 | 4 | 2 | 8 | 7 | 9 | 0 | 5 | 7 | 3 |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

males (cont...)

**RESPIRATORY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Adenoma                      |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Alveolar/Bronchiolar Carcinoma                    |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma, Metastatic, Uncertain Primary Site     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Schwannoma Malignant, Metastatic, Salivary Glands |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nose  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Chemodectoma Malignant, Metastatic, Tissue Nos    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**SPECIAL SENSES SYSTEM**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lacrimal Gland  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**URINARY SYSTEM**

|                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemangioma            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lipoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Renal Tubule, Adenoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ureter                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                                |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>MALE</b> |                        | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|  |                        | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|  | <b>1.5W/kg(GSM)chr</b> | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| ANIMAL ID                                  |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |                        | 7 | 7 | 7 | 7 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 |
|  |                        | 4 | 5 | 6 | 7 | 9 | 0 | 1 | 2 | 5 | 6 | 6 | 8 | 8 | 0 | 1 | 1 |
|  |                        | 7 | 9 | 3 | 3 | 0 | 1 | 8 | 1 | 1 | 4 | 5 | 0 | 1 | 8 | 2 | 2 |
| <b>* TOTALS</b>                            |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ALIMENTARY SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 75 |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 83 |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 81 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 82 |
| Adenocarcinoma            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 76 |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 76 |
| Adenocarcinoma            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Cholangioma               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Hepatocellular Adenoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Mesentery                 |   | + |   | + |   |   |   |   |   | + |   |   |   |   |   |   | 19 |
| Oral Mucosa               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Squamous Cell Carcinoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Adenoma                   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 17 |
| Adenoma, Multiple         |   |   |   |   |   |   |   |   |   |   |   | X |   | X |   |   | 4  |
| Carcinoma                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                                | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--|
|  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |           |  |
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>MALE</b> | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |           |  |
|  | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |           |  |
| <b>1.5W/kg(GSM)chr</b>                     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |  |
|  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |  |
|  | 7 | 7 | 7 | 7 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 |           |  |
|  | 4 | 5 | 6 | 7 | 9 | 0 | 1 | 2 | 5 | 6 | 6 | 8 | 8 | 0 | 1 | 1 |           |  |
|  | 7 | 9 | 3 | 3 | 0 | 1 | 8 | 1 | 4 | 5 | 0 | 1 | 8 | 2 |   |   |           |  |
| <b>* TOTALS</b>                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  |

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Salivary Glands      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Schwannoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Stomach, Glandular   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>88</b> |
| Tooth                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

**CARDIOVASCULAR SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Aorta                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Chemodectoma Malignant            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Blood Vessel                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| Heart                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Chemodectoma Malignant            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Endocardium, Schwannoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Myocardium, Schwannoma Malignant  |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | <b>1</b>  |

**ENDOCRINE SYSTEM**

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Adrenal Cortex                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Adenoma                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>4</b>  |
| Carcinoma                             |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | <b>1</b>  |
| Adrenal Medulla                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Pheochromocytoma Benign               |   |   |   |   |   |   |   | X |   |   |   |   |   | X | X |   | <b>21</b> |
| Pheochromocytoma Malignant            |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | <b>1</b>  |
| Bilateral, Pheochromocytoma Benign    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| Bilateral, Pheochromocytoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>1.5W/kg(GSM)chr | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
|   | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>4      |          |
| ANIMAL ID   | 0<br>0<br>7<br>4<br>7 | 0<br>0<br>7<br>5<br>9 | 0<br>0<br>7<br>6<br>3 | 0<br>0<br>7<br>7<br>3 | 0<br>0<br>7<br>7<br>9 | 0<br>0<br>7<br>8<br>0 | 0<br>0<br>7<br>1<br>1 | 0<br>0<br>7<br>1<br>8 | 0<br>0<br>7<br>2<br>1 | 0<br>0<br>7<br>5<br>1 | 0<br>0<br>7<br>6<br>4 | 0<br>0<br>7<br>6<br>5 | 0<br>0<br>7<br>8<br>0 | 0<br>0<br>7<br>8<br>1 | 0<br>0<br>8<br>0<br>8 |          |
| Islets, Pancreatic                                    | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 89                    |          |
| Adenoma   |                       |                       |                       | X                     |                       |                       |                       |                       |                       | X                     |                       |                       | X                     |                       | 12                    |          |
| Adenoma, Multiple                                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |          |
| Carcinoma   | X                     | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 13                    |          |
| Carcinoma, Multiple                                   |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |          |
| Parathyroid Gland                                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 87                    |          |
| Adenoma   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Pituitary Gland                                       | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Pars Distalis, Adenoma                                |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       | X                     |                       | 28                    |          |
| Thyroid Gland   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 89                    |          |
| Chemodectoma Malignant, Metastatic, Tissue<br>Nos     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| C-cell, Adenoma                                       | X                     | X                     |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       | 9                     |          |
| C-cell, Carcinoma                                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |          |
| Follicular Cell, Adenoma                              |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Follicular Cell, Adenoma, Multiple                    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| <b>GENERAL BODY SYSTEM</b>                            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Tissue NOS  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | +                     | 4                     |          |
| Chemodectoma Malignant                                |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Abdominal, Fat, Hemangiosarcoma                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| <b>GENITAL SYSTEM</b>                                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Epididymis  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Preputial Gland                                       | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>1.5W/kg(GSM)chr                    | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | * TOTALS |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|
|  | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>4 | 0<br>7<br>3<br>4 | 0<br>7<br>3<br>4 | 0<br>7<br>3<br>4 | 0<br>7<br>3<br>4 | 0<br>7<br>3<br>4 | 0<br>7<br>3<br>4 | 0<br>7<br>3<br>4 | 0<br>7<br>3<br>4 |          |
| ANIMAL ID  | 0<br>7<br>4<br>7 | 0<br>7<br>5<br>9 | 0<br>7<br>6<br>3 | 0<br>7<br>7<br>3 | 0<br>7<br>7<br>9 | 0<br>7<br>7<br>0 | 0<br>8<br>1<br>1 | 0<br>7<br>1<br>8 | 0<br>7<br>0<br>2 | 0<br>7<br>1<br>5 | 0<br>7<br>6<br>6 | 0<br>7<br>8<br>8 | 0<br>7<br>8<br>1 | 0<br>8<br>0<br>8 | 0<br>8<br>1<br>2 |          |
| Prostate Adenoma   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 90<br>2          |          |
| Seminal Vesicle  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 89               |          |
| Testis Interstitial Cell, Adenoma  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 90<br>2          |          |
| <b>HEMATOPOIETIC SYSTEM</b>  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |          |
| Bone Marrow  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 90               |          |
| Lymph Node   |                  | +                |                  |                  |                  |                  |                  |                  |                  |                  | +                |                  |                  | +                | 22               |          |
| Lymph Node, Mandibular Schwannoma Malignant, Metastatic, Salivary Glands | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 90<br>1          |          |
| Lymph Node, Mesenteric   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 89               |          |
| Spleen   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 90               |          |
| Thymus Alveolar/Bronchiolar Carcinoma, Metastatic, Lung Thymoma Benign   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 86<br>1<br>2     |          |
| <b>INTEGUMENTARY SYSTEM</b>  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |          |
| Mammary Gland Fibroadenoma   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 76<br>3          |          |
| Skin   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 90               |          |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                            |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b> | <b>1.5W/kg(GSM)chr</b> | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|  |                        | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|  |                        | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|  |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID                              |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |                        | 7 | 7 | 7 | 7 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 |
|  |                        | 4 | 5 | 6 | 7 | 9 | 0 | 1 | 2 | 5 | 6 | 6 | 8 | 8 | 0 | 1 | 1 |
|  |                        | 7 | 9 | 3 | 3 | 0 | 1 | 8 | 1 | 4 | 5 | 0 | 1 | 8 | 2 | 2 | 2 |
| <b>* TOTALS</b>                        |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

|                                   |   |
|-----------------------------------|---|
| Basal Cell Adenoma                | 1 |
| Keratoacanthoma                   | 3 |
| Subcutaneous Tissue, Fibroma      | 5 |
| Subcutaneous Tissue, Fibrosarcoma | 3 |
| Subcutaneous Tissue, Lipoma       | 3 |
| Subcutaneous Tissue, Sarcoma      | 1 |

**MUSCULOSKELETAL SYSTEM**

|                 |                               |    |
|-----------------|-------------------------------|----|
| Bone            | + + + + + + + + + + + + + + + | 90 |
| Skeletal Muscle | + + + + + + + + + + + + + + + | 90 |

**NERVOUS SYSTEM**

|                                      |                               |    |
|--------------------------------------|-------------------------------|----|
| Brain                                | + + + + + + + + + + + + + + + | 90 |
| Glioma Malignant                     |                               | 3  |
| Meninges, Granular Cell Tumor Benign |                               | 3  |
| Nerve Trigeminal                     | + + + + + + + + + + + + + + + | 88 |
| Peripheral Nerve, Sciatic            | + + + + + + + + + + + + + + + | 90 |
| Peripheral Nerve, Tibial             | + + + + + + + + + + + + + + + | 89 |
| Spinal Cord, Cervical                | + + + + + + + + + + + + + + + | 90 |
| Spinal Cord, Lumbar                  | + + + + + + + + + + + + + + + | 90 |
| Spinal Cord, Thoracic                | + + + + + + + + + + + + + + + | 90 |
| Trigeminal Ganglion                  | I + + + + + + + M + + + + M + | 73 |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                                |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>MALE</b> |                        | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|  |                        | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|  | <b>1.5W/kg(GSM)chr</b> | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| ANIMAL ID                                  |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |                        | 7 | 7 | 7 | 7 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 |
|  |                        | 4 | 5 | 6 | 7 | 9 | 0 | 1 | 2 | 5 | 6 | 6 | 8 | 8 | 0 | 1 | 1 |
|  |                        | 7 | 9 | 3 | 3 | 0 | 1 | 8 | 1 | 4 | 5 | 0 | 1 | 8 | 2 | 2 | 2 |
| <b>* TOTALS</b>                            |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**RESPIRATORY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Lung  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Alveolar/Bronchiolar Adenoma                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Alveolar/Bronchiolar Carcinoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Carcinoma, Metastatic, Uncertain Primary Site     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Schwannoma Malignant, Metastatic, Salivary Glands |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Nose  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Trachea   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>88</b> |
| Chemodectoma Malignant, Metastatic, Tissue Nos    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

**SPECIAL SENSES SYSTEM**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Eye             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>86</b> |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Lacrimal Gland  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

**URINARY SYSTEM**

|                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Kidney                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Hemangioma            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Lipoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Renal Tubule, Adenoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Ureter                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

|                                   |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |
|-----------------------------------|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b> | DAY ON TEST            | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |           |
|                                   | <b>MALE</b>            | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |           |
|                                   | <b>1.5W/kg(GSM)chr</b> | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |           |
|                                   | ANIMAL ID              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |
|                                   |                        | 7 | 7 | 7 | 7 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 |           |
|                                   |                        | 4 | 5 | 6 | 7 | 9 | 0 | 1 | 2 | 5 | 6 | 6 | 8 | 8 | 0 | 1 |           |
|                                   |                        | 7 | 9 | 3 | 3 | 0 | 1 | 8 | 1 | 4 | 5 | 0 | 1 | 8 | 2 |   |           |
| <b>* TOTALS</b>                   |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Urinary Bladder                   |                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>89</b> |
| <b>SYSTEMIC LESIONS</b>           |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Multiple Organ                    |                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Lymphoma Malignant                |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>4</b>  |
| Mesothelioma Malignant            |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
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|                                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                    |
|---------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
|                                 | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                    |
|                                 |             | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |                    |
| HARLAN SPRAGUE DAWLEY RATS MALE |             | 5 | 0 | 0 | 2 | 2 | 3 | 3 | 5 | 7 | 7 | 9 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 6 | 6 |                    |
| 3.0W/kg(GSM)chr                 |             | 4 | 1 | 5 | 6 | 7 | 7 | 9 | 0 | 0 | 9 | 4 | 0 | 4 | 4 | 5 | 8 | 6 | 6 | 6 | 5 | 9 | 1 | 7 |                    |
|                                 | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                    |
|                                 |             | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |                    |
|                                 |             | 9 | 0 | 9 | 0 | 0 | 9 | 9 | 9 | 9 | 0 | 0 | 9 | 9 | 0 | 0 | 9 | 9 | 9 | 0 | 9 | 0 | 0 | 9 |                    |
|                                 |             | 5 | 1 | 9 | 2 | 1 | 8 | 6 | 7 | 2 | 1 | 2 | 3 | 8 | 2 | 0 | 6 | 2 | 6 | 1 | 3 | 1 | 0 | 7 |                    |
|                                 |             | 9 | 0 | 6 | 4 | 9 | 9 | 3 | 2 | 6 | 2 | 3 | 5 | 7 | 0 | 8 | 4 | 3 | 6 | 7 | 3 | 4 | 7 | 6 |                    |
|                                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                    |
|                                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | males<br>(cont...) |

ALIMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Large, Cecum  | + | + | + | A | A | + | + | + | A | + | + | + | + | + | A | + | A | + | + | A | + | + | A |   |
| Intestine Large, Colon<br>Serosa, Pheochromocytoma Malignant,<br>Metastatic, Adrenal Medulla    | + | + | + | A | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + |   |
| Intestine Large, Rectum   | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + |   |
| Intestine Small, Duodenum   | + | + | + | A | A | + | A | + | A | + | + | + | + | + | + | + | A | + | + | A | A | A | A |   |
| Intestine Small, Ileum  | + | + | + | A | A | + | + | + | A | + | + | + | + | + | A | + | A | + | + | A | + | A | + |   |
| Intestine Small, Jejunum<br>Adenocarcinoma  | + | + | + | A | A | + | A | + | A | + | + | + | + | + | A | + | A | + | A | A | A | A | A |   |
| Liver<br>Hepatocellular Carcinoma<br>Pheochromocytoma Malignant, Metastatic,<br>Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Mesentery<br>Pheochromocytoma Malignant, Metastatic,<br>Adrenal Medulla                         |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   | + | + | + |   |   |   | + | + |   |
| Pancreas<br>Adenoma<br>Adenoma, Multiple<br>Carcinoma   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
|  | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |
| HARLAN SPRAGUE DAWLEY RATS MALE<br>3.0W/kg(GSM)chr | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
|  | 4           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |                 |
|  | 5           | 0 | 0 | 2 | 2 | 3 | 3 | 5 | 7 | 7 | 9 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 6 | 6 |                 |
|  | 4           | 1 | 5 | 6 | 7 | 7 | 9 | 0 | 0 | 9 | 4 | 0 | 4 | 4 | 5 | 8 | 6 | 6 | 5 | 9 | 1 | 3 |                 |
|  | ANIMAL ID   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |
|  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
|  | 0           | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |                 |
|  | 9           | 0 | 9 | 0 | 0 | 9 | 9 | 9 | 9 | 0 | 0 | 9 | 9 | 0 | 0 | 9 | 9 | 9 | 0 | 9 | 0 | 9 |                 |
|  | 5           | 1 | 9 | 2 | 1 | 8 | 6 | 7 | 2 | 1 | 2 | 3 | 8 | 2 | 0 | 6 | 2 | 6 | 1 | 3 | 1 | 0 |                 |
|  | 9           | 0 | 6 | 4 | 9 | 9 | 3 | 2 | 6 | 2 | 3 | 5 | 7 | 0 | 8 | 4 | 3 | 6 | 7 | 3 | 4 | 7 |                 |
|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | males (cont...) |

Pheochromocytoma Malignant, Metastatic, Adrenal Medulla

Salivary Glands

Stomach, Forestomach

Stomach, Glandular

Tooth Odontoma

**CARDIOVASCULAR SYSTEM**

Aorta

Blood Vessel

Heart Endocardium, Schwannoma Malignant

**ENDOCRINE SYSTEM**

Adrenal Cortex Adenoma

Adrenal Medulla Pheochromocytoma Benign  
Pheochromocytoma Benign, Multiple  
Pheochromocytoma Malignant  
Bilateral, Pheochromocytoma Benign

Islets, Pancreatic

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>3.0W/kg(GSM)chr | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID |                    |   |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|---|
|   | 4           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |           |                    | 6 |
|   | 5           | 0 | 0 | 2 | 2 | 3 | 3 | 5 | 7 | 7 | 9 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 6 | 6 | 7 | 7 |           |                    | 7 |
| 4   | 1           | 5 | 6 | 7 | 7 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 4 | 5 | 8 | 6 | 6 | 5 | 9 | 1 | 3 | 7 | 7 |           |                    |   |
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                    |   |
|   | 0           | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 |           |                    |   |
|   | 9           | 0 | 9 | 0 | 0 | 9 | 9 | 9 | 9 | 0 | 0 | 9 | 9 | 0 | 0 | 9 | 9 | 9 | 0 | 9 | 0 | 0 | 9 | 9 | 0 |           |                    |   |
|   | 5           | 1 | 9 | 2 | 1 | 8 | 6 | 7 | 2 | 1 | 2 | 3 | 8 | 2 | 0 | 6 | 2 | 6 | 1 | 3 | 1 | 0 | 7 | 8 | 0 |           |                    |   |
|   | 9           | 0 | 6 | 4 | 9 | 9 | 3 | 2 | 6 | 2 | 3 | 5 | 7 | 0 | 8 | 4 | 2 | 6 | 7 | 3 | 4 | 7 | 6 | 4 | 2 |           | males<br>(cont...) |   |

Adenoma  
Adenoma, Multiple  
Carcinoma

X

X

Parathyroid Gland

+ +

Pituitary Gland

+ +

Sarcoma, Metastatic, Eye

X

Schwannoma Malignant, Metastatic, Trigeminal  
Ganglion

X

Pars Distalis, Adenoma

X

X

X

X

X

X

Pars Distalis, Adenoma, Multiple

Thyroid Gland

+ +

Bilateral, C-cell, Adenoma

C-cell, Adenoma

X

C-cell, Carcinoma

Follicular Cell, Adenoma

GENERAL BODY SYSTEM

Tissue NOS

Abdominal, Fat, Pheochromocytoma Malignant,  
Metastatic, Adrenal Medulla

GENITAL SYSTEM

Epididymis

+ +

Preputial Gland

+ +

Prostate

Adenoma

+ +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically



|  |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b><br><b>3.0W/kg(GSM)chr</b> | DAY ON TEST | 04 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 |
|  | ANIMAL ID   | 54 | 01 | 05 | 02 | 02 | 03 | 03 | 05 | 07 | 07 | 09 | 01 | 01 | 01 | 02 | 02 | 03 | 03 | 03 | 04 | 04 | 06 | 06 | 07 | 07 | 07 |
|  |             | 00 | 01 | 00 | 01 | 01 | 00 | 00 | 00 | 00 | 01 | 01 | 00 | 00 | 01 | 01 | 00 | 00 | 00 | 01 | 00 | 01 | 01 | 00 | 00 | 01 | 00 |

males  
(cont...)

Carcinoma

Seminal Vesicle

Testis

Interstitial Cell, Adenoma

**HEMATOPOIETIC SYSTEM**

Bone Marrow

Lymph Node

Mediastinal, Pheochromocytoma Malignant, Metastatic, Adrenal Medulla

Pancreatic, Pheochromocytoma Malignant, Metastatic, Adrenal Medulla

Lymph Node, Mandibular

Lymph Node, Mesenteric

Spleen

Thymus

Thymoma Benign

**INTEGUMENTARY SYSTEM**

Mammary Gland

Adenocarcinoma

Fibroadenoma

Skin

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                            |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>MALE</b> | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                          |
|  | ANIMAL ID   | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6                          |
| <b>3.0W/kg(GSM)chr</b>                     |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                          |
|  |             | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0                          |
|  |             | 9 | 0 | 9 | 0 | 0 | 9 | 9 | 9 | 9 | 0 | 0 | 9 | 9 | 0 | 0 | 9 | 9 | 9 | 0 | 9 | 0 | 0 | 9 | 9 | 0 | 0                          |
|  |             | 5 | 1 | 9 | 2 | 1 | 8 | 6 | 7 | 2 | 1 | 2 | 3 | 8 | 2 | 0 | 6 | 2 | 6 | 1 | 3 | 1 | 0 | 7 | 8 | 0 | 0                          |
|  |             | 9 | 0 | 6 | 4 | 9 | 9 | 3 | 2 | 6 | 2 | 3 | 5 | 7 | 0 | 8 | 4 | 3 | 6 | 7 | 3 | 4 | 7 | 6 | 4 | 2 |                            |
|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>males<br/>(cont...)</b> |

- Basal Cell Carcinoma
- Keratoacanthoma
- Neural Crest Tumor
- Sarcoma
- Subcutaneous Tissue, Fibroma
- Subcutaneous Tissue, Fibrosarcoma
- Subcutaneous Tissue, Hemangiopericytoma
- Subcutaneous Tissue, Lipoma
- Subcutaneous Tissue, Malignant Fibrous Histiocytoma
- Subcutaneous Tissue, Myxosarcoma

X

X

X

MUSCULOSKELETAL SYSTEM

Bone +

Skeletal Muscle +

NERVOUS SYSTEM

Brain +

Glioma Malignant Sarcoma, Metastatic, Eye Schwannoma Malignant, Metastatic, Trigeminal Ganglion

X

X

X

Meninges, Granular Cell Tumor Benign  
Meninges, Granular Cell Tumor Malignant

Nerve Trigeminal Schwannoma Malignant, Metastatic, Trigeminal Ganglion + + + + + + + + + + + + + + + | + + + + + + + + + +

X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

| DAY ON TEST  | HARLAN SPRAGUE DAWLEY RATS MALE |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ANIMAL ID | males (cont...) |  |
|--|---------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|-----------------|--|
|  | 04                              | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |           |                 |  |
| 3.0W/kg(GSM)chr  | 0                               | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0099      |                 |  |
| Peripheral Nerve, Sciatic  | +                               | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  |           |                 |  |
| Peripheral Nerve, Tibial   | +                               | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  |           |                 |  |
| Spinal Cord, Cervical  | +                               | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  |           |                 |  |
| Spinal Cord, Lumbar  | +                               | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  |           |                 |  |
| Spinal Cord, Thoracic  | +                               | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  |           |                 |  |
| Trigeminal Ganglion  | +                               | +  | +  | +  | +  | M  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  |           | M               |  |
| Sarcoma, Metastatic, Eye   |                                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           | X               |  |
| Schwannoma Malignant   |                                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           | X               |  |
| <b>RESPIRATORY SYSTEM</b>  |                                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |                 |  |
| Lung   | +                               | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  |           |                 |  |
| Nose   | +                               | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  |           |                 |  |
| Sarcoma, Metastatic, Eye   |                                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           | X               |  |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion              |                                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           | X               |  |
| Trachea  | +                               | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | A  | +  | +  | +  | +  | +  | +  |           |                 |  |
| <b>SPECIAL SENSES SYSTEM</b>                                       |                                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |                 |  |
| Eye  | +                               | +  | +  | +  | A  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | A  | +  | +  | +  | +  | +  | +  |           |                 |  |
| Choroid, Schwannoma Malignant                                      |                                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |                 |  |
| Retrobulbar, Sarcoma   |                                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           | X               |  |
| Retrobulbar, Schwannoma Malignant, Metastatic, Trigeminal Ganglion |                                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           | X               |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

|                                 |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST                     |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HARLAN SPRAGUE DAWLEY RATS MALE |  | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 3.0W/kg(GSM)chr                 |  | 5 | 0 | 0 | 2 | 2 | 3 | 3 | 5 | 7 | 7 | 9 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 6 | 6 |
| ANIMAL ID                       |  | 4 | 1 | 5 | 6 | 7 | 7 | 9 | 0 | 0 | 9 | 4 | 0 | 4 | 4 | 5 | 8 | 6 | 6 | 6 | 5 | 9 | 1 | 3 |
|                                 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                 |  | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
|                                 |  | 9 | 0 | 9 | 0 | 0 | 9 | 9 | 9 | 0 | 9 | 9 | 0 | 9 | 9 | 0 | 9 | 9 | 9 | 0 | 9 | 0 | 9 | 9 |
|                                 |  | 5 | 1 | 9 | 2 | 1 | 8 | 6 | 7 | 2 | 1 | 2 | 3 | 8 | 2 | 0 | 6 | 2 | 6 | 1 | 3 | 1 | 0 | 7 |
|                                 |  | 9 | 0 | 6 | 4 | 9 | 9 | 3 | 2 | 6 | 2 | 3 | 5 | 7 | 0 | 8 | 4 | 2 | 3 | 6 | 7 | 3 | 4 | 6 |
| <b>males (cont...)</b>          |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Retrolubar, Schwannoma Malignant, Metastatic, Uncertain Primary Site

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Harderian Gland  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Lacrimal Gland

URINARY SYSTEM

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Oncocytoma Benign                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Sarcoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Renal Tubule, Adenoma              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Urethra                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Transitional Epithelium, Papilloma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Urinary Bladder                    | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Carcinoma, Metastatic, Prostate    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

SYSTEMIC LESIONS

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant     |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | X |   |   |   |   |
| Mesothelioma Malignant |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

| DAY ON TEST                        |                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE |                 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|                                    |                 | 9 | 9 | 9 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                                    | 3.0W/kg(GSM)chr | 3 | 9 | 9 | 0 | 8 | 9 | 6 | 7 | 7 | 8 | 2 | 2 | 4 | 7 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID                          |                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                    |                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|                                    |                 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 9 | 9 | 9 | 0 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
|                                    |                 | 6 | 4 | 5 | 7 | 6 | 2 | 5 | 4 | 1 | 5 | 6 | 8 | 0 | 7 | 6 | 3 | 4 | 4 | 5 | 5 | 7 | 8 | 8 | 9 | 2 |   |
|                                    |                 | 2 | 7 | 4 | 1 | 8 | 4 | 3 | 1 | 3 | 1 | 5 | 8 | 0 | 0 | 0 | 9 | 4 | 6 | 0 | 7 | 3 | 9 | 0 | 8 | 1 |   |
| <b>males (cont...)</b>             |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ALIMENTARY SYSTEM**

|  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus  |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum   |  | A | + | + | + | A | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon   |  | A | + | + | + | A | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Serosa, Pheochromocytoma Malignant,<br>Metastatic, Adrenal Medulla |  |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Large, Rectum  |  | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum  |  | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum   |  | A | + | + | A | + | + | + | A | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum   |  | A | + | + | A | A | + | A | + | A | + | + | A | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Liver  |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Carcinoma   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pheochromocytoma Malignant, Metastatic,<br>Adrenal Medulla         |  |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesentery  |  | + |   |   |   |   |   | + | + | + |   |   | + | + |   | + |   |   |   |   |   |   | + |   |   |   |   |   |   |
| Pheochromocytoma Malignant, Metastatic,<br>Adrenal Medulla         |  |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas   |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma  |  |   |   |   |   |   |   | X |   |   | X |   | X |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |
| Adenoma, Multiple  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>3.0W/kg(GSM)chr |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | males<br>(cont...) |      |      |      |
|-------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|------|------|
|             | ANIMAL ID   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |      |      |      |
| 0693        | 0699  | 0699 | 0700 | 0708 | 0709 | 0706 | 0707 | 0701 | 0701 | 0701 | 0701 | 0702 | 0702 | 0704 | 0707 | 0708 | 0700 | 0700 | 0700 | 0703 | 0703 | 0703 | 0703 | 0703 | 0703               | 0703 | 0703 |      |
| 0096        | 0099  | 0099 | 0099 | 0099 | 0096 | 0094 | 0093 | 0091 | 0090 | 0090 | 0091 | 0099 | 0099 | 0090 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099 | 0099               | 0099 | 0099 | 0099 |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pheochromocytoma Malignant, Metastatic, Adrenal Medulla | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Salivary Glands   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular                                      | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Tooth Odontoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

CARDIOVASCULAR SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Blood Vessel                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Heart Endocardium, Schwannoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

ENDOCRINE SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex Adenoma  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |
| Adrenal Medulla Pheochromocytoma Benign                       | + | + | + | + | X | X | X |   | X | + | + | + | + |   | X | X | X | X |   | + | + | + | + | X | + | + |   |
| Pheochromocytoma Benign, Multiple                             |   |   |   |   |   |   |   |   | X |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pheochromocytoma Malignant Bilateral, Pheochromocytoma Benign |   |   |   | X |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |
| Islets, Pancreatic  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018  
 Time Report Requested: 11:58:55  
 First Dose M/F: 09/16/12 / 09/16/12  
 Lab: IIT

| DAY ON TEST | 0  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |
|-------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
|             | HARLAN SPRAGUE DAWLEY RATS MALE<br>3.0W/kg(GSM)chr | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   | 7               |
| ANIMAL ID   | 9  | 9 | 9 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | males (cont...) |
|             | 3  | 9 | 9 | 0 | 8 | 9 | 6 | 7 | 7 | 8 | 2 | 2 | 4 | 7 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | males (cont...) |
|             | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | males (cont...) |
|             | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | males (cont...) |
|             | 9  | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 9 | 9 | 9 | 0 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | males (cont...) |
|             | 6  | 4 | 5 | 7 | 6 | 2 | 5 | 4 | 1 | 5 | 6 | 8 | 0 | 7 | 6 | 3 | 4 | 4 | 5 | 5 | 7 | 7 | 8 | 9 | 2 | males (cont...) |
|             | 2  | 7 | 4 | 1 | 8 | 4 | 3 | 1 | 3 | 1 | 5 | 8 | 0 | 0 | 0 | 9 | 4 | 6 | 0 | 7 | 3 | 9 | 0 | 8 | 1 | males (cont...) |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adenoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |  |
| Adenoma, Multiple Carcinoma                           |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |  |
| Parathyroid Gland                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Pituitary Gland                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Sarcoma, Metastatic, Eye                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Pars Distalis, Adenoma                                |   |   |   |   | X |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   | X |   |   |   |   |  |
| Pars Distalis, Adenoma, Multiple                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Thyroid Gland   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Bilateral, C-cell, Adenoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| C-cell, Adenoma                                       |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |  |
| C-cell, Carcinoma                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Follicular Cell, Adenoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

**GENERAL BODY SYSTEM**

|   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS  |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Abdominal, Fat, Pheochromocytoma Malignant, Metastatic, Adrenal Medulla |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**GENITAL SYSTEM**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Epididymis      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Prostate        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Adenoma         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST     | HARLAN SPRAGUE DAWLEY RATS MALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males (cont...) |      |
|-----------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|------|
|                 | 0693                            | 0699 | 0699 | 0700 | 0700 | 0700 | 0701 | 0701 | 0701 | 0701 | 0702 | 0702 | 0704 | 0707 | 0708 | 0708 | 0708 | 0708 | 0708 | 0708 | 0708 | 0708 | 0708 | 0708 |           |                 | 0708 |
| 3.0W/kg(GSM)chr | 0                               | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00962           |      |

Carcinoma

X

Seminal Vesicle

+ +

Testis

+ +

Interstitial Cell, Adenoma

X X

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

Lymph Node

+ +

Mediastinal, Pheochromocytoma Malignant, Metastatic, Adrenal Medulla

X

Pancreatic, Pheochromocytoma Malignant, Metastatic, Adrenal Medulla

X

Lymph Node, Mandibular

+ +

Lymph Node, Mesenteric

A + + + A +

Spleen

+ +

Thymus

+ | +

Thymoma Benign

INTEGUMENTARY SYSTEM

Mammary Gland

+ + + + + + + + M + + + + M M + + + + + + + + + +

Adenocarcinoma

Fibroadenoma

Skin

+ +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
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Experiment Number: 20105 - 59  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018  
 Time Report Requested: 11:58:55  
 First Dose M/F: 09/16/12 / 09/16/12  
 Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE 3.0W/kg(GSM)chr |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males (cont...) |
|-------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
|             | 0693  | 0669 | 0699 | 0700 | 0708 | 0709 | 0706 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 |           |                 |
| ANIMAL ID   | 0069  | 0069 | 0069 | 0069 | 0069 | 0069 | 0069 | 0069 | 0069 | 0069 | 0069 | 0069 | 0069 | 0069 | 0069 | 0069 | 0069 | 0069 | 0069 | 0069 | 0069 | 0069 | 0069      | males (cont...) |

|   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|
| Basal Cell Carcinoma                                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |
| Keratoacanthoma                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |   |   |
| Neural Crest Tumor                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |   |   |
| Sarcoma   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |
| Subcutaneous Tissue, Fibroma                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   | X |   |
| Subcutaneous Tissue, Fibrosarcoma                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |
| Subcutaneous Tissue, Hemangiopericytoma             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   | X |
| Subcutaneous Tissue, Lipoma                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |
| Subcutaneous Tissue, Malignant Fibrous Histiocytoma |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |
| Subcutaneous Tissue, Myxosarcoma                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |

MUSCULOSKELETAL SYSTEM

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

NERVOUS SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Glioma Malignant                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Sarcoma, Metastatic, Eye                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Meninges, Granular Cell Tumor Benign                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Meninges, Granular Cell Tumor Malignant               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Nerve Trigeminal                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>3.0W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
|   | 0693        | 0699 | 0699 | 0700 | 0708 | 0709 | 0706 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 |           |                    |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 00962     |                    |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Peripheral Nerve, Sciatic   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Tibial  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Cervical   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Lumbar   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Thoracic   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trigeminal Ganglion<br>Sarcoma, Metastatic, Eye<br>Schwannoma Malignant | M | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | M | + | M | + | + | + |

RESPIRATORY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nose<br>Sarcoma, Metastatic, Eye<br>Schwannoma Malignant, Metastatic, Trigeminal<br>Ganglion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea  | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye<br>Choroid, Schwannoma Malignant<br>Retrolubar, Sarcoma<br>Retrolubar, Schwannoma Malignant,<br>Metastatic, Trigeminal Ganglion | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

| DAY ON TEST                            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b> | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| <b>3.0W/kg(GSM)chr</b>                 | 9 | 9 | 9 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| <b>ANIMAL ID</b>                       | 3 | 9 | 9 | 0 | 0 | 0 | 6 | 7 | 7 | 8 | 2 | 2 | 4 | 7 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 9 | 9 | 9 | 0 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 |
|  | 6 | 4 | 5 | 7 | 6 | 2 | 5 | 4 | 1 | 5 | 6 | 8 | 0 | 7 | 6 | 3 | 4 | 4 | 4 | 5 | 5 | 7 | 7 | 8 | 9 | 9 | 2 | 8 | 1 |   |
|  | 2 | 7 | 4 | 1 | 8 | 4 | 3 | 1 | 3 | 1 | 5 | 8 | 0 | 0 | 0 | 9 | 4 | 6 | 0 | 7 | 3 | 9 | 0 | 8 | 8 | 1 |   |   |   |   |

males  
(cont...)

Retrobulbar, Schwannoma Malignant, Metastatic, Uncertain Primary Site

X

Harderian Gland  
Schwannoma Malignant  
Schwannoma Malignant, Metastatic, Trigeminal Ganglion  
Schwannoma Malignant, Metastatic, Uncertain Primary Site

+ +

X

X

Lacrimal Gland

**URINARY SYSTEM**

Kidney  
Oncocytoma Benign  
Sarcoma  
Renal Tubule, Adenoma

+ +

X

X

X

Urethra  
Transitional Epithelium, Papilloma

+

X

Urinary Bladder  
Carcinoma, Metastatic, Prostate

A + + + A + + + + + + + + + + + + + + + + + + +

X

**SYSTEMIC LESIONS**

Multiple Organ  
Lymphoma Malignant  
Mesothelioma Malignant

+ +

X

X

X

X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

|                                    |  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                    |
|------------------------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| DAY ON TEST                        |  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | males<br>(cont...) |
| HARLAN SPRAGUE DAWLEY RATS<br>MALE |  | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    | 31    |                    |
| 3.0W/kg(GSM)chr                    |  | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 |                    |
| ANIMAL ID                          |  | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 |                    |

ALIMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon<br>Serosa, Pheochromocytoma Malignant,<br>Metastatic, Adrenal Medulla    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum<br>Adenocarcinoma  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver<br>Hepatocellular Carcinoma<br>Pheochromocytoma Malignant, Metastatic,<br>Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery<br>Pheochromocytoma Malignant, Metastatic,<br>Adrenal Medulla                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |
| Pancreas<br>Adenoma<br>Adenoma, Multiple<br>Carcinoma   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   | X |   |   |   |   |   | X |   |   | X |   | X |   | X |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   | X |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                                |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>MALE</b> |                        | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|  | <b>3.0W/kg(GSM)chr</b> | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|  |                        | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|  |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |                        | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|  |                        | 3 | 4 | 5 | 7 | 7 | 8 | 9 | 0 | 1 | 2 | 2 | 3 | 4 | 7 | 7 | 9 | 9 | 0 | 1 | 3 | 3 | 4 | 6 | 8 | 8 | 8 | 8 |
|  |                        | 0 | 5 | 5 | 5 | 8 | 3 | 9 | 9 | 1 | 2 | 8 | 1 | 3 | 4 | 7 | 3 | 4 | 5 | 8 | 2 | 8 | 2 | 1 | 1 | 1 | 1 | 1 |

males  
(cont...)

Pheochromocytoma Malignant, Metastatic, Adrenal Medulla

Salivary Glands

Stomach, Forestomach

Stomach, Glandular

Tooth  
Odontoma

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |

CARDIOVASCULAR SYSTEM

Aorta

Blood Vessel

Heart  
Endocardium, Schwannoma Malignant

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

ENDOCRINE SYSTEM

Adrenal Cortex  
Adenoma

Adrenal Medulla  
Pheochromocytoma Benign  
Pheochromocytoma Benign, Multiple  
Pheochromocytoma Malignant  
Bilateral, Pheochromocytoma Benign

Islets, Pancreatic

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>3.0W/kg(GSM)chr | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | males<br>(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
|   | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      |                       |                    |
| ANIMAL ID   | 0<br>0<br>9<br>3<br>0 | 0<br>0<br>9<br>4<br>5 | 0<br>0<br>9<br>5<br>5 | 0<br>0<br>9<br>7<br>5 | 0<br>0<br>9<br>7<br>8 | 0<br>0<br>9<br>7<br>3 | 0<br>0<br>9<br>8<br>3 | 0<br>0<br>9<br>9<br>9 | 0<br>0<br>9<br>0<br>9 | 0<br>0<br>9<br>1<br>1 | 0<br>0<br>9<br>0<br>2 | 0<br>0<br>9<br>1<br>2 | 0<br>0<br>9<br>1<br>8 | 0<br>0<br>9<br>0<br>3 | 0<br>0<br>9<br>0<br>4 | 0<br>0<br>9<br>0<br>7 | 0<br>0<br>9<br>0<br>4 | 0<br>0<br>9<br>0<br>5 | 0<br>0<br>9<br>0<br>2 | 0<br>0<br>9<br>0<br>3 | 0<br>0<br>9<br>0<br>8 | 0<br>0<br>9<br>0<br>4 | 0<br>0<br>9<br>0<br>1 | 0<br>0<br>9<br>0<br>3 | 0<br>0<br>9<br>0<br>8 |                    |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adenoma  | X |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | X | X | X |   |   |   |   |   |  |
| Adenoma, Multiple<br>Carcinoma                           |   |   |   |   |   |   |   |   |   |   |   |   | X | X | X |   |   |   |   |   | X |   |   |   |   |  |
| Parathyroid Gland  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | M | + | + | + | M | + | + | + |  |
| Pituitary Gland  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Sarcoma, Metastatic, Eye                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Schwannoma Malignant, Metastatic, Trigeminal<br>Ganglion |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Pars Distalis, Adenoma                                   | X |   |   |   | X | X |   | X |   |   |   |   |   | X | X | X |   |   |   |   | X |   |   |   | X |  |
| Pars Distalis, Adenoma, Multiple                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Thyroid Gland  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Bilateral, C-cell, Adenoma                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |  |
| C-cell, Adenoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   | X |  |
| C-cell, Carcinoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |  |
| Follicular Cell, Adenoma                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

GENERAL BODY SYSTEM

|  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS   |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Abdominal, Fat, Pheochromocytoma Malignant,<br>Metastatic, Adrenal Medulla |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

GENITAL SYSTEM

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Prostate        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma         |   |   |   |   | X |   |   |   | X |   |   |   | X |   |   |   |   |   |   |   |   |   | X | X |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>3.0W/kg(GSM)chr | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | males<br>(cont...) |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
|   | 0731        | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  |                    |
| ANIMAL ID   | 00930       | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 | 00930 |                    |
| Carcinoma   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                    |
| Seminal Vesicle                                       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                    |
| Testis<br>Interstitial Cell, Adenoma                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                    |

HEMATOPOIETIC SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node<br>Mediastinal, Pheochromocytoma Malignant,<br>Metastatic, Adrenal Medulla<br>Pancreatic, Pheochromocytoma Malignant,<br>Metastatic, Adrenal Medulla |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mandibular  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymus<br>Thymoma Benign  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

INTEGUMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland<br>Adenocarcinoma<br>Fibroadenoma | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skin  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ANIMAL ID | males (cont...) |   |
|-------------|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------------|---|
|             | 0                               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                 | 0 |
| 7           | 7                               | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7         | 0               |   |
| 3           | 3                               | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3         | 0               |   |
| 1           | 1                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3         | 0               |   |
|             | 0                               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         | 0               |   |
|             | 0                               | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0         | 0               |   |
|             | 9                               | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 9 | 9 | 9 | 9         | 9               |   |
|             | 3                               | 4 | 5 | 7 | 7 | 8 | 9 | 0 | 1 | 2 | 2 | 3 | 4 | 7 | 7 | 9 | 9 | 9 | 0 | 1 | 3 | 3 | 4 | 6 | 8         | 9               |   |
|             | 0                               | 5 | 5 | 5 | 8 | 3 | 9 | 9 | 1 | 2 | 8 | 1 | 3 | 4 | 7 | 3 | 4 | 7 | 4 | 5 | 2 | 8 | 2 | 1 | 1         | 9               |   |

Basal Cell Carcinoma

Keratoacanthoma

Neural Crest Tumor

Sarcoma

Subcutaneous Tissue, Fibroma

Subcutaneous Tissue, Fibrosarcoma

Subcutaneous Tissue, Hemangiopericytoma

Subcutaneous Tissue, Lipoma

Subcutaneous Tissue, Malignant Fibrous Histiocytoma

Subcutaneous Tissue, Myxosarcoma

|  |   |   |  |  |  |   |  |  |  |   |   |   |  |   |   |   |   |   |  |  |  |  |  |  |   |  |  |
|--|---|---|--|--|--|---|--|--|--|---|---|---|--|---|---|---|---|---|--|--|--|--|--|--|---|--|--|
|  |   |   |  |  |  |   |  |  |  |   |   |   |  | X |   |   |   |   |  |  |  |  |  |  |   |  |  |
|  | X |   |  |  |  |   |  |  |  | X | X | X |  |   | X |   | X | X |  |  |  |  |  |  |   |  |  |
|  |   | X |  |  |  |   |  |  |  |   |   |   |  | X |   | X |   |   |  |  |  |  |  |  | X |  |  |
|  |   |   |  |  |  | X |  |  |  |   |   |   |  |   |   |   |   |   |  |  |  |  |  |  |   |  |  |

MUSCULOSKELETAL SYSTEM

Bone

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Skeletal Muscle

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

NERVOUS SYSTEM

Brain

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Glioma Malignant

X

Sarcoma, Metastatic, Eye

Schwannoma Malignant, Metastatic, Trigeminal Ganglion

Meninges, Granular Cell Tumor Benign

X

X

Meninges, Granular Cell Tumor Malignant

Nerve Trigeminal

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | M | + |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Schwannoma Malignant, Metastatic, Trigeminal Ganglion

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically





Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b> | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| <b>3.0W/kg(GSM)chr</b>                 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID                              | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|  | 3 | 4 | 5 | 7 | 7 | 8 | 9 | 0 | 1 | 2 | 2 | 3 | 4 | 7 | 7 | 9 | 9 | 9 | 0 | 1 | 3 | 3 | 4 | 6 | 8 | 8 | 8 |   |
|  | 0 | 5 | 5 | 5 | 8 | 3 | 9 | 9 | 1 | 2 | 8 | 1 | 3 | 4 | 7 | 3 | 4 | 7 | 4 | 5 | 2 | 8 | 2 | 1 | 1 | 1 | 1 |   |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

males (cont...)

Retrobulbar, Schwannoma Malignant, Metastatic, Uncertain Primary Site

Harderian Gland

Schwannoma Malignant

Schwannoma Malignant, Metastatic, Trigeminal Ganglion

Schwannoma Malignant, Metastatic, Uncertain Primary Site

Lacrimal Gland

URINARY SYSTEM

Kidney

Oncocytoma Benign

Sarcoma

Renal Tubule, Adenoma

Urethra

Transitional Epithelium, Papilloma

Urinary Bladder

Carcinoma, Metastatic, Prostate

SYSTEMIC LESIONS

Multiple Organ

Lymphoma Malignant

Mesothelioma Malignant

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                                |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>MALE</b> |                        | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|  |                        | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|  | <b>3.0W/kg(GSM)chr</b> | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|  | ANIMAL ID              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |                        | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
|  |                        | 9 | 9 | 9 | 9 | 0 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |                        | 8 | 8 | 9 | 9 | 1 | 2 | 3 | 3 | 4 | 8 | 9 | 0 | 0 | 0 | 1 | 1 |
|  |                        | 2 | 5 | 0 | 2 | 6 | 7 | 4 | 7 | 9 | 6 | 1 | 1 | 3 | 5 | 8 | 8 |
| <b>* TOTALS</b>                            |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Intestine Large, Cecum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 79 |
| Intestine Large, Colon   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 81 |
| Serosa, Pheochromocytoma Malignant,<br>Metastatic, Adrenal Medulla |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Large, Rectum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 85 |
| Intestine Small, Duodenum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 79 |
| Intestine Small, Ileum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 78 |
| Intestine Small, Jejunum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 70 |
| Adenocarcinoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Hepatocellular Carcinoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pheochromocytoma Malignant, Metastatic,<br>Adrenal Medulla         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Mesentery  |   |   |   | + |   |   |   |   | + |   |   |   |   |   |   |   | 17 |
| Pheochromocytoma Malignant, Metastatic,<br>Adrenal Medulla         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pancreas   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| Adenoma  |   |   |   | X |   |   | X |   | X |   |   |   |   | X |   |   | 14 |
| Adenoma, Multiple  |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   | 4  |
| Carcinoma  |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | 2  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

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Species/Strain: RATS/HSD

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Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                                | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>MALE</b> | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|  | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| <b>3.0W/kg(GSM)chr</b>                     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| ANIMAL ID                                  | 9 | 9 | 9 | 9 | 0 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 |
|  | 8 | 8 | 9 | 9 | 1 | 2 | 3 | 3 | 4 | 8 | 9 | 0 | 0 | 0 | 1 | 1 |
|  | 2 | 5 | 0 | 2 | 6 | 7 | 4 | 7 | 9 | 6 | 1 | 1 | 3 | 5 | 8 | 8 |
| <b>* TOTALS</b>                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Pheochromocytoma Malignant, Metastatic, Adrenal Medulla 1

Salivary Glands 90

Stomach, Forestomach 90

Stomach, Glandular 87

Tooth 1

Odontoma 1

**CARDIOVASCULAR SYSTEM**

Aorta 90

Blood Vessel 1

Heart 90

Endocardium, Schwannoma Malignant 1

**ENDOCRINE SYSTEM**

Adrenal Cortex 90

Adenoma 2

Adrenal Medulla 89

Pheochromocytoma Benign 19

Pheochromocytoma Benign, Multiple 2

Pheochromocytoma Malignant 4

Bilateral, Pheochromocytoma Benign 4

Islets, Pancreatic 86

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>3.0W/kg(GSM)chr                   | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|   | 0733        | 0733  | 0733  | 0733  | 0733  | 0734  | 0734  | 0734  | 0734  | 0734  | 0734  | 0734  | 0734  | 0734  | 0734  |          |
| ANIMAL ID   | 00982       | 00985 | 00990 | 00991 | 00992 | 00996 | 00997 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 | 00999 |          |
| Adenoma   |             | X     |       |       |       |       | X     |       |       |       |       | X     |       |       | 9     |          |
| Adenoma, Multiple   |             |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |          |
| Carcinoma   |             |       |       |       | X     |       | X     |       |       |       |       | X     |       |       | 10    |          |
| Parathyroid Gland   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 87    |          |
| Pituitary Gland   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 90    |          |
| Sarcoma, Metastatic, Eye  |             |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |          |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |          |
| Pars Distalis, Adenoma  |             | X     |       | X     |       | X     | X     | X     |       |       |       |       | X     |       | 25    |          |
| Pars Distalis, Adenoma, Multiple  | X           |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |          |
| Thyroid Gland   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 89    |          |
| Bilateral, C-cell, Adenoma  |             |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |          |
| C-cell, Adenoma   |             |       |       |       |       |       | X     |       |       |       |       |       |       |       | 7     |          |
| C-cell, Carcinoma   |             |       |       | X     |       |       |       |       |       |       |       |       |       |       | 2     |          |
| Follicular Cell, Adenoma  |             |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |          |
| <b>GENERAL BODY SYSTEM</b>  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Tissue NOS  |             |       |       |       |       |       |       |       |       |       |       |       |       |       | 4     |          |
| Abdominal, Fat, Pheochromocytoma Malignant, Metastatic, Adrenal Medulla |             |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |          |
| <b>GENITAL SYSTEM</b>   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Epididymis  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 90    |          |
| Preputial Gland   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 90    |          |
| Prostate  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 90    |          |
| Adenoma   |             |       |       | X     |       |       |       |       |       |       |       |       |       |       | 6     |          |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                                | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID       |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
|  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                 |
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>MALE</b> | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3.0W/kg(GSM)chr |
|  | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |                 |
|  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
|  | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |                 |
|  | 9 | 9 | 9 | 9 | 0 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 |                 |
|  | 8 | 8 | 9 | 9 | 1 | 2 | 3 | 3 | 4 | 8 | 9 | 0 | 0 | 0 | 1 | 1 |                 |
|  | 2 | 5 | 0 | 2 | 6 | 7 | 4 | 7 | 9 | 6 | 1 | 1 | 3 | 5 | 8 | 8 |                 |
| <b>* TOTALS</b>                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |           |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|-----------|
| Carcinoma                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b> |           |
| Seminal Vesicle            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | <b>89</b> |
| Testis                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | <b>90</b> |
| Interstitial Cell, Adenoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>3</b> |           |

**HEMATOPOIETIC SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |           |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------|
| Bone Marrow   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | <b>90</b> |
| Lymph Node  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>18</b> |           |
| Mediastinal, Pheochromocytoma Malignant,<br>Metastatic, Adrenal Medulla |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |           |
| Pancreatic, Pheochromocytoma Malignant,<br>Metastatic, Adrenal Medulla  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |           |
| Lymph Node, Mandibular  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | <b>89</b> |
| Lymph Node, Mesenteric  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | <b>86</b> |
| Spleen  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | <b>89</b> |
| Thymus  | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | +         | <b>88</b> |
| Thymoma Benign  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |           |

**INTEGUMENTARY SYSTEM**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |           |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|-----------|
| Mammary Gland  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | <b>82</b> |
| Adenocarcinoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b> |           |
| Fibroadenoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>4</b> |           |
| Skin           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | <b>90</b> |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                                | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>MALE</b> | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|  | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| <b>3.0W/kg(GSM)chr</b>                     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| ANIMAL ID                                  | 9 | 9 | 9 | 9 | 0 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | 8 | 8 | 9 | 9 | 1 | 2 | 3 | 3 | 4 | 8 | 9 | 0 | 0 | 0 | 1 | 1 | 1 |
|  | 2 | 5 | 0 | 2 | 6 | 7 | 4 | 7 | 9 | 6 | 1 | 1 | 3 | 5 | 8 | 8 | 8 |
| <b>* TOTALS</b>                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

|   |   |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |          |
|---|---|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|----------|
| Basal Cell Carcinoma                                |   |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  | <b>1</b> |
| Keratoacanthoma                                     | X |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  | <b>9</b> |
| Neural Crest Tumor                                  |   |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  | <b>1</b> |
| Sarcoma   |   |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  | <b>1</b> |
| Subcutaneous Tissue, Fibroma                        |   |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  | <b>7</b> |
| Subcutaneous Tissue, Fibrosarcoma                   |   |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  | <b>1</b> |
| Subcutaneous Tissue, Hemangiopericytoma             |   |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  | <b>1</b> |
| Subcutaneous Tissue, Lipoma                         |   |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  | <b>1</b> |
| Subcutaneous Tissue, Malignant Fibrous Histiocytoma |   |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  | <b>1</b> |
| Subcutaneous Tissue, Myxosarcoma                    |   |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  | <b>1</b> |

**MUSCULOSKELETAL SYSTEM**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Bone            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |

**NERVOUS SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Brain   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Glioma Malignant                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>3</b>  |
| Sarcoma, Metastatic, Eye                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Meninges, Granular Cell Tumor Benign                  |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>3</b>  |
| Meninges, Granular Cell Tumor Malignant               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Nerve Trigeminal                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>87</b> |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>3.0W/kg(GSM)chr               | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
|   | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>4      |          |
| ANIMAL ID   | 0<br>0<br>9<br>8<br>2 | 0<br>0<br>9<br>8<br>5 | 0<br>0<br>9<br>9<br>0 | 0<br>0<br>9<br>9<br>1 | 0<br>1<br>0<br>9<br>2 | 0<br>0<br>9<br>3<br>7 | 0<br>0<br>9<br>3<br>4 | 0<br>0<br>9<br>3<br>7 | 0<br>0<br>9<br>4<br>9 | 0<br>0<br>9<br>4<br>6 | 0<br>0<br>9<br>8<br>1 | 0<br>0<br>9<br>9<br>1 | 0<br>1<br>0<br>0<br>3 | 0<br>1<br>0<br>0<br>5 | 0<br>1<br>0<br>0<br>8 |          |
| Peripheral Nerve, Sciatic   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Peripheral Nerve, Tibial  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Spinal Cord, Cervical   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Spinal Cord, Lumbar   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Spinal Cord, Thoracic   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Trigeminal Ganglion   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | M                     | +                     | +                     | 77                    |          |
| Sarcoma, Metastatic, Eye  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Schwannoma Malignant  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| <b>RESPIRATORY SYSTEM</b>   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Lung  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Nose  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Sarcoma, Metastatic, Eye  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Trachea   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 87                    |          |
| <b>SPECIAL SENSES SYSTEM</b>  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Eye   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 87                    |          |
| Choroid, Schwannoma Malignant                                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       | 1                     |          |
| Retrolbulbar, Sarcoma   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Retrolbulbar, Schwannoma Malignant, Metastatic, Trigeminal Ganglion |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically



Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--|
|  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |           |  |
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b> | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |           |  |
|  | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |           |  |
| <b>3.0W/kg(GSM)chr</b>                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |  |
|  | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |           |  |
|  | 9 | 9 | 9 | 9 | 0 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 |           |  |
|  | 8 | 8 | 9 | 9 | 1 | 2 | 3 | 3 | 4 | 8 | 9 | 0 | 0 | 0 | 1 | 1 |           |  |
|  | 2 | 5 | 0 | 2 | 6 | 7 | 4 | 7 | 9 | 6 | 1 | 1 | 3 | 5 | 8 | 8 |           |  |
| <b>* TOTALS</b>                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  |

Retrobulbar, Schwannoma Malignant, Metastatic, Uncertain Primary Site

1

Harderian Gland

+ + + + + + + + + + + + + + +

90

Schwannoma Malignant

1

Schwannoma Malignant, Metastatic, Trigeminal Ganglion

1

Schwannoma Malignant, Metastatic, Uncertain Primary Site

1

Lacrimal Gland

2

**URINARY SYSTEM**

Kidney

+ + + + + + + + + + + + + + +

90

Oncocytoma Benign

1

Sarcoma

1

Renal Tubule, Adenoma

3

Urethra

1

Transitional Epithelium, Papilloma

1

Urinary Bladder

+ + + + + + + + + + + + + + +

86

Carcinoma, Metastatic, Prostate

1

**SYSTEMIC LESIONS**

Multiple Organ

+ + + + + + + + + + + + + + +

90

Lymphoma Malignant

4

Mesothelioma Malignant

X

6

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59  
Test Type: CHRONIC  
Route: Whole Body Exposure  
Species/Strain: RATS/HSD

### P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM  
CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018  
Time Report Requested: 11:58:55  
First Dose M/F: 09/16/12 / 09/16/12  
Lab: IIT

| DAY ON TEST                            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b> | 2 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 |
| <b>6.0W/kg(GSM)chr</b>                 | 4 | 8 | 9 | 4 | 7 | 8 | 0 | 3 | 4 | 5 | 8 | 9 | 9 | 9 | 1 | 2 | 3 | 3 | 3 | 5 | 7 | 7 | 8 | 9 | 0 |   |
|  | 7 | 4 | 7 | 3 | 2 | 9 | 0 | 4 | 4 | 4 | 2 | 5 | 6 | 7 | 9 | 1 | 1 | 8 | 8 | 7 | 0 | 4 | 8 | 4 | 2 |   |
| ANIMAL ID                              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 |
|  | 5 | 3 | 8 | 1 | 4 | 6 | 4 | 9 | 9 | 3 | 4 | 8 | 0 | 9 | 5 | 4 | 6 | 4 | 3 | 6 | 7 | 2 | 0 | 5 | 5 |   |
|  | 0 | 3 | 9 | 5 | 5 | 4 | 0 | 7 | 4 | 1 | 9 | 4 | 2 | 6 | 8 | 3 | 2 | 4 | 0 | 0 | 1 | 4 | 5 | 1 | 2 |   |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

males  
(cont...)

## ALIMENTARY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Large, Cecum                                     | + | + | A | + | + | A | + | + | + | + | A | + | A | + | + | + | A | A | A | + | + | A | A | + | + |   |
| Intestine Large, Colon                                     | + | + | A | + | + | A | + | + | + | + | A | + | A | + | + | + | A | A | + | + | + | + | A | + | + |   |
| Intestine Large, Rectum                                    | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + |   |
| Intestine Small, Duodenum<br>Adenocarcinoma                | + | + | A | + | + | A | + | A | A | + | + | A | A | + | + | + | A | A | + | + | + | + | A | A | + |   |
| Intestine Small, Ileum                                     | + | + | A | + | + | A | + | A | + | + | A | A | + | + | + | + | A | A | A | + | + | A | A | A | + |   |
| Intestine Small, Jejunum<br>Adenocarcinoma                 | A | + | A | + | + | A | A | + | A | + | + | A | A | + | + | + | A | A | A | + | + | A | A | A | + |   |
| Liver<br>Hepatocellular Adenoma                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Serosa, Carcinoma, Metastatic, Intestine Small,<br>Jejunum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Mesentery  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Oral Mucosa<br>Squamous Cell Carcinoma                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas<br>Adenoma  | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | A | + | + |   |
| Adenoma, Multiple  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ANIMAL ID | males (cont...) |   |
|-------------|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------------|---|
|             | 0                               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                 | 0 |
| 2           | 3                               | 3 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7         | 0               |   |
| 4           | 8                               | 9 | 4 | 7 | 8 | 0 | 3 | 4 | 5 | 8 | 9 | 9 | 9 | 1 | 2 | 3 | 3 | 3 | 5 | 7 | 7 | 8 | 9 | 0 | 1         |                 |   |
| 7           | 4                               | 7 | 3 | 2 | 9 | 0 | 4 | 4 | 4 | 2 | 5 | 6 | 7 | 9 | 1 | 1 | 8 | 8 | 7 | 0 | 4 | 8 | 4 | 2 | 1         |                 |   |
|             | 0                               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1         |                 |   |
|             | 1                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1         |                 |   |
|             | 1                               | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1         |                 |   |
|             | 5                               | 3 | 8 | 1 | 4 | 6 | 4 | 9 | 9 | 3 | 4 | 8 | 0 | 9 | 5 | 4 | 6 | 4 | 3 | 6 | 7 | 2 | 2 | 5 | 1         |                 |   |
|             | 0                               | 3 | 9 | 5 | 5 | 4 | 0 | 7 | 4 | 1 | 9 | 4 | 2 | 6 | 8 | 3 | 2 | 4 | 0 | 1 | 4 | 5 | 1 | 2 | 1         |                 |   |

Carcinoma, Metastatic, Intestine Small, Jejunum

Salivary Glands

Stomach, Forestomach

Sarcoma

Squamous Cell Carcinoma

Stomach, Glandular

CARDIOVASCULAR SYSTEM

Aorta

Heart

Carcinoma, Metastatic, Adrenal Cortex

Endocardium, Schwannoma Malignant

Myocardium, Schwannoma Malignant

ENDOCRINE SYSTEM

Adrenal Cortex

Adenoma

Carcinoma

Adrenal Medulla

Pheochromocytoma Benign

Islets, Pancreatic

Adenoma

Adenoma, Multiple

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE<br>6.0W/kg(GSM)chr |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | males (cont...) |
|-------------|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------|
|             | 0<br>2<br>4<br>7                                   | 0<br>3<br>8<br>4      | 0<br>3<br>9<br>7      | 0<br>4<br>4<br>3      | 0<br>4<br>7<br>2      | 0<br>4<br>8<br>9      | 0<br>5<br>0<br>0      | 0<br>5<br>3<br>4      | 0<br>5<br>4<br>4      | 0<br>5<br>8<br>5      | 0<br>5<br>9<br>2      | 0<br>5<br>9<br>6      | 0<br>5<br>9<br>7      | 0<br>6<br>1<br>9      | 0<br>6<br>2<br>1      | 0<br>6<br>3<br>1      | 0<br>6<br>3<br>8      | 0<br>6<br>3<br>8      | 0<br>6<br>5<br>7      | 0<br>6<br>7<br>0      | 0<br>6<br>7<br>4      | 0<br>6<br>8<br>8      | 0<br>6<br>9<br>4      | 0<br>7<br>0<br>2      |                       |                 |
| ANIMAL ID   | 0<br>1<br>1<br>5<br>0                              | 0<br>1<br>1<br>3<br>3 | 0<br>1<br>1<br>8<br>9 | 0<br>1<br>1<br>1<br>5 | 0<br>1<br>1<br>4<br>5 | 0<br>1<br>1<br>6<br>4 | 0<br>1<br>1<br>4<br>0 | 0<br>1<br>1<br>9<br>7 | 0<br>1<br>1<br>9<br>4 | 0<br>1<br>1<br>3<br>1 | 0<br>1<br>1<br>4<br>9 | 0<br>1<br>2<br>8<br>4 | 0<br>1<br>1<br>0<br>2 | 0<br>1<br>1<br>9<br>6 | 0<br>1<br>1<br>5<br>3 | 0<br>1<br>1<br>4<br>4 | 0<br>1<br>1<br>6<br>4 | 0<br>1<br>1<br>3<br>0 | 0<br>1<br>1<br>6<br>0 | 0<br>1<br>1<br>7<br>1 | 0<br>1<br>2<br>2<br>4 | 0<br>1<br>2<br>0<br>5 | 0<br>1<br>2<br>5<br>1 | 0<br>1<br>1<br>5<br>5 | 0<br>1<br>1<br>5<br>2 |                 |

Carcinoma

X

Parathyroid Gland

+ + + + M + + + + + M + + + + + M + + + + I + M

Adenoma

Pituitary Gland

+ +

Schwannoma Malignant, Metastatic, Harderian Gland

Pars Distalis, Adenoma

X X X X X X X

Thyroid Gland

+ + + + + + + + A + + + + + + + A + + + + A + +

Bilateral, C-cell, Adenoma

C-cell, Adenoma

C-cell, Carcinoma

Follicular Cell, Carcinoma

**GENERAL BODY SYSTEM**

Tissue NOS

Mediastinum, Chemodectoma Benign

**GENITAL SYSTEM**

Coagulating Gland

Epididymis

+ +

Penis

+

Preputial Gland

Squamous Cell Carcinoma

+ +

Prostate

+ +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b> | 2 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 |
| <b>6.0W/kg(GSM)chr</b>                 | 4 | 8 | 9 | 4 | 7 | 8 | 0 | 3 | 4 | 5 | 8 | 9 | 9 | 9 | 1 | 2 | 3 | 3 | 3 | 5 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 2 |   |
| ANIMAL ID                              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 0 | 2 | 1 | 1 | 1 | 1 |
|  | 5 | 3 | 8 | 1 | 4 | 6 | 4 | 9 | 9 | 3 | 4 | 8 | 0 | 9 | 5 | 4 | 6 | 4 | 3 | 6 | 7 | 2 | 2 | 0 | 5 | 5 | 5 | 5 | 2 |
|  | 0 | 3 | 9 | 5 | 5 | 4 | 0 | 7 | 4 | 1 | 9 | 4 | 2 | 6 | 8 | 3 | 2 | 4 | 0 | 0 | 1 | 4 | 5 | 1 | 1 | 1 | 1 | 1 | 2 |

males (cont...)

Adenoma

Seminal Vesicle

Testis

Interstitial Cell, Adenoma

HEMATOPOIETIC SYSTEM

Bone Marrow

Hemangioma

Lymph Node

Lymph Node, Mandibular

Lymph Node, Mesenteric

Carcinoma, Metastatic, Intestine Small, Jejunum

Hemangiosarcoma

Spleen

Hemangiosarcoma

Capsule, Carcinoma, Metastatic, Intestine Small, Jejunum

Thymus

Thymoma Malignant

INTEGUMENTARY SYSTEM

Mammary Gland

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

| DAY ON TEST                            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b> | 2 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 |
| <b>6.0W/kg(GSM)chr</b>                 | 4 | 8 | 9 | 4 | 7 | 8 | 0 | 3 | 4 | 5 | 8 | 9 | 9 | 9 | 1 | 2 | 3 | 3 | 3 | 5 | 7 | 7 | 8 | 8 | 9 | 0 | 2 |   |
| ANIMAL ID                              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 |
|  | 5 | 3 | 8 | 1 | 4 | 6 | 4 | 9 | 9 | 3 | 4 | 8 | 0 | 9 | 5 | 4 | 6 | 4 | 3 | 6 | 7 | 2 | 0 | 5 | 5 | 5 | 5 |   |
|  | 0 | 3 | 9 | 5 | 5 | 4 | 0 | 7 | 4 | 1 | 9 | 4 | 2 | 6 | 8 | 3 | 2 | 4 | 0 | 0 | 1 | 4 | 5 | 1 | 2 | 2 | 2 |   |

males  
(cont...)

Fibroadenoma

X

Skin

+ +

Basal Cell Adenoma

X

Keratoacanthoma

Subcutaneous Tissue, Fibroma

X

X

Subcutaneous Tissue, Fibrosarcoma

X

Subcutaneous Tissue, Hibernoma

Subcutaneous Tissue, Lipoma

Subcutaneous Tissue, Sarcoma

X

**MUSCULOSKELETAL SYSTEM**

Bone

+ +

Skeletal Muscle

+ +

Diaphragm, Carcinoma, Metastatic, Intestine

Small, Jejunum

**NERVOUS SYSTEM**

Brain

+ +

Glioma Malignant

Meninges, Granular Cell Tumor Benign

Nerve Trigeminal

+ + + + + + + + + + + + + + + + M + + + + + + + +

Peripheral Nerve, Sciatic

+ +

Peripheral Nerve, Tibial

+ + + + + + + + I + + + + + + + + + + + + + +

Spinal Cord, Cervical

+ +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
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 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST  | HARLAN SPRAGUE DAWLEY RATS MALE |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | males<br>(cont...)    |                  |   |
|--|---------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|---|
|  | 0<br>2<br>4<br>7                | 0<br>3<br>8<br>4      | 0<br>3<br>9<br>7      | 0<br>4<br>4<br>3      | 0<br>4<br>7<br>2      | 0<br>4<br>8<br>9      | 0<br>5<br>0<br>0      | 0<br>5<br>3<br>4      | 0<br>5<br>4<br>4      | 0<br>5<br>5<br>4      | 0<br>5<br>8<br>2      | 0<br>5<br>9<br>5      | 0<br>5<br>9<br>6      | 0<br>5<br>9<br>7      | 0<br>6<br>1<br>9      | 0<br>6<br>2<br>1      | 0<br>6<br>3<br>1      | 0<br>6<br>3<br>8      | 0<br>6<br>3<br>8      | 0<br>6<br>5<br>7      | 0<br>6<br>7<br>0      | 0<br>6<br>7<br>4      | 0<br>6<br>8<br>8      | 0<br>6<br>9<br>4      |                       |                       | 0<br>7<br>0<br>2 |   |
| ANIMAL ID  | 0<br>1<br>1<br>5<br>0           | 0<br>1<br>1<br>3<br>3 | 0<br>1<br>1<br>8<br>9 | 0<br>1<br>1<br>1<br>5 | 0<br>1<br>1<br>4<br>5 | 0<br>1<br>1<br>6<br>4 | 0<br>1<br>1<br>4<br>0 | 0<br>1<br>1<br>9<br>7 | 0<br>1<br>1<br>9<br>4 | 0<br>1<br>1<br>9<br>1 | 0<br>1<br>1<br>3<br>4 | 0<br>1<br>1<br>4<br>9 | 0<br>1<br>2<br>8<br>2 | 0<br>1<br>2<br>9<br>6 | 0<br>1<br>1<br>5<br>8 | 0<br>1<br>1<br>4<br>3 | 0<br>1<br>1<br>6<br>2 | 0<br>1<br>1<br>4<br>4 | 0<br>1<br>1<br>3<br>0 | 0<br>1<br>1<br>6<br>0 | 0<br>1<br>1<br>7<br>1 | 0<br>1<br>2<br>2<br>4 | 0<br>1<br>2<br>0<br>5 | 0<br>1<br>2<br>5<br>1 | 0<br>1<br>1<br>0<br>5 | 0<br>1<br>1<br>5<br>2 |                  |   |
| Spinal Cord, Lumbar  | +                               | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                |   |
| Spinal Cord, Thoracic  | +                               | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                |   |
| Trigeminal Ganglion  | +                               | +                     | +                     | M                     | +                     | +                     | +                     | M                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | I                     | +                     | +                     | +                     | +                     | +                     | +                     | +                |   |
| <b>RESPIRATORY SYSTEM</b>  |                                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  |   |
| Lung<br>Sarcoma, Metastatic, Kidney  | +                               | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                |   |
| Nose   | +                               | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                |   |
| Trachea  | +                               | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | A                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | A                     | +                |   |
| <b>SPECIAL SENSES SYSTEM</b>   |                                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  |   |
| Eye  | +                               | +                     | A                     | +                     | +                     | A                     | +                     | A                     | +                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | +                     | A                     | A                     | +                     | +                |   |
| Harderian Gland<br>Schwannoma Malignant  | +                               | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                |   |
| Lacrimal Gland   |                                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  |   |
| <b>URINARY SYSTEM</b>  |                                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  |   |
| Kidney<br>Sarcoma<br>Bilateral, Renal Tubule, Adenoma<br>Bilateral, Renal Tubule, Carcinoma<br>Renal Tubule, Adenoma | +                               | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                | + |
|  |                                 |                       | X                     |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>MALE</b><br><b>6.0W/kg(GSM)chr</b> | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |             | 2 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 |   |
|  |             | 4 | 8 | 9 | 4 | 7 | 8 | 0 | 3 | 4 | 5 | 8 | 9 | 9 | 9 | 1 | 2 | 3 | 3 | 3 | 5 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |             | 7 | 4 | 7 | 3 | 2 | 9 | 0 | 4 | 4 | 4 | 2 | 5 | 6 | 7 | 9 | 1 | 1 | 8 | 8 | 7 | 0 | 4 | 4 | 8 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| ANIMAL ID  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  | 1           | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|  | 5           | 3 | 8 | 1 | 4 | 6 | 4 | 9 | 9 | 3 | 4 | 8 | 0 | 9 | 5 | 4 | 6 | 4 | 3 | 6 | 7 | 2 | 0 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
|  | 0           | 3 | 9 | 5 | 5 | 4 | 0 | 7 | 4 | 1 | 9 | 4 | 2 | 6 | 8 | 3 | 2 | 4 | 0 | 0 | 1 | 4 | 5 | 1 | 2 | 2 | 1 | 4 | 5 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |

males  
(cont...)

Urinary Bladder

+ + + + + + + A + + + A + + + + A A + + + + + A +

SYSTEMIC LESIONS

Multiple Organ  
Leukemia Mononuclear  
Lymphoma Malignant  
Mesothelioma Malignant

+ + + + + + + + + + + + + X + + + + + + + + + + + +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically



Experiment Number: 20105 - 59

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

|  |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <p><b>HARLAN SPRAGUE DAWLEY RATS MALE</b><br/><b>6.0W/kg(GSM)chr</b></p> | <p>DAY ON TEST</p> | 0714 | 0716 | 0719 | 0720 | 0723 | 0724 | 0727 | 0728 | 0731 | 0732 | 0735 | 0736 | 0739 | 0740 | 0743 | 0744 | 0747 | 0748 | 0751 | 0752 | 0755 | 0756 | 0759 | 0760 |
|  | <p>ANIMAL ID</p>   | 0117 | 0118 | 0122 | 0125 | 0128 | 0129 | 0132 | 0133 | 0136 | 0137 | 0140 | 0141 | 0144 | 0145 | 0148 | 0149 | 0152 | 0153 | 0156 | 0157 | 0160 | 0161 | 0164 | 0165 |

males (cont...)

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                                  | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon                                  | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum Adenocarcinoma                | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum                                  | + | + | A | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum Adenocarcinoma                 | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |
| Serosa, Carcinoma, Metastatic, Intestine Small, Jejunum |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesentery   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   | + |   |   |
| Oral Mucosa   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas  | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | X |   |   |   |   |   |   |
| Adenoma, Multiple                                       |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>6.0W/kg(GSM)chr | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ANIMAL ID | males<br>(cont...) |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                    |
|   | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |           |                    |
|   | 1           | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |           |                    |
|   | 4           | 6 | 6 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |           |                    |
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                    |
|   | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |           |                    |
|   | 1           | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |   |           |                    |
|   | 7           | 3 | 2 | 5 | 9 | 5 | 6 | 7 | 8 | 0 | 1 | 1 | 1 | 2 | 3 | 6 | 7 | 7 | 8 | 8 | 0 | 0 | 2 |   |           |                    |
|   | 5           | 7 | 8 | 9 | 8 | 4 | 8 | 0 | 1 | 0 | 0 | 1 | 7 | 2 | 6 | 5 | 6 | 8 | 9 | 7 | 8 | 6 | 5 |   |           |                    |

Carcinoma, Metastatic, Intestine Small, Jejunum

X

Salivary Glands

+ +

Stomach, Forestomach

+ +

Sarcoma  
Squamous Cell Carcinoma

Stomach, Glandular

+ + A +

CARDIOVASCULAR SYSTEM

Aorta

+ +

Heart

+ +

Carcinoma, Metastatic, Adrenal Cortex  
Endocardium, Schwannoma Malignant  
Myocardium, Schwannoma Malignant

X X

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

Adenoma  
Carcinoma

X

Adrenal Medulla

+ +

Pheochromocytoma Benign

X

X X X X X X X

Islets, Pancreatic

+ + A +

Adenoma

X X

X

Adenoma, Multiple

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>6.0W/kg(GSM)chr | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                       | ANIMAL ID | males<br>(cont...) |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|-----------|--------------------|
|   | 0<br>7<br>1<br>4 | 0<br>7<br>1<br>6 | 0<br>7<br>1<br>6 | 0<br>7<br>1<br>9 | 0<br>7<br>1<br>9 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1      |           |                    |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0<br>1<br>1<br>7<br>5 |           |                    |

Carcinoma

X

X

Parathyroid Gland  
Adenoma

+ M + + +

Pituitary Gland  
Schwannoma Malignant, Metastatic, Harderian  
Gland  
Pars Distalis, Adenoma

+ + + + + + + + + + + + X + + + + + + + + + +  
X X

Thyroid Gland  
Bilateral, C-cell, Adenoma  
C-cell, Adenoma  
C-cell, Carcinoma  
Follicular Cell, Carcinoma

+ + + + + + + + + + + X + + + + + + + + + + + + + +  
X X

GENERAL BODY SYSTEM

Tissue NOS  
Mediastinum, Chemodectoma Benign

+ +

GENITAL SYSTEM

Coagulating Gland

Epididymis

+ +

Penis

Preputial Gland  
Squamous Cell Carcinoma

+ +

Prostate

+ +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ANIMAL ID | males (cont...) |   |
|-------------|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------------|---|
|             | 0                               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                 | 0 |
| 7           | 7                               | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7         | 0               |   |
| 1           | 1                               | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3         | 1               |   |
| 4           | 6                               | 6 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         | 5               |   |

Adenoma

X

Seminal Vesicle

+ +

Testis

+ +

Interstitial Cell, Adenoma

X

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

Hemangioma

X

Lymph Node

+ + +

Lymph Node, Mandibular

+ +

Lymph Node, Mesenteric

+ +

Carcinoma, Metastatic, Intestine Small, Jejunum

X

Hemangiosarcoma

Spleen

+ +

Hemangiosarcoma

Capsule, Carcinoma, Metastatic, Intestine Small, Jejunum

X

Thymus

+ + A + + + + + + + + + + + + + M + + + + + + + +

Thymoma Malignant

INTEGUMENTARY SYSTEM

Mammary Gland

+ +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
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Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS MALE<br>6.0W/kg(GSM)chr | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | males<br>(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
|  | 0<br>7<br>1<br>4      | 0<br>7<br>1<br>6      | 0<br>7<br>1<br>6      | 0<br>7<br>1<br>9      | 0<br>7<br>1<br>9      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      |                       |                    |
|  | 0<br>1<br>1<br>7<br>5 | 0<br>1<br>1<br>3<br>7 | 0<br>1<br>2<br>2<br>8 | 0<br>1<br>1<br>5<br>9 | 0<br>1<br>1<br>9<br>8 | 0<br>1<br>1<br>5<br>4 | 0<br>1<br>1<br>6<br>8 | 0<br>1<br>1<br>7<br>0 | 0<br>1<br>1<br>8<br>0 | 0<br>1<br>2<br>1<br>1 | 0<br>1<br>2<br>2<br>0 | 0<br>1<br>2<br>2<br>0 | 0<br>1<br>2<br>2<br>0 | 0<br>1<br>2<br>2<br>0 | 0<br>1<br>1<br>3<br>5 | 0<br>1<br>1<br>6<br>6 | 0<br>1<br>1<br>7<br>8 | 0<br>1<br>1<br>8<br>9 | 0<br>1<br>1<br>8<br>7 | 0<br>1<br>1<br>8<br>8 | 0<br>1<br>2<br>0<br>6 | 0<br>1<br>2<br>0<br>8 |                    |
| Fibroadenoma                                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                    |
| Skin   | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                    |
| Basal Cell Adenoma                                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                    |
| Keratoacanthoma                                    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                  |
| Subcutaneous Tissue, Fibroma                       | X                     |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                  |
| Subcutaneous Tissue, Fibrosarcoma                  |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                    |
| Subcutaneous Tissue, Hibernoma                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                  |
| Subcutaneous Tissue, Lipoma                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                  |
| Subcutaneous Tissue, Sarcoma                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                    |

### MUSCULOSKELETAL SYSTEM

|  |   |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|---|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone   | + |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Skeletal Muscle  | + |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Diaphragm, Carcinoma, Metastatic, Intestine Small, Jejunum |   |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

### NERVOUS SYSTEM

|                                      |   |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |   |  |   |   |   |  |   |  |   |  |
|--------------------------------------|---|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|---|--|---|---|---|--|---|--|---|--|
| Brain                                | + |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |   |  |   |   |   |  |   |  |   |  |
| Glioma Malignant                     |   |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |   |  |   |   |   |  |   |  |   |  |
| Meninges, Granular Cell Tumor Benign |   |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |   |  |   | X |   |  |   |  |   |  |
| Nerve Trigeminal                     | + |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  | I |  | + |   | + |  | + |  | + |  |
| Peripheral Nerve, Sciatic            | + |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |   |  |   |   |   |  |   |  |   |  |
| Peripheral Nerve, Tibial             | + |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |   |  |   |   |   |  |   |  |   |  |
| Spinal Cord, Cervical                | + |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |   |  |   |   |   |  |   |  |   |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>6.0W/kg(GSM)chr | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | males<br>(cont...) |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|
|   | 0<br>7<br>1<br>4 | 0<br>7<br>1<br>6 | 0<br>7<br>1<br>6 | 0<br>7<br>1<br>9 | 0<br>7<br>1<br>9 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 |           |                    |
| Spinal Cord, Lumbar                                   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                    |
| Spinal Cord, Thoracic                                 | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                    |
| Trigeminal Ganglion                                   | +                | +                | M                | +                | +                | +                | +                | +                | M                | +                | +                | M                | M                | +                | +                | +                | +                | +                | +                | I                | +                | +                | M                | +                |                  |           |                    |
| <b>RESPIRATORY SYSTEM</b>                             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |
| Lung  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                    |
| Sarcoma, Metastatic, Kidney                           |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |
| Nose  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                    |
| Trachea   | +                | +                | A                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                    |
| <b>SPECIAL SENSES SYSTEM</b>                          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |
| Eye   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                    |
| Harderian Gland                                       | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                    |
| Schwannoma Malignant                                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |           |                    |
| Lacrimal Gland  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | +                |           |                    |
| <b>URINARY SYSTEM</b>                                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |
| Kidney  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                    |
| Sarcoma   |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |
| Bilateral, Renal Tubule, Adenoma                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |
| Bilateral, Renal Tubule, Carcinoma                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |
| Renal Tubule, Adenoma                                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |           |                    |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

|   |             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                    |
|---|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>6.0W/kg(GSM)chr | DAY ON TEST | 0<br>7<br>1<br>4      | 0<br>7<br>1<br>6      | 0<br>7<br>1<br>6      | 0<br>7<br>1<br>9      | 0<br>7<br>1<br>9      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | males<br>(cont...) |
|   | ANIMAL ID   | 0<br>1<br>1<br>7<br>5 | 0<br>1<br>1<br>3<br>7 | 0<br>1<br>2<br>2<br>8 | 0<br>1<br>1<br>5<br>8 | 0<br>1<br>1<br>9<br>4 | 0<br>1<br>1<br>6<br>8 | 0<br>1<br>1<br>7<br>0 | 0<br>1<br>1<br>8<br>0 | 0<br>1<br>2<br>0<br>0 | 0<br>1<br>2<br>1<br>1 | 0<br>1<br>2<br>2<br>7 | 0<br>1<br>2<br>2<br>1 | 0<br>1<br>2<br>2<br>1 | 0<br>1<br>3<br>2<br>5 | 0<br>1<br>1<br>6<br>5 | 0<br>1<br>1<br>7<br>6 | 0<br>1<br>1<br>7<br>8 | 0<br>1<br>1<br>8<br>9 | 0<br>1<br>1<br>8<br>7 | 0<br>1<br>1<br>8<br>8 | 0<br>1<br>2<br>0<br>6 | 0<br>1<br>2<br>0<br>8 |                    |

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

SYSTEMIC LESIONS

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant     |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesothelioma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

|  |                        | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | males<br>(cont...) |
|--|------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
|  |                        | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                    |
|  |                        | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                    |
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b> |                        | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |                    |
|  | <b>6.0W/kg(GSM)chr</b> | 2           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |                    |
|  | ANIMAL ID              | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                    |
|  |                        | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |                    |
|  |                        | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 1 |                    |
|  |                        | 3           | 4 | 6 | 7 | 8 | 8 | 9 | 9 | 1 | 1 | 3 | 4 | 5 | 7 | 8 | 9 | 9 | 1 | 2 | 2 | 3 | 3 | 6 | 6 |                    |
|  |                        | 9           | 6 | 1 | 7 | 2 | 3 | 0 | 9 | 9 | 4 | 8 | 4 | 5 | 2 | 0 | 1 | 5 | 9 | 0 | 9 | 6 | 8 | 7 | 9 |                    |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum<br>Adenocarcinoma   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum<br>Adenocarcinoma  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver<br>Hepatocellular Adenoma<br>Serosa, Carcinoma, Metastatic, Intestine Small,<br>Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   | + |
| Oral Mucosa<br>Squamous Cell Carcinoma  |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas<br>Adenoma<br>Adenoma, Multiple  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   |   |   | X |   |   |   |   |   |   |   | X |   | X |   |   |   |   |   | X | X |   |   | X |
|   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



Experiment Number: 20105 - 59  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018  
 Time Report Requested: 11:58:55  
 First Dose M/F: 09/16/12 / 09/16/12  
 Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>6.0W/kg(GSM)chr | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | males<br>(cont...) |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                    |
|   | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                    |
| ANIMAL ID   | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |                    |
|   | 2           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |                    |
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                    |
|   | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |                    |
|   | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 |                    |
|   | 3           | 4 | 6 | 7 | 8 | 8 | 9 | 9 | 9 | 1 | 1 | 3 | 4 | 5 | 7 | 8 | 9 | 9 | 1 | 2 | 2 | 3 | 3 |                    |
|   | 9           | 6 | 1 | 7 | 2 | 3 | 0 | 9 | 9 | 4 | 8 | 4 | 1 | 5 | 2 | 0 | 1 | 5 | 9 | 0 | 9 | 6 | 8 |                    |
| Carcinoma, Metastatic, Intestine Small, Jejunum       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                    |
| Salivary Glands                                       | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                    |
| Stomach, Forestomach                                  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                    |
| Sarcoma   |             |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |                    |
| Squamous Cell Carcinoma                               |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |                    |
| Stomach, Glandular                                    | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                    |
| <b>CARDIOVASCULAR SYSTEM</b>                          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                    |
| Aorta   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                    |
| Heart   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                    |
| Carcinoma, Metastatic, Adrenal Cortex                 |             |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                    |
| Endocardium, Schwannoma Malignant                     |             |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |                    |
| Myocardium, Schwannoma Malignant                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                    |
| <b>ENDOCRINE SYSTEM</b>                               |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                    |
| Adrenal Cortex  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                    |
| Adenoma   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                    |
| Carcinoma   |             |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                    |
| Adrenal Medulla                                       | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + |                    |
| Pheochromocytoma Benign                               |             |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |                    |
| Islets, Pancreatic                                    | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                    |
| Adenoma   |             | X |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |                    |
| Adenoma, Multiple                                     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                    |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST   |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | males<br>(cont...) |
|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>6.0W/kg(GSM)chr |  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |           |                    |
|   |  | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |           |                    |
|   |  | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 |           |                    |
|   |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |           |                    |
|   |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |           |                    |
|   |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 |   |           |                    |
|   |  | 3 | 4 | 6 | 7 | 8 | 8 | 9 | 9 | 1 | 1 | 3 | 4 | 5 | 7 | 8 | 9 | 9 | 1 | 2 | 2 | 3 | 3 | 6 | 6 |   |           |                    |
|   |  | 9 | 6 | 1 | 7 | 2 | 3 | 0 | 9 | 4 | 8 | 4 | 1 | 5 | 2 | 0 | 1 | 5 | 9 | 0 | 9 | 6 | 8 | 7 | 4 |   |           |                    |

Carcinoma

X

X

Parathyroid Gland

Adenoma

+ + + + + M M + + + + + + + + + M + + + + + + + +

X

Pituitary Gland

Schwannoma Malignant, Metastatic, Harderian Gland

+ +

Pars Distalis, Adenoma

X X X X X X X X X X

Thyroid Gland

Bilateral, C-cell, Adenoma

C-cell, Adenoma

C-cell, Carcinoma

Follicular Cell, Carcinoma

+ +

X

X

X

X

X

X

GENERAL BODY SYSTEM

Tissue NOS

Mediastinum, Chemodectoma Benign

+

+

X

GENITAL SYSTEM

Coagulating Gland

+

Epididymis

+ +

Penis

Preputial Gland

Squamous Cell Carcinoma

+ +

X

Prostate

+ +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ANIMAL ID | males (cont...) |   |
|-------------|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------------|---|
|             | 0                               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                 | 0 |
| 7           | 7                               | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7         | 0               |   |
| 3           | 3                               | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3         | 0               |   |
| 2           | 2                               | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3         | 0               |   |
|             | 1                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1         | 0               |   |
|             | 1                               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1         | 0               |   |
|             | 3                               | 4 | 6 | 7 | 8 | 8 | 9 | 9 | 1 | 1 | 3 | 4 | 5 | 7 | 8 | 9 | 9 | 1 | 2 | 2 | 3 | 3 | 6 | 6 | 6         | 0               |   |
|             | 9                               | 6 | 1 | 7 | 2 | 3 | 0 | 9 | 4 | 8 | 4 | 1 | 5 | 2 | 0 | 1 | 5 | 9 | 0 | 9 | 6 | 8 | 7 | 9 | 4         | 0               |   |

Adenoma

X

X

Seminal Vesicle

+ +

Testis

+ +

Interstitial Cell, Adenoma

X

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

Hemangioma

Lymph Node

+ + +

Lymph Node, Mandibular

+ +

Lymph Node, Mesenteric

+ +

Carcinoma, Metastatic, Intestine Small, Jejunum

Hemangiosarcoma

Spleen

+ +

Hemangiosarcoma

Capsule, Carcinoma, Metastatic, Intestine Small, Jejunum

Thymus

+ +

Thymoma Malignant

X

INTEGUMENTARY SYSTEM

Mammary Gland

+ + + + + + + + + + M + + + + + + + + + + + + + + +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

|  |  | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                        |
|--|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------|
| HARLAN SPRAGUE DAWLEY RATS MALE<br>6.0W/kg(GSM)chr |  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                        |
| ANIMAL ID  |  | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                        |
|  |  | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |                        |
|  |  | 2           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 |                        |
|  |  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                        |
|  |  | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |                        |
|  |  | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |                        |
|  |  | 3           | 4 | 6 | 7 | 8 | 8 | 9 | 9 | 1 | 1 | 3 | 4 | 5 | 7 | 8 | 9 | 9 | 1 | 2 | 2 | 3 | 3 | 6 | 6 |                        |
|  |  | 9           | 6 | 1 | 7 | 2 | 3 | 0 | 9 | 9 | 4 | 8 | 4 | 5 | 2 | 0 | 1 | 5 | 9 | 0 | 9 | 6 | 8 | 7 | 9 | <b>males (cont...)</b> |

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fibroadenoma                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Skin                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basal Cell Adenoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Keratoacanthoma                   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Fibroma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Fibrosarcoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Hibernoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Lipoma       | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Subcutaneous Tissue, Sarcoma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>MUSCULOSKELETAL SYSTEM</b>                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bone   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Diaphragm, Carcinoma, Metastatic, Intestine Small, Jejunum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>NERVOUS SYSTEM</b>                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Brain                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Glioma Malignant                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Meninges, Granular Cell Tumor Benign |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nerve Trigeminal                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Sciatic            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Tibial             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Cervical                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>6.0W/kg(GSM)chr | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | males<br>(cont...) |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|
|   |             | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |           |                    |
|   |             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |           |                    |
|   |             | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |           |                    |
|   |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                    |
|   |             | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |           |                    |
|   |             | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 |           |                    |
|   |             | 3 | 4 | 6 | 7 | 8 | 8 | 9 | 9 | 1 | 1 | 3 | 4 | 5 | 7 | 8 | 9 | 9 | 1 | 2 | 2 | 3 | 3 | 6 | 6 | 7 | 7 |           |                    |
|   |             | 9 | 6 | 1 | 7 | 2 | 3 | 0 | 9 | 4 | 8 | 4 | 1 | 5 | 2 | 0 | 1 | 5 | 9 | 0 | 9 | 6 | 8 | 7 | 9 | 4 |   |           |                    |
| Spinal Cord, Lumbar                                   |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |           |                    |
| Spinal Cord, Thoracic                                 |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |           |                    |
| Trigeminal Ganglion                                   |             | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |           |                    |
| <b>RESPIRATORY SYSTEM</b>                             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                    |
| Lung  |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |           |                    |
| Sarcoma, Metastatic, Kidney                           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                    |
| Nose  |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |           |                    |
| Trachea   |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |           |                    |
| <b>SPECIAL SENSES SYSTEM</b>                          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                    |
| Eye   |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |           |                    |
| Harderian Gland                                       |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |           |                    |
| Schwannoma Malignant                                  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                    |
| Lacrimal Gland  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                    |
|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                    |
| <b>URINARY SYSTEM</b>                                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                    |
| Kidney  |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |           |                    |
| Sarcoma   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                    |
| Bilateral, Renal Tubule, Adenoma                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                    |
| Bilateral, Renal Tubule, Carcinoma                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                    |
| Renal Tubule, Adenoma                                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                    |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018  
 Time Report Requested: 11:58:55  
 First Dose M/F: 09/16/12 / 09/16/12  
 Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>6.0W/kg(GSM)chr | DAY ON TEST |   | ANIMAL ID |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | males<br>(cont...) |   |
|---|-------------|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|
|   | 0           | 0 | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                    | 0 |
|   | 7           | 7 | 7         | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7                  | 7 |
|   | 3           | 3 | 3         | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3                  | 3 |
|   | 2           | 2 | 2         | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2                  | 2 |
|   | 0           | 0 | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                  | 0 |
|   | 1           | 1 | 1         | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                  | 1 |
|   | 1           | 1 | 1         | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1                  | 1 |
|   | 3           | 4 | 6         | 7 | 8 | 8 | 9 | 9 | 1 | 1 | 3 | 4 | 5 | 7 | 8 | 9 | 9 | 1 | 2 | 2 | 3 | 3 | 6                  | 6 |
|   | 9           | 6 | 1         | 7 | 2 | 3 | 0 | 9 | 9 | 4 | 8 | 4 | 1 | 5 | 2 | 0 | 1 | 5 | 9 | 0 | 6 | 8 | 7                  | 9 |

Urinary Bladder

+ +

SYSTEMIC LESIONS

Multiple Organ

+ +

Leukemia Mononuclear

Lymphoma Malignant

Mesothelioma Malignant

X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                                |                        | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>MALE</b> | <b>6.0W/kg(GSM)chr</b> | 7         | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|  |                        | 3         | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|  |                        | 4         | 4 | 4 | 4 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|  |                        | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | 1                      | 1         | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |
|  | 2                      | 2         | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |   |
|  | 0                      | 0         | 0 | 1 | 2 | 3 | 5 | 5 | 6 | 7 | 9 | 0 | 2 | 3 | 3 | 3 |   |
|  | 1                      | 3         | 7 | 3 | 7 | 1 | 6 | 7 | 3 | 6 | 3 | 9 | 3 | 4 | 5 | 5 |   |
| <b>* TOTALS</b>                            |                        |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

ALIMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Intestine Large, Cecum                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>80</b> |
| Intestine Large, Colon                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>82</b> |
| Intestine Large, Rectum                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>87</b> |
| Intestine Small, Duodenum                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>79</b> |
| Adenocarcinoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Intestine Small, Ileum                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>76</b> |
| Intestine Small, Jejunum                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>76</b> |
| Adenocarcinoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Liver   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Hepatocellular Adenoma                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| Serosa, Carcinoma, Metastatic, Intestine Small, Jejunum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Mesentery   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>7</b>  |
| Oral Mucosa   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| Squamous Cell Carcinoma                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Pancreas  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>86</b> |
| Adenoma   |   |   |   |   |   | X |   |   |   |   | X | X |   |   |   |   | <b>12</b> |
| Adenoma, Multiple                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | <b>4</b>  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                                     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID       |  |           |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|--|-----------|
|   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                 |  |           |
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b>          | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |                 |  |           |
| <b>6.0W/kg(GSM)chr</b>                          | 4 | 4 | 4 | 4 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                 |  |           |
|   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |  |           |
|   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |                 |  |           |
|   | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |                 |  |           |
|   | 0 | 0 | 0 | 1 | 2 | 3 | 5 | 5 | 6 | 7 | 9 | 0 | 2 | 3 | 3 | 3 | 3 |                 |  |           |
|   | 1 | 3 | 7 | 3 | 7 | 1 | 6 | 7 | 3 | 6 | 3 | 9 | 3 | 4 | 5 | 5 | 5 |                 |  |           |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |  |           |
| Carcinoma, Metastatic, Intestine Small, Jejunum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>        |  |           |
| Salivary Glands                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 |  | <b>90</b> |
| Stomach, Forestomach                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 |  | <b>90</b> |
| Sarcoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>        |  |           |
| Squamous Cell Carcinoma                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>        |  |           |
| Stomach, Glandular                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 |  | <b>86</b> |
| <b>CARDIOVASCULAR SYSTEM</b>                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |  |           |
| Aorta   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 |  | <b>90</b> |
| Heart   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 |  | <b>90</b> |
| Carcinoma, Metastatic, Adrenal Cortex           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>        |  |           |
| Endocardium, Schwannoma Malignant               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>        |  |           |
| Myocardium, Schwannoma Malignant                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>3</b>        |  |           |
| <b>ENDOCRINE SYSTEM</b>                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |  |           |
| Adrenal Cortex                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 |  | <b>88</b> |
| Adenoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>        |  |           |
| Carcinoma                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>        |  |           |
| Adrenal Medulla                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 |  | <b>87</b> |
| Pheochromocytoma Benign                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>14</b>       |  |           |
| Islets, Pancreatic                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 |  | <b>85</b> |
| Adenoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>10</b>       |  |           |
| Adenoma, Multiple                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>        |  |           |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID       |  |           |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|--|-----------|
|   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                 |  |           |
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b>                            | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |                 |  |           |
| <b>6.0W/kg(GSM)chr</b>  | 4 | 4 | 4 | 4 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                 |  |           |
|   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |  |           |
|   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |                 |  |           |
|   | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |                 |  |           |
|   | 0 | 0 | 0 | 1 | 2 | 3 | 5 | 5 | 6 | 7 | 9 | 0 | 2 | 3 | 3 | 3 | 3 |                 |  |           |
|   | 1 | 3 | 7 | 3 | 7 | 1 | 6 | 7 | 3 | 6 | 3 | 9 | 3 | 4 | 5 | 5 | 5 |                 |  |           |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |  |           |
| Carcinoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>5</b>        |  |           |
| Parathyroid Gland Adenoma   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 |  | <b>81</b> |
| Pituitary Gland Schwannoma Malignant, Metastatic, Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 |  | <b>90</b> |
| Pars Distalis, Adenoma  |   |   |   |   | X |   |   | X |   |   | X |   |   |   |   |   |   |                 |  | <b>26</b> |
| Thyroid Gland Bilateral, C-cell, Adenoma                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 |  | <b>87</b> |
| C-cell, Adenoma   |   |   | X |   |   |   |   |   |   |   |   |   |   | X |   |   |   |                 |  | <b>1</b>  |
| C-cell, Carcinoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |  | <b>7</b>  |
| Follicular Cell, Carcinoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |  | <b>3</b>  |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |  | <b>1</b>  |
| <b>GENERAL BODY SYSTEM</b>  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |  |           |
| Tissue NOS Mediastinum, Chemodectoma Benign                       |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |                 |  | <b>5</b>  |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |  | <b>1</b>  |
| <b>GENITAL SYSTEM</b>   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |  |           |
| Coagulating Gland   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |  | <b>1</b>  |
| Epididymis  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 |  | <b>90</b> |
| Penis   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |  | <b>1</b>  |
| Preputial Gland Squamous Cell Carcinoma                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 |  | <b>90</b> |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |  | <b>1</b>  |
| Prostate  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 |  | <b>90</b> |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST  | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |
|--|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
|  | 7               | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |           |
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>6.0W/kg(GSM)chr    | 3               | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |           |
|  | 4               | 4 | 4 | 4 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |           |
| ANIMAL ID  | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |
|  | 1               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |           |
|  | 2               | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |           |
|  | 0               | 0 | 0 | 1 | 2 | 3 | 5 | 5 | 6 | 7 | 9 | 0 | 2 | 3 | 3 | 3 |           |
|  | 1               | 3 | 7 | 3 | 7 | 1 | 6 | 7 | 3 | 6 | 3 | 9 | 3 | 4 | 5 | 5 |           |
|  | <b>* TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Adenoma  |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>3</b>  |
| Seminal Vesicle  | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Testis   | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Interstitial Cell, Adenoma                               |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| <b>HEMATOPOIETIC SYSTEM</b>                              |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Bone Marrow  | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Hemangioma   |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Lymph Node   |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>12</b> |
| Lymph Node, Mandibular                                   | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Lymph Node, Mesenteric                                   | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>89</b> |
| Carcinoma, Metastatic, Intestine Small, Jejunum          |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Hemangiosarcoma  |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Spleen   | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Hemangiosarcoma  |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Capsule, Carcinoma, Metastatic, Intestine Small, Jejunum |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Thymus   | +               | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>86</b> |
| Thymoma Malignant  |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| <b>INTEGUMENTARY SYSTEM</b>                              |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Mammary Gland  | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>82</b> |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
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Lab: IIT

| DAY ON TEST                       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID |                 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------------|
|                                   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |           |                 |
| <b>HARLAN SPRAGUE DAWLEY RATS</b> | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |           |                 |
| <b>MALE</b>                       | 4 | 4 | 4 | 4 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |           |                 |
| <b>6.0W/kg(GSM)chr</b>            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                 |
|                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |           |                 |
|                                   | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |           |                 |
|                                   | 0 | 0 | 0 | 1 | 2 | 3 | 5 | 5 | 6 | 7 | 9 | 0 | 2 | 3 | 3 | 3 |           |                 |
|                                   | 1 | 3 | 7 | 3 | 7 | 1 | 6 | 7 | 3 | 6 | 9 | 3 | 4 | 5 |   |   |           | <b>* TOTALS</b> |

Fibroadenoma 2

Skin 90

Basal Cell Adenoma 1

Keratoacanthoma 2

Subcutaneous Tissue, Fibroma 5

Subcutaneous Tissue, Fibrosarcoma 2

Subcutaneous Tissue, Hibernoma 1

Subcutaneous Tissue, Lipoma 2

Subcutaneous Tissue, Sarcoma 1

**MUSCULOSKELETAL SYSTEM**

Bone 90

Skeletal Muscle 90

Diaphragm, Carcinoma, Metastatic, Intestine 1

Small, Jejunum

**NERVOUS SYSTEM**

Brain 90

Glioma Malignant 2

Meninges, Granular Cell Tumor Benign 3

Nerve Trigeminal 88

Peripheral Nerve, Sciatic 90

Peripheral Nerve, Tibial 88

Spinal Cord, Cervical 90

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>6.0W/kg(GSM)chr | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
|   | ANIMAL ID   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |          |
|   |             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |          |
|   |             | 4 | 4 | 4 | 4 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |          |
|   |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          |
|   |             | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |          |
|   |             | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |          |
|   |             | 0 | 0 | 0 | 1 | 2 | 3 | 5 | 5 | 6 | 7 | 9 | 0 | 2 | 3 | 3 |          |
|   |             | 1 | 3 | 7 | 3 | 7 | 1 | 6 | 7 | 3 | 6 | 3 | 9 | 3 | 4 | 5 |          |
| Spinal Cord, Lumbar                                   |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90       |
| Spinal Cord, Thoracic                                 |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90       |
| Trigeminal Ganglion                                   |             | M | M | + | + | M | + | + | + | + | + | + | + | + | + | + | 77       |
| <b>RESPIRATORY SYSTEM</b>                             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |
| Lung  |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90       |
| Sarcoma, Metastatic, Kidney                           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Nose  |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89       |
| Trachea   |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 86       |
| <b>SPECIAL SENSES SYSTEM</b>                          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |
| Eye   |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 83       |
| Harderian Gland                                       |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90       |
| Schwannoma Malignant                                  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2        |
| Lacrimal Gland  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2        |
| <b>URINARY SYSTEM</b>                                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |
| Kidney  |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90       |
| Sarcoma   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Bilateral, Renal Tubule, Adenoma                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Bilateral, Renal Tubule, Carcinoma                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |
| Renal Tubule, Adenoma                                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

|  |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |
|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>MALE</b> | DAY ON TEST            | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |           |
|  |                        | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |           |
|  |                        | 4 | 4 | 4 | 4 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |           |
|  | <b>6.0W/kg(GSM)chr</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|  | ANIMAL ID              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |           |
|  |                        | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |           |
|  |                        | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |           |
|  |                        | 0 | 0 | 0 | 1 | 2 | 3 | 5 | 5 | 6 | 7 | 9 | 0 | 2 | 3 | 3 |           |
|  |                        | 1 | 3 | 7 | 3 | 7 | 1 | 6 | 7 | 3 | 6 | 3 | 9 | 3 | 4 | 5 |           |
| <b>* TOTALS</b>                            |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Urinary Bladder                            |                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>85</b> |
| <b>SYSTEMIC LESIONS</b>                    |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Multiple Organ                             |                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Leukemia Mononuclear                       |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Lymphoma Malignant                         |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| Mesothelioma Malignant                     |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

\*\*\* END OF MALE DATA \*\*\*

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                              |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE</b><br><b>0.0W/kg(GSM)chr</b> | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                            |
|  |             | 2 | 2 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6                            |
|  |             | 0 | 6 | 5 | 6 | 6 | 8 | 8 | 9 | 9 | 9 | 0 | 1 | 2 | 3 | 3 | 3 | 4 | 5 | 5 | 5 | 6 | 7 | 0 | 1                            |
| ANIMAL ID  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                            |
|  | 6           | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 6                            |
|  | 6           | 1 | 6 | 3 | 4 | 3 | 9 | 7 | 0 | 1 | 1 | 8 | 8 | 2 | 5 | 6 | 3 | 0 | 5 | 0 | 2 | 2 | 8 | 4 | 2                            |
|  | 1           | 6 | 4 | 1 | 2 | 7 | 7 | 2 | 1 | 3 | 9 | 8 | 4 | 7 | 7 | 6 | 4 | 7 | 6 | 4 | 2 | 6 | 8 | 1 | 5                            |
|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>females<br/>(cont...)</b> |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                                | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + |
| Intestine Large, Colon                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum<br>Granular Cell Tumor Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum                                | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum<br>Leiomyosarcoma            | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | A | + | + | + | + | + | + | + | + |
| Liver<br>Hepatocellular Adenoma                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery<br>Adenocarcinoma, Metastatic, Uterus       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Oral Mucosa<br>Squamous Cell Carcinoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

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Route: Whole Body Exposure

Species/Strain: RATS/HSD

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Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0.0W/kg(GSM)chr | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | females<br>(cont...) |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                      |
| ANIMAL ID   | 2           | 2 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6                    |
|   | 0           | 6 | 5 | 6 | 6 | 8 | 8 | 9 | 9 | 9 | 0 | 1 | 2 | 3 | 3 | 3 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 7 | 0 | 1 | 2                    |
|   | 2           | 8 | 3 | 4 | 4 | 9 | 9 | 2 | 2 | 3 | 8 | 3 | 4 | 1 | 1 | 1 | 7 | 0 | 0 | 0 | 0 | 0 | 5 | 8 | 8 | 4 | 2                    |
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                    |
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                    |
|   | 6           | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6                    |
|   | 6           | 1 | 6 | 3 | 4 | 3 | 9 | 7 | 0 | 1 | 1 | 8 | 8 | 2 | 5 | 6 | 3 | 0 | 5 | 0 | 2 | 2 | 2 | 8 | 4 | 2 |                      |
|   | 1           | 6 | 4 | 1 | 2 | 7 | 7 | 2 | 1 | 3 | 9 | 9 | 4 | 7 | 6 | 4 | 7 | 7 | 6 | 4 | 2 | 6 | 8 | 1 | 5 | 2 |                      |

Sarcoma

---

Stomach, Glandular  
Sarcoma, Metastatic, Stomach, Forestomach +

---

Tongue  
Squamous Cell Carcinoma +  
X

CARDIOVASCULAR SYSTEM

Aorta +

---

Heart +

ENDOCRINE SYSTEM

Adrenal Cortex  
Adenoma +  
Carcinoma

---

Adrenal Medulla  
Pheochromocytoma Benign +

---

Islets, Pancreatic  
Adenoma +  
Carcinoma

---

Parathyroid Gland +

---

Pituitary Gland  
Pars Distalis, Adenoma +  
Pars Distalis, Adenoma, Multiple X X X X X X X X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

| DAY ON TEST   |   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANIMAL ID   |   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0.0W/kg(GSM)chr | 0 | 2 | 2 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 |
|   | 0 | 6 | 6 | 5 | 6 | 6 | 8 | 8 | 9 | 9 | 9 | 9 | 0 | 1 | 2 | 3 | 3 | 3 | 3 | 4 | 5 | 5 | 6 | 7 |
|   | 2 | 8 | 8 | 3 | 4 | 4 | 9 | 9 | 2 | 2 | 3 | 3 | 8 | 3 | 4 | 1 | 1 | 1 | 7 | 0 | 0 | 0 | 5 | 8 |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 6 | 6 | 6 |
|   | 6 | 1 | 6 | 3 | 4 | 3 | 9 | 7 | 0 | 1 | 1 | 8 | 8 | 2 | 5 | 6 | 3 | 0 | 5 | 0 | 2 | 2 | 2 | 4 |
|   | 1 | 6 | 4 | 1 | 2 | 7 | 7 | 2 | 1 | 3 | 9 | 4 | 7 | 6 | 6 | 4 | 7 | 6 | 4 | 7 | 6 | 4 | 2 | 5 |

females (cont...)

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pars Distalis, Carcinoma   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thyroid Gland              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Adenoma            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Follicular Cell, Carcinoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**GENERAL BODY SYSTEM**

|                                 |  |  |  |   |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------------|--|--|--|---|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS                      |  |  |  |   |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Abdominal, Schwannoma Malignant |  |  |  | + |  |  |  |  |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**GENITAL SYSTEM**

|                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cystadenoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Granulosa Cell Tumor Benign    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Granulosa Cell Tumor Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| Sertoli Cell Tumor Benign      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Oviduct                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Uterus                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hemangiosarcoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Polyp Stromal                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |
| Polyp Stromal, Multiple        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Schwannoma Malignant           |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |
| Cervix, Leiomyosarcoma         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Cervix, Schwannoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
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Experiment Number: 20105 - 59

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CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0.0W/kg(GSM)chr | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|   |             | 2 | 2 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |   |
|   |             | 0 | 6 | 5 | 6 | 6 | 8 | 8 | 9 | 9 | 9 | 0 | 1 | 2 | 3 | 3 | 3 | 4 | 5 | 5 | 5 | 5 | 6 | 7 | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|   | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   | 6           | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |   |
|   | 6           | 1 | 6 | 3 | 4 | 3 | 9 | 7 | 0 | 1 | 1 | 8 | 8 | 2 | 5 | 6 | 3 | 0 | 5 | 0 | 2 | 2 | 2 | 2 | 2 | 8 | 8 | 4 | 4 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |   |   |
|   | 1           | 6 | 4 | 1 | 2 | 7 | 7 | 2 | 1 | 3 | 9 | 8 | 4 | 7 | 7 | 6 | 4 | 7 | 6 | 4 | 6 | 2 | 6 | 4 | 8 | 8 | 1 | 5 |   |   |   |   |   |   |   |   |   |   |

females  
(cont...)

Vagina  
Schwannoma Malignant  
Schwannoma Malignant, Metastatic, Uterus

**HEMATOPOIETIC SYSTEM**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Lymph Node             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemangiosarcoma        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Thymus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymoma Benign         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thymoma Malignant      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**INTEGUMENTARY SYSTEM**

|                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Adenocarcinoma           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Adenocarcinoma, Multiple |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adenoma                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adenoma, Multiple        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Fibroadenoma             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Fibroadenoma, Multiple   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Skin                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically



Experiment Number: 20105 - 59

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

| DAY ON TEST                                  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | females<br>(cont...) |   |
|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE         |  | 2 | 2 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 |                      |   |
| 0.0W/kg(GSM)chr                              |  | 0 | 6 | 5 | 6 | 6 | 8 | 8 | 9 | 9 | 9 | 0 | 1 | 2 | 3 | 3 | 3 | 4 | 5 | 5 | 5 | 5 | 6 | 7 | 0 | 1 |                      | 2 |
| ANIMAL ID                                    |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                    |   |
|  |  | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6                    |   |
|  |  | 6 | 1 | 6 | 3 | 4 | 3 | 9 | 7 | 0 | 1 | 1 | 8 | 8 | 2 | 5 | 6 | 3 | 0 | 5 | 0 | 2 | 2 | 2 | 8 | 4 | 2                    |   |
|  |  | 1 | 6 | 4 | 1 | 2 | 7 | 7 | 2 | 1 | 3 | 9 | 8 | 4 | 7 | 7 | 6 | 4 | 7 | 6 | 4 | 6 | 4 | 8 | 1 | 5 | 2                    |   |
| Lung   |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                    |   |
| Nose   |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                    |   |
| Trachea                                      |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                    |   |
| <b>SPECIAL SENSES SYSTEM</b>                 |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |
| Eye  |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                    |   |
| Harderian Gland                              |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                    |   |
| <b>URINARY SYSTEM</b>                        |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |
| Kidney                                       |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                    |   |
| Bilateral, Renal Tubule, Carcinoma           |  |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |                      |   |
| Renal Tubule, Adenoma                        |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |
| Urinary Bladder                              |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                    |   |
| Leiomyosarcoma                               |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |
| Schwannoma Malignant, Metastatic, Tissue Nos |  |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |
| <b>SYSTEMIC LESIONS</b>                      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |
| Multiple Organ                               |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                    |   |
| Lymphoma Malignant                           |  |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |                      |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

| DAY ON TEST                                  |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE</b> | <b>0.0W/kg(GSM)chr</b> | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|  |                        | 2 | 2 | 3 | 3 | 4 | 5 | 6 | 6 | 6 | 6 | 6 | 9 | 0 | 0 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|  |                        | 2 | 9 | 4 | 6 | 1 | 6 | 0 | 2 | 2 | 2 | 2 | 8 | 0 | 7 | 9 | 1 | 2 | 9 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|  |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | ANIMAL ID              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |                        | 6 | 7 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |                        | 9 | 1 | 7 | 0 | 4 | 4 | 1 | 0 | 6 | 7 | 9 | 5 | 9 | 4 | 2 | 2 | 3 | 3 | 3 | 7 | 8 | 0 | 1 | 2 | 2 | 3 | 3 |
|  |                        | 0 | 0 | 4 | 3 | 8 | 3 | 5 | 8 | 5 | 1 | 5 | 3 | 9 | 7 | 8 | 3 | 0 | 3 | 5 | 0 | 6 | 4 | 0 | 1 | 9 | 2 | 2 |

females  
(cont...)

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                                | + | A | + | + | + | + | + | + | + | + | A | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon                                | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum<br>Granular Cell Tumor Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum                             | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum                                | + | A | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum<br>Leiomyosarcoma            | + | A | + | + | A | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver<br>Hepatocellular Adenoma                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesentery<br>Adenocarcinoma, Metastatic, Uterus       |   |   |   |   | + |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   | + |   |   |   |   | X |
| Oral Mucosa<br>Squamous Cell Carcinoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE<br/>0.0W/kg(GSM)chr</b> | DAY ON TEST | 0622  | 0623  | 0633  | 0641  | 0656  | 0660  | 0662  | 0662  | 0662  | 0662  | 0662  | 0662  | 0662  | 0662  | 0662  | 0662  | 0662  | 0662  | 0662  | 0662  | 0662  | 0662  | 0662  | 0662  | 0662  | 0662  | 0662  | 0662  | 0662  | 0662  | 0662  | 0662  | 0662  | 0662  | 0662  |
|  | ANIMAL ID   | 00690 | 00671 | 00667 | 00670 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 |

females (cont...)

Sarcoma

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Stomach, Glandular Sarcoma, Metastatic, Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Tongue Squamous Cell Carcinoma

CARDIOVASCULAR SYSTEM

|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

ENDOCRINE SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex Adenoma Carcinoma  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla Pheochromocytoma Benign                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Islets, Pancreatic Adenoma Carcinoma                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |
| Parathyroid Gland   | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Pituitary Gland Pars Distalis, Adenoma Pars Distalis, Adenoma, Multiple | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
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Experiment Number: 20105 - 59

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Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                          |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS FEMALE</b><br><b>0.0W/kg(GSM)chr</b> | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <b>females (cont...)</b> |
|  |             | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                          |
|  |             | 2 | 2 | 3 | 3 | 4 | 5 | 6 | 6 | 6 | 6 | 6 | 9 | 0 | 0 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 |                          |
|  | ANIMAL ID   | 2 | 9 | 4 | 6 | 1 | 6 | 0 | 2 | 2 | 2 | 8 | 0 | 7 | 9 | 1 | 2 | 9 | 7 | 7 | 7 | 7 | 8 | 8 |                          |
|  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |                          |
|  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |                          |
|  | 6           | 7 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 6 |   |                          |
|  | 9           | 1 | 7 | 0 | 4 | 4 | 1 | 0 | 6 | 7 | 9 | 5 | 9 | 4 | 2 | 2 | 3 | 3 | 3 | 7 | 8 | 0 | 1 |   |                          |
|  | 0           | 0 | 4 | 3 | 8 | 3 | 5 | 8 | 5 | 1 | 5 | 3 | 9 | 7 | 8 | 3 | 0 | 3 | 5 | 0 | 6 | 4 | 2 |   |                          |

Pars Distalis, Carcinoma

Thyroid Gland

C-cell, Adenoma

Follicular Cell, Carcinoma

+ +

**GENERAL BODY SYSTEM**

Tissue NOS

Abdominal, Schwannoma Malignant

+ + +

**GENITAL SYSTEM**

Clitoral Gland

+ + + + + + + + + M M + + + + + + + + + + + M +

Ovary

Cystadenoma

Granulosa Cell Tumor Benign

Granulosa Cell Tumor Malignant

Sertoli Cell Tumor Benign

+ +

Oviduct

Uterus

Adenocarcinoma

Hemangiosarcoma

Polyp Stromal

Polyp Stromal, Multiple

Schwannoma Malignant

Cervix, Leiomyosarcoma

Cervix, Schwannoma Malignant

+ + + + + + + + + + + + + + + + + + X X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

| DAY ON TEST                                  |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE</b> |                        | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|  |                        | 2 | 2 | 3 | 3 | 4 | 5 | 6 | 6 | 6 | 6 | 6 | 9 | 0 | 0 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|  |                        | 2 | 9 | 4 | 6 | 1 | 6 | 0 | 2 | 2 | 2 | 8 | 0 | 7 | 9 | 1 | 2 | 9 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 |
|  | <b>0.0W/kg(GSM)chr</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | ANIMAL ID              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |                        | 6 | 7 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |                        | 9 | 1 | 7 | 0 | 4 | 4 | 1 | 0 | 6 | 7 | 9 | 5 | 9 | 4 | 2 | 2 | 3 | 3 | 3 | 7 | 8 | 0 | 1 | 2 | 2 | 3 | 3 |   |
|  |                        | 0 | 0 | 4 | 3 | 8 | 3 | 5 | 8 | 5 | 1 | 5 | 3 | 9 | 7 | 8 | 2 | 3 | 0 | 3 | 5 | 0 | 6 | 4 | 0 | 9 | 2 | 2 |   |

females  
(cont...)

Vagina  
Schwannoma Malignant  
Schwannoma Malignant, Metastatic, Uterus

**HEMATOPOIETIC SYSTEM**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node             |   |   | + |   |   |   |   |   |   | + |   |   | + |   | + | + | + |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemangiosarcoma        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thymus                 | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymoma Benign         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thymoma Malignant      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**INTEGUMENTARY SYSTEM**

|                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma           |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | X |   | X |   |   |   |   |   |   |   |   |   |
| Adenocarcinoma, Multiple | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adenoma                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   |
| Adenoma, Multiple        |   |   |   |   |   |   |   |   | X | X |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fibroadenoma             |   |   | X | X |   |   |   | X | X |   |   | X |   |   | X |   |   |   |   |   | X |   |   |   |   |   | X |   |
| Fibroadenoma, Multiple   |   |   |   |   |   | X |   |   |   | X | X | X |   |   | X |   |   | X | X |   |   |   |   |   |   | X |   |   |
| Skin                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

|   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0.0W/kg(GSM)chr | DAY ON TEST | 0622  | 0623  | 0633  | 0644  | 0655  | 0666  | 0677  | 0688  | 0699  | 0700  | 0707  | 0717  | 0727  | 0737  | 0747  | 0757  | 0767  | 0777  | 0788  | 0798  | 0798  | females<br>(cont...) |
|   | ANIMAL ID   | 00690 | 00776 | 00867 | 00954 | 01041 | 01135 | 01228 | 01315 | 01406 | 01495 | 01584 | 01673 | 01762 | 01851 | 01940 | 02029 | 02118 | 02207 | 02296 | 02385 | 02474 |                      |
|   |             | 00690 | 00776 | 00867 | 00954 | 01041 | 01135 | 01228 | 01315 | 01406 | 01495 | 01584 | 01673 | 01762 | 01851 | 01940 | 02029 | 02118 | 02207 | 02296 | 02385 | 02474 |                      |

Subcutaneous Tissue, Fibroma  
Subcutaneous Tissue, Malignant Fibrous Histiocytoma  
Subcutaneous Tissue, Sarcoma

X

MUSCULOSKELETAL SYSTEM

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

NERVOUS SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain<br>Carcinoma, Metastatic, Pituitary Gland<br>Meninges, Granular Cell Tumor Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nerve Trigeminal  | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Sciatic   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Tibial  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Cervical   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Lumbar   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Thoracic   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trigeminal Ganglion   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + |

RESPIRATORY SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically



Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0.0W/kg(GSM)chr                              | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | females<br>(cont...) |                  |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------------|------------------|
|  | ANIMAL ID        |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                      |                  |
|  | 0<br>6<br>2<br>2 | 0<br>6<br>2<br>9 | 0<br>6<br>3<br>4 | 0<br>6<br>3<br>6 | 0<br>6<br>4<br>1 | 0<br>6<br>5<br>6 | 0<br>6<br>6<br>0 | 0<br>6<br>6<br>2 | 0<br>6<br>6<br>2 | 0<br>6<br>6<br>2 | 0<br>6<br>6<br>8 | 0<br>6<br>9<br>0 | 0<br>6<br>0<br>7 | 0<br>6<br>7<br>9 | 0<br>6<br>7<br>1 | 0<br>6<br>7<br>1 | 0<br>6<br>7<br>9 | 0<br>6<br>7<br>3 | 0<br>6<br>7<br>3 | 0<br>6<br>7<br>3 | 0<br>6<br>7<br>3 | 0<br>6<br>7<br>8 | 0<br>6<br>7<br>8 | 0<br>6<br>7<br>8 |                      | 0<br>6<br>7<br>8 |
| Lung   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                    |                  |
| Nose   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                    |                  |
| Trachea  | +                | A                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |                      |                  |
| <b>SPECIAL SENSES SYSTEM</b>   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                      |                  |
| Eye  | +                | A                | +                | +                | +                | +                | +                | +                | +                | +                | +                | A                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |                      |                  |
| Harderian Gland  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |                      |                  |
| <b>URINARY SYSTEM</b>  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                      |                  |
| Kidney<br>Bilateral, Renal Tubule, Carcinoma<br>Renal Tubule, Adenoma                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |                      |                  |
| Urinary Bladder<br>Leiomyosarcoma<br>Schwannoma Malignant, Metastatic, Tissue<br>Nos | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | M                | +                | +                | A                | +                | +                | +                | +                | +                | +                | +                | +                |                  |                      |                  |
| <b>SYSTEMIC LESIONS</b>  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                      |                  |
| Multiple Organ<br>Lymphoma Malignant   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |                  |                      |                  |
|  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  | X                | X                |                  |                  |                  |                  |                  |                  |                  |                  |                      |                  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
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Experiment Number: 20105 - 59

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Date Report Requested: 01/02/2018

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Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS FEMALE</b><br><b>0.0W/kg(GSM)chr</b> | DAY ON TEST | 0738  | 0738  | 0738  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | females (cont...) |
|  | ANIMAL ID   | 00636 | 00657 | 00677 | 00686 | 00696 | 00706 | 00716 | 00726 | 00736 | 00746 | 00756 | 00766 | 00776 | 00786 | 00796 | 00806 | 00816 | 00826 | 00836 | 00846 | 00856 | 00866 | 00876 | 00886 |                   |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum<br>Granular Cell Tumor Benign | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Small, Duodenum                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum<br>Leiomyosarcoma            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver<br>Hepatocellular Adenoma                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery<br>Adenocarcinoma, Metastatic, Uterus       |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Oral Mucosa<br>Squamous Cell Carcinoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
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Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                          |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS FEMALE</b><br><b>0.0W/kg(GSM)chr</b> | DAY ON TEST | 0738  | 0738  | 0738  | 0739  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | <b>females (cont...)</b> |
|  | ANIMAL ID   | 00636 | 00656 | 00677 | 00679 | 00663 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 |                          |

Sarcoma

X

Stomach, Glandular

+ +

Sarcoma, Metastatic, Stomach, Forestomach

X

Tongue

Squamous Cell Carcinoma

CARDIOVASCULAR SYSTEM

Aorta

+ +

Heart

+ +

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

Adenoma

Carcinoma

X

Adrenal Medulla

+ + + + I + + + + + + + + + + + + + + + + + + +

Pheochromocytoma Benign

X

Islets, Pancreatic

+ +

Adenoma

X

Carcinoma

X

Parathyroid Gland

+ + + + + + M + + + + + + + + + + + + + + + + +

Pituitary Gland

+ +

Pars Distalis, Adenoma

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

Pars Distalis, Adenoma, Multiple

X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
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First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

| DAY ON TEST                       |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS FEMALE |  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 0.0W/kg(GSM)chr                   |  | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| ANIMAL ID                         |  | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                   |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                   |  | 6 | 6 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|                                   |  | 3 | 5 | 0 | 0 | 0 | 6 | 7 | 8 | 8 | 9 | 9 | 9 | 0 | 1 | 4 | 5 | 5 | 6 | 8 | 9 | 9 | 0 | 1 | 3 | 4 | 4 |
|                                   |  | 6 | 6 | 7 | 9 | 9 | 3 | 8 | 3 | 7 | 4 | 8 | 5 | 6 | 8 | 9 | 9 | 1 | 6 | 8 | 1 | 6 | 8 | 9 | 8 | 9 | 9 |

females (cont...)

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pars Distalis, Carcinoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thyroid Gland              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Adenoma            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | X |   |   |   |
| Follicular Cell, Carcinoma |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

GENERAL BODY SYSTEM

|                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  |  |  |  |
| Abdominal, Schwannoma Malignant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |

GENITAL SYSTEM

|                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cystadenoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Granulosa Cell Tumor Benign    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Granulosa Cell Tumor Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sertoli Cell Tumor Benign      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Oviduct                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Uterus                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hemangiosarcoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Polyp Stromal                  |   |   |   | X | X |   |   | X |   | X | X | X |   | X |   | X |   | X |   | X |   |   |   |   |   |   |   |
| Polyp Stromal, Multiple        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Schwannoma Malignant           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Cervix, Leiomyosarcoma         |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Cervix, Schwannoma Malignant   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS FEMALE</b><br><b>0.0W/kg(GSM)chr</b> | DAY ON TEST | 0738  | 0738  | 0738  | 0739  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | females<br>(cont...) |
|  | ANIMAL ID   | 00636 | 00677 | 00677 | 00699 | 00666 | 00666 | 00666 | 00666 | 00666 | 00670 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 |                      |
|  |             | 00636 | 00677 | 00677 | 00699 | 00666 | 00666 | 00666 | 00666 | 00666 | 00670 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 |                      |

Subcutaneous Tissue, Fibroma  
 Subcutaneous Tissue, Malignant Fibrous Histiocytoma  
 Subcutaneous Tissue, Sarcoma

MUSCULOSKELETAL SYSTEM

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

NERVOUS SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Pituitary Gland |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Meninges, Granular Cell Tumor Benign   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nerve Trigeminal                       | + | + | + | + | M | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Sciatic              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Tibial               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Cervical                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Lumbar                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Thoracic                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trigeminal Ganglion                    | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | M | + | + |

RESPIRATORY SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0.0W/kg(GSM)chr | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | females<br>(cont...) |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                      |
|   | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                      |
| ANIMAL ID   | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |                      |
|   | 8           | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                      |
|   | 6           | 6 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 6 | 6 |                      |
| 3   | 5           | 0 | 0 | 0 | 6 | 7 | 8 | 8 | 8 | 9 | 9 | 0 | 1 | 4 | 5 | 5 | 6 | 8 | 9 | 9 | 9 | 0 | 1 | 3 |                      |
| 6   | 6           | 7 | 9 | 9 | 3 | 8 | 3 | 7 | 4 | 8 | 5 | 1 | 1 | 6 | 8 | 9 | 9 | 1 | 1 | 6 | 8 | 8 | 9 | 4 |                      |
| Lung  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |                      |
| Nose  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |                      |
| Trachea   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |                      |
| <b>SPECIAL SENSES SYSTEM</b>                            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
| Eye   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |                      |
| Harderian Gland   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |                      |
| <b>URINARY SYSTEM</b>                                   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
| Kidney  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |                      |
| Bilateral, Renal Tubule, Carcinoma                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
| Renal Tubule, Adenoma                                   |             |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |                      |
| Urinary Bladder   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |                      |
| Leiomyosarcoma  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
| Schwannoma Malignant, Metastatic, Tissue Nos            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
| <b>SYSTEMIC LESIONS</b>                                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
| Multiple Organ  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |                      |
| Lymphoma Malignant                                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                       |   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS</b> | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|                                   | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| <b>FEMALE</b>                     | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 |
| <b>0.0W/kg(GSM)chr</b>            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID                         | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|                                   | 5 | 5 | 7 | 9 | 2 | 4 | 6 | 7 | 7 | 8 | 9 | 1 | 2 | 5 | 5 | 5 | 5 |
|                                   | 1 | 5 | 7 | 2 | 1 | 5 | 0 | 8 | 5 | 9 | 0 | 3 | 4 | 2 | 4 | 4 | 4 |
| <b>* TOTALS</b>                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ALIMENTARY SYSTEM**

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Intestine Large, Cecum             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 84 |
| Intestine Large, Colon             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Intestine Large, Rectum            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Granular Cell Tumor Benign         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Small, Duodenum          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| Intestine Small, Ileum             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 86 |
| Intestine Small, Jejunum           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 83 |
| Leiomyosarcoma                     |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | 1  |
| Liver                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Hepatocellular Adenoma             |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 7  |
| Mesentery                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4  |
| Adenocarcinoma, Metastatic, Uterus |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Oral Mucosa                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Squamous Cell Carcinoma            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pancreas                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Salivary Glands                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Stomach, Forestomach               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



Experiment Number: 20105 - 59

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Species/Strain: RATS/HSD

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CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                               | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |
|---|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
|   | 7               | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |           |
| <b>HARLAN SPRAGUE DAWLEY RATS FEMALE</b>  | 4               | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |           |
|   | 1               | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |           |
| <b>0.0W/kg(GSM)chr</b>                    | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |
|   | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |
| ANIMAL ID                                 | 6               | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |           |
|   | 5               | 5 | 7 | 9 | 2 | 4 | 6 | 7 | 7 | 8 | 9 | 1 | 2 | 5 | 4 |           |
|   | 1               | 5 | 7 | 2 | 1 | 5 | 0 | 8 | 5 | 9 | 0 | 3 | 4 | 2 | 4 |           |
|   | <b>* TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Sarcoma                                   |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Stomach, Glandular                        | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Sarcoma, Metastatic, Stomach, Forestomach |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Tongue                                    |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Squamous Cell Carcinoma                   |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| <b>CARDIOVASCULAR SYSTEM</b>              |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Aorta                                     | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Heart                                     | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| <b>ENDOCRINE SYSTEM</b>                   |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Adrenal Cortex                            | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Adenoma                                   | X               |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Carcinoma                                 |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Adrenal Medulla                           | +               | + | + | + | + | + | + | + | + | M | M | + | + | + | + | <b>86</b> |
| Pheochromocytoma Benign                   |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Islets, Pancreatic                        | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Adenoma                                   |                 |   |   | X |   |   |   | X |   | X |   |   |   |   |   | <b>5</b>  |
| Carcinoma                                 |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| Parathyroid Gland                         | +               | + | + | M | + | + | + | + | + | + | + | + | + | + | + | <b>87</b> |
| Pituitary Gland                           | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Pars Distalis, Adenoma                    | X               | X | X |   |   | X | X |   | X |   | X |   | X |   | X | <b>42</b> |
| Pars Distalis, Adenoma, Multiple          |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

| DAY ON TEST                              |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS FEMALE</b> |                        | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|  |                        | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|  |                        | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 |
|  | <b>0.0W/kg(GSM)chr</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ANIMAL ID                                |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |                        | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |                        | 5 | 5 | 7 | 9 | 2 | 4 | 6 | 7 | 7 | 8 | 9 | 1 | 2 | 5 | 5 | 4 |
|  |                        | 1 | 5 | 7 | 2 | 1 | 5 | 0 | 8 | 5 | 9 | 0 | 3 | 4 | 2 | 4 | 4 |
| <b>* TOTALS</b>                          |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Pars Distalis, Carcinoma

1

Thyroid Gland

+ + + + + + + + + + + + + + +

90

C-cell, Adenoma

X

6

Follicular Cell, Carcinoma

1

**GENERAL BODY SYSTEM**

Tissue NOS

+

8

Abdominal, Schwannoma Malignant

1

**GENITAL SYSTEM**

Clitoral Gland

+ + + + + + + + + + + + + + +

87

Ovary

+ + + + + + + + + + + + + + +

90

Cystadenoma

X

1

Granulosa Cell Tumor Benign

1

Granulosa Cell Tumor Malignant

X

2

Sertoli Cell Tumor Benign

X

1

Oviduct

+

1

Uterus

+ + + + + + + + + + + + + + +

90

Adenocarcinoma

X

3

Hemangiosarcoma

X

2

Polyp Stromal

X

X

X

15

Polyp Stromal, Multiple

1

Schwannoma Malignant

1

Cervix, Leiomyosarcoma

1

Cervix, Schwannoma Malignant

1

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>0.0W/kg(GSM)chr</b> | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|  | ANIMAL ID   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|  |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |   |
|  |             | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |   |
|  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|  |             | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |   |
|  |             | 5 | 5 | 7 | 9 | 2 | 4 | 6 | 7 | 7 | 8 | 9 | 1 | 2 | 5 |   |
|  |             | 1 | 5 | 7 | 2 | 1 | 5 | 0 | 8 | 5 | 9 | 0 | 3 | 4 | 2 |   |
| <b>* TOTALS</b>  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

|  |          |
|--|----------|
| Vagina                                   | <b>2</b> |
| Schwannoma Malignant                     | <b>1</b> |
| Schwannoma Malignant, Metastatic, Uterus | <b>1</b> |

**HEMATOPOIETIC SYSTEM**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Bone Marrow            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Lymph Node             |   |   |   |   |   |   |   |   | + | + |   |   |   |   | + | <b>13</b> |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Spleen                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Hemangiosarcoma        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Thymus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>87</b> |
| Thymoma Benign         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Thymoma Malignant      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

**INTEGUMENTARY SYSTEM**

|                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Mammary Gland            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Adenocarcinoma           |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | <b>9</b>  |
| Adenocarcinoma, Multiple |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Adenoma                  |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | <b>4</b>  |
| Adenoma, Multiple        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>4</b>  |
| Fibroadenoma             | X |   | X | X |   | X |   | X | X |   | X | X |   |   |   | <b>34</b> |
| Fibroadenoma, Multiple   |   | X |   |   | X |   |   |   | X |   |   |   | X | X |   | <b>29</b> |
| Skin                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>0.0W/kg(GSM)chr</b> | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
|  | ANIMAL ID   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |  |
|  |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |  |
|  |             | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |  |
|  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
|  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
|  |             | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |  |
|  |             | 5 | 5 | 7 | 9 | 2 | 4 | 6 | 6 | 7 | 7 | 8 | 9 | 1 | 2 |  |
|  |             | 1 | 5 | 7 | 2 | 1 | 5 | 0 | 8 | 5 | 9 | 0 | 3 | 4 | 2 |  |
| <b>* TOTALS</b>  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

|   |   |   |
|---|---|---|
| Subcutaneous Tissue, Fibroma                        | X | 2 |
| Subcutaneous Tissue, Malignant Fibrous Histiocytoma |   | 1 |
| Subcutaneous Tissue, Sarcoma                        |   | 2 |

**MUSCULOSKELETAL SYSTEM**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |

**NERVOUS SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Brain                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 90 |
| Carcinoma, Metastatic, Pituitary Gland |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |
| Meninges, Granular Cell Tumor Benign   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |
| Nerve Trigeminal                       | + | + | + | + | + | + | + | + | + | + | + | + | M | + | 84 |    |
| Peripheral Nerve, Sciatic              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |    |
| Peripheral Nerve, Tibial               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |    |
| Spinal Cord, Cervical                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |    |
| Spinal Cord, Lumbar                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |    |
| Spinal Cord, Thoracic                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |    |
| Trigeminal Ganglion                    | + | + | + | + | + | M | + | + | + | M | + | + | + | + | 81 |    |

**RESPIRATORY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0.0W/kg(GSM)chr | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|   | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>5      | 0<br>7<br>4<br>5      | 0<br>7<br>4<br>5      |                       |
| ANIMAL ID   | 0<br>0<br>6<br>5<br>1 | 0<br>0<br>6<br>5<br>5 | 0<br>0<br>6<br>7<br>7 | 0<br>0<br>6<br>9<br>2 | 0<br>0<br>6<br>2<br>1 | 0<br>0<br>6<br>4<br>5 | 0<br>0<br>6<br>6<br>0 | 0<br>0<br>6<br>4<br>8 | 0<br>0<br>6<br>6<br>5 | 0<br>0<br>6<br>7<br>9 | 0<br>0<br>6<br>7<br>9 | 0<br>0<br>6<br>8<br>0 | 0<br>0<br>6<br>9<br>3 | 0<br>0<br>6<br>1<br>4 | 0<br>0<br>6<br>2<br>2 | 0<br>0<br>6<br>5<br>4 |
| Lung  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |
| Nose  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |
| Trachea   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 89                    |
| <b>SPECIAL SENSES SYSTEM</b>                            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Eye   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 88                    |
| Harderian Gland   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |
| <b>URINARY SYSTEM</b>                                   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Kidney  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |
| Bilateral, Renal Tubule, Carcinoma                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |
| Renal Tubule, Adenoma                                   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |
| Urinary Bladder   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 88                    |
| Leiomyosarcoma  |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |
| Schwannoma Malignant, Metastatic, Tissue Nos            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |
| <b>SYSTEMIC LESIONS</b>                                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Multiple Organ  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |
| Lymphoma Malignant                                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 5                     |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

| DAY ON TEST                       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS FEMALE | 1 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |   |
| 1.5W/kg(GSM)chr                   | 2 | 3 | 6 | 6 | 8 | 9 | 9 | 9 | 3 | 4 | 4 | 7 | 7 | 8 | 9 | 0 | 2 | 2 | 3 | 5 | 5 | 5 | 8 | 9 | 9 | 9 | 9 |   |
| ANIMAL ID                         | 3 | 2 | 4 | 4 | 0 | 3 | 3 | 3 | 1 | 5 | 5 | 6 | 8 | 4 | 7 | 2 | 2 | 6 | 1 | 0 | 4 | 7 | 2 | 0 | 0 | 6 | 6 |   |
|                                   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                   | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 8 | 8 | 8 | 9 | 9 | 9 | 8 | 8 | 8 | 9 | 8 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
|                                   | 7 | 7 | 3 | 8 | 9 | 5 | 0 | 1 | 1 | 1 | 9 | 6 | 0 | 1 | 0 | 3 | 4 | 1 | 8 | 0 | 4 | 2 | 4 | 8 | 8 | 8 | 8 |   |
|                                   | 3 | 0 | 6 | 4 | 7 | 2 | 2 | 1 | 7 | 6 | 4 | 4 | 5 | 9 | 0 | 8 | 4 | 1 | 8 | 9 | 7 | 7 | 6 | 0 | 0 | 0 | 0 |   |

females (cont...)

ALIMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum  | + | + | + | + | A | + | + | + | + | + | + | + | + | A | A | + | + | A | + | + | + | + | A | + | + | + | + |
| Intestine Large, Colon  | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum<br>Serosa, Sarcoma, Metastatic, Uterus                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum<br>Adenocarcinoma   | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | A | + | + |
| Intestine Small, Ileum  | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | A | + | A | + | + | + | + | + | A | A | + | + |
| Intestine Small, Jejunum<br>Leiomyosarcoma<br>Serosa, Sarcoma Stromal, Metastatic, Uterus | + | + | + | + | A | + | + | + | + | + | + | + | + | A | A | + | + | A | A | + | + | + | + | A | A | + | + |
| Liver<br>Adenocarcinoma, Metastatic, Intestine Small,<br>Duodenum                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Kidney   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma, Metastatic, Uncertain Primary Site   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocellular Adenoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocellular Adenoma, Multiple  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocellular Carcinoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sarcoma Stromal, Metastatic, Uterus   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Serosa, Adenocarcinoma, Metastatic, Uterus  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesentery   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS FEMALE |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ANIMAL ID | females (cont...) |
|-------------|-----------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|-------------------|
|             | 01                                | 03 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 05 | 05 | 05 | 05 | 05 | 05 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 |           |                   |
| 1           | 0                                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0         |                   |
| 2           | 3                                 | 3  | 6  | 6  | 8  | 9  | 9  | 9  | 3  | 4  | 4  | 7  | 7  | 8  | 9  | 0  | 2  | 2  | 3  | 5  | 5  | 8  | 9  | 9  | 9         |                   |
| 3           | 2                                 | 2  | 4  | 4  | 0  | 3  | 3  | 3  | 1  | 5  | 5  | 6  | 8  | 4  | 7  | 2  | 2  | 6  | 1  | 0  | 4  | 7  | 2  | 0  | 6         |                   |
| 0           | 0                                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0         |                   |
| 0           | 0                                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0         |                   |
| 8           | 8                                 | 8  | 8  | 8  | 8  | 8  | 9  | 9  | 9  | 8  | 8  | 8  | 9  | 9  | 9  | 8  | 8  | 8  | 9  | 8  | 9  | 8  | 8  | 8  | 8         |                   |
| 7           | 7                                 | 3  | 8  | 9  | 5  | 0  | 1  | 1  | 1  | 9  | 6  | 0  | 1  | 0  | 3  | 4  | 4  | 1  | 8  | 0  | 4  | 2  | 4  | 8  |           |                   |
| 3           | 0                                 | 6  | 4  | 7  | 2  | 2  | 1  | 7  | 6  | 4  | 4  | 5  | 9  | 0  | 8  | 4  | 1  | 8  | 9  | 7  | 6  | 6  | 8  | 0  |           |                   |

Adenocarcinoma, Metastatic, Intestine Small, Duodenum

X

Sarcoma Stromal, Metastatic, Uterus

X

Pancreas

+ +

Adenocarcinoma, Metastatic, Intestine Small, Duodenum

X

Adenocarcinoma, Metastatic, Uterus

Carcinoma, Metastatic, Uncertain Primary Site

Sarcoma Stromal, Metastatic, Uterus

X

Salivary Glands

+ +

Stomach, Forestomach

+ +

Stomach, Glandular

+ +

CARDIOVASCULAR SYSTEM

Aorta

+ +

Heart

+ +

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

Adenocarcinoma, Metastatic, Intestine Small, Duodenum

X

Adenoma

X

X

Sarcoma Stromal, Metastatic, Uterus

X

Adrenal Medulla

+ +

Pheochromocytoma Benign

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018  
 Time Report Requested: 11:58:55  
 First Dose M/F: 09/16/12 / 09/16/12  
 Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS FEMALE |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ANIMAL ID | females (cont...) |
|-------------|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-------------------|
|             | 0                                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                   |
| 1           | 3                                 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6         | 0                 |
| 2           | 3                                 | 6 | 6 | 8 | 9 | 9 | 9 | 9 | 3 | 4 | 4 | 7 | 7 | 8 | 9 | 0 | 2 | 2 | 3 | 5 | 5 | 8 | 9 | 9 | 9         | 0                 |
| 3           | 2                                 | 4 | 4 | 0 | 3 | 3 | 3 | 1 | 5 | 5 | 6 | 8 | 4 | 7 | 2 | 2 | 6 | 1 | 0 | 4 | 7 | 2 | 0 | 6 | 6         | 0                 |
| 0           | 0                                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         | 0                 |
| 0           | 0                                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         | 0                 |
| 8           | 8                                 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 8 | 8 | 8 | 9 | 9 | 9 | 8 | 8 | 9 | 8 | 9 | 8 | 8 | 8 | 8 | 8         | 8                 |
| 7           | 7                                 | 3 | 8 | 9 | 5 | 0 | 1 | 1 | 1 | 9 | 6 | 0 | 1 | 0 | 3 | 4 | 1 | 8 | 0 | 4 | 4 | 2 | 4 | 8 | 8         |                   |
| 3           | 0                                 | 6 | 4 | 7 | 2 | 2 | 1 | 7 | 6 | 4 | 4 | 5 | 9 | 0 | 8 | 4 | 1 | 8 | 9 | 7 | 7 | 6 | 6 | 0 | 0         |                   |

Pheochromocytoma Complex

Islets, Pancreatic  
 Adenoma  
 Carcinoma

+ +

Parathyroid Gland

+ + + + + + + + M + M + I + M + M I + + M + + + +

Pituitary Gland

+ +

Schwannoma Malignant, Metastatic, Trigeminal Ganglion

X

Pars Distalis, Adenoma

X

X

X

Pars Distalis, Adenoma, Multiple

Pars Distalis, Carcinoma

Thyroid Gland

+ + + + + + + + + + + + I + A + + + + + + + + + +

Carcinoma, Metastatic, Kidney

Bilateral, C-cell, Adenoma

Bilateral, C-cell, Adenoma, Multiple

C-cell, Adenoma

GENERAL BODY SYSTEM

Tissue NOS

+

+

Mediastinum, Paraganglioma

GENITAL SYSTEM

Clitoral Gland

+ + + + + M + + + M + + + + + + + + + + + + +

Ovary

+ +

Adenocarcinoma, Metastatic, Intestine Small, Duodenum

X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <p><b>HARLAN SPRAGUE DAWLEY RATS</b><br/><b>FEMALE</b><br/><b>1.5W/kg(GSM)chr</b></p> | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   | 1           | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|   | 2           | 3 | 6 | 6 | 8 | 9 | 9 | 9 | 3 | 4 | 4 | 7 | 7 | 8 | 9 | 0 | 2 | 2 | 3 | 5 | 5 | 5 | 8 | 9 | 9 | 9 | 9 |
|   | 3           | 2 | 4 | 4 | 0 | 3 | 3 | 3 | 1 | 5 | 5 | 6 | 8 | 4 | 7 | 2 | 2 | 6 | 1 | 0 | 4 | 7 | 2 | 0 | 6 | 6 | 6 |
| ANIMAL ID   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   | 8           | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 8 | 9 | 8 | 8 | 8 | 8 | 8 | 8 |
|   | 7           | 7 | 3 | 8 | 9 | 5 | 0 | 1 | 1 | 1 | 9 | 6 | 0 | 1 | 0 | 3 | 4 | 1 | 8 | 0 | 4 | 2 | 4 | 4 | 8 | 8 |   |
|   | 3           | 0 | 6 | 4 | 7 | 2 | 2 | 1 | 7 | 6 | 4 | 4 | 5 | 9 | 0 | 8 | 4 | 1 | 8 | 9 | 7 | 7 | 6 | 6 | 0 | 0 |   |

females  
(cont...)

Lymphangiosarcoma  
Sex Cord Stromal Tumor, Benign  
Periovarian Tissue, Sarcoma Stromal, Metastatic, Uterus

X

Uterus  
Adenocarcinoma  
Hemangioma  
Polyp Stromal  
Polyp Stromal, Multiple  
Sarcoma Stromal  
Cervix, Polyp Stromal  
Cervix, Sarcoma

+ + + + + + + + + + + + + A + + + + + + + + +  
X X X X X

Vagina  
Granular Cell Tumor Benign  
Sarcoma, Metastatic, Uterus

**HEMATOPOIETIC SYSTEM**

Bone Marrow

+ +

Lymph Node  
Bronchial, Adenocarcinoma, Metastatic, Intestine Small, Duodenum  
Lumbar, Basal Cell Carcinoma, Metastatic, Skin  
Mediastinal, Adenocarcinoma, Metastatic, Intestine Small, Duodenum

+ + X X X

Lymph Node, Mandibular

+ +

Lymph Node, Mesenteric

+ +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | females<br>(cont...) |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|
|                                   | 1 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |           |                      |
| <b>HARLAN SPRAGUE DAWLEY RATS</b> | 2 | 3 | 6 | 6 | 8 | 9 | 9 | 9 | 3 | 4 | 4 | 7 | 7 | 8 | 9 | 0 | 2 | 2 | 3 | 5 | 5 | 8 | 9 | 9 | 9 | 9 | 00008873  |                      |
| <b>FEMALE</b>                     | 3 | 2 | 4 | 4 | 0 | 3 | 3 | 3 | 1 | 5 | 5 | 6 | 8 | 4 | 7 | 2 | 2 | 6 | 1 | 0 | 4 | 7 | 2 | 0 | 6 | 6 | 00008873  |                      |
| <b>1.5W/kg(GSM)chr</b>            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00008873  |                      |

Adenocarcinoma, Metastatic, Intestine Small, Duodenum

X

Spleen  
Sarcoma Stromal, Metastatic, Uterus Capsule, Adenocarcinoma, Metastatic, Intestine Small, Duodenum

+ X

Thymus  
Thymoma Benign  
Thymoma Malignant

+ + + + + M + + + + + + + + + + + + + M

INTEGUMENTARY SYSTEM

Mammary Gland  
Adenocarcinoma  
Adenocarcinoma, Multiple  
Adenoma  
Fibroadenoma  
Fibroadenoma, Multiple

+ X X X X X X X X X X X X X X X X X X X

Skin  
Basal Cell Carcinoma  
Subcutaneous Tissue, Fibroma  
Subcutaneous Tissue, Fibrosarcoma

+ + + + + + + + + + + + + + + X + + + + + + + X

MUSCULOSKELETAL SYSTEM

Bone  
Skeletal Muscle  
Sarcoma Stromal, Metastatic, Uterus

+ X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <p><b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE<br/>1.5W/kg(GSM)chr</b></p> | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   |             | 1 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|   |             | 2 | 3 | 6 | 6 | 8 | 9 | 9 | 9 | 3 | 4 | 4 | 7 | 7 | 8 | 9 | 0 | 2 | 2 | 3 | 5 | 5 | 5 | 8 | 9 |
|   |             | 3 | 3 | 2 | 4 | 4 | 0 | 3 | 3 | 3 | 1 | 5 | 5 | 6 | 8 | 4 | 7 | 2 | 2 | 6 | 1 | 0 | 4 | 7 | 2 |
|   | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   |             | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 8 | 8 | 8 | 9 | 9 | 9 | 8 | 8 | 8 | 9 | 8 | 9 | 8 | 8 | 8 |
|   |             | 7 | 7 | 3 | 8 | 9 | 5 | 0 | 1 | 1 | 1 | 9 | 6 | 0 | 1 | 0 | 3 | 4 | 4 | 1 | 8 | 0 | 4 | 2 |   |
|   |             | 3 | 0 | 6 | 4 | 7 | 2 | 2 | 1 | 7 | 6 | 4 | 4 | 5 | 9 | 0 | 8 | 4 | 1 | 8 | 9 | 7 | 6 | 6 |   |

females  
(cont...)

Diaphragm, Adenocarcinoma, Metastatic,  
Intestine Small, Duodenum  
Diaphragm, Carcinoma, Metastatic, Uncertain  
Primary Site

X

**NERVOUS SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Pituitary Gland                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Schwannoma Malignant, Metastatic, Trigeminal<br>Ganglion |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Meninges, Carcinoma, Metastatic, Kidney                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Meninges, Granular Cell Tumor Benign                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nerve Trigeminal   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + |
| Schwannoma Malignant, Metastatic, Trigeminal<br>Ganglion |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Peripheral Nerve, Sciatic                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Tibial                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Cervical                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Lumbar                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Meninges, Carcinoma, Metastatic, Kidney                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Spinal Cord, Thoracic                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trigeminal Ganglion                                      | + | I | + | + | + | I | + | + | + | + | + | I | M | + | + | + | + | + | + | + | M | + | + | + |
| Schwannoma Malignant                                     |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**RESPIRATORY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS FEMALE |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ANIMAL ID                | females (cont...)        |                   |                   |
|-------------|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------------|--------------------------|-------------------|-------------------|
|             | 0                                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                          |                          | 0                 |                   |
| 1           | 3                                 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6                        | 000000000000000000000000 | females (cont...) |                   |
| 2           | 3                                 | 6 | 6 | 8 | 9 | 9 | 9 | 3 | 4 | 4 | 7 | 7 | 8 | 9 | 0 | 2 | 2 | 3 | 5 | 5 | 8 | 9 | 9 | 9 | 000000000000000000000000 | females (cont...)        |                   |                   |
| 3           | 2                                 | 4 | 4 | 0 | 3 | 3 | 3 | 1 | 5 | 5 | 6 | 8 | 4 | 7 | 2 | 2 | 6 | 1 | 0 | 4 | 7 | 2 | 0 | 6 | 000000000000000000000000 |                          |                   | females (cont...) |
|             | 0                                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 888888999888888888888888 |                          |                   |                   |
|             | 8                                 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 8 | 8 | 8 | 9 | 9 | 8 | 8 | 8 | 9 | 8 | 9 | 8 | 8 | 8 | 8 | 773895011196011960344189 |                          | females (cont...) |                   |
|             | 3                                 | 0 | 6 | 4 | 7 | 2 | 1 | 7 | 6 | 4 | 4 | 5 | 9 | 0 | 8 | 4 | 1 | 8 | 9 | 7 | 6 | 6 | 0 | 0 |                          | females (cont...)        |                   |                   |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Carcinoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Basal Cell Carcinoma, Metastatic, Skin        |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |
| Carcinoma, Metastatic, Uncertain Primary Site |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sarcoma Stromal, Metastatic, Uterus           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Nose  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye  | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | A | + | + | + | + | + | + |
| Retrobulbar, Schwannoma Malignant, Metastatic, Trigeminal Ganglion |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Harderian Gland  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

URINARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Intestine Small, Duodenum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Carcinoma, Metastatic, Uncertain Primary Site         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sarcoma Stromal, Metastatic, Uterus                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Bilateral, Renal Tubule, Carcinoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bilateral, Renal Tubule, Carcinoma, Multiple          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Renal Tubule, Adenoma                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Urinary Bladder                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + |
| Urothelium, Carcinoma                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE<br/>1.5W/kg(GSM)chr</b> | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |             | 1 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |             | 2 | 3 | 6 | 6 | 8 | 9 | 9 | 9 | 3 | 4 | 4 | 7 | 7 | 8 | 9 | 0 | 2 | 2 | 3 | 5 | 5 | 5 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|  | 3           | 2 | 4 | 4 | 0 | 3 | 3 | 3 | 1 | 5 | 5 | 6 | 8 | 4 | 7 | 2 | 2 | 6 | 1 | 0 | 4 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |             | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 8 | 8 | 8 | 9 | 9 | 9 | 8 | 8 | 8 | 9 | 8 | 8 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
|  |             | 7 | 7 | 3 | 8 | 9 | 5 | 0 | 1 | 1 | 1 | 9 | 6 | 0 | 1 | 0 | 3 | 4 | 1 | 8 | 0 | 4 | 2 | 4 | 2 | 4 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
|  |             | 3 | 0 | 6 | 4 | 7 | 2 | 2 | 1 | 7 | 6 | 4 | 4 | 5 | 9 | 0 | 8 | 4 | 1 | 8 | 9 | 7 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

females  
(cont...)

SYSTEMIC LESIONS

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Multiple Organ       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Histiocytic Sarcoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |  |
| Leukemia Mononuclear |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>1.5W/kg(GSM)chr</b> | DAY ON TEST | 0696 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | females<br>(cont...) |
|  | ANIMAL ID   | 0091 | 0098 | 0098 | 0099 | 0099 | 0098 | 0098 | 0098 | 0098 | 0098 | 0098 | 0098 | 0098 | 0098 | 0098 | 0098 | 0098 | 0098 | 0098 | 0098 | 0098 | 0098 | 0098 | 0098 |                      |
|  |             | 3891 | 8470 | 8910 | 9288 | 9288 | 8643 | 8643 | 8643 | 8643 | 8643 | 8643 | 8643 | 8643 | 8643 | 8643 | 8643 | 8643 | 8643 | 8643 | 8643 | 8643 | 8643 | 8643 | 8643 |                      |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum  | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum<br>Serosa, Sarcoma, Metastatic, Uterus                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum<br>Adenocarcinoma   | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum  | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum<br>Leiomyosarcoma<br>Serosa, Sarcoma Stromal, Metastatic, Uterus | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver<br>Adenocarcinoma, Metastatic, Intestine Small,<br>Duodenum                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Kidney   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma, Metastatic, Uncertain Primary Site   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocellular Adenoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocellular Adenoma, Multiple  |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |
| Hepatocellular Carcinoma  | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sarcoma Stromal, Metastatic, Uterus   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Serosa, Adenocarcinoma, Metastatic, Uterus  |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |
| Mesentery   |   |   |   | + |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

**Experiment Number:** 20105 - 59  
**Test Type:** CHRONIC  
**Route:** Whole Body Exposure  
**Species/Strain:** RATS/HSD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Cell Phone Radiation: GSM  
**CAS Number:** CELLPRADGSM

**Date Report Requested:** 01/02/2018  
**Time Report Requested:** 11:58:55  
**First Dose M/F:** 09/16/12 / 09/16/12  
**Lab:** IIT

| DAY ON TEST                                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                              |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE</b> | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                              |
| <b>1.5W/kg(GSM)chr</b>                       | 9 | 9 | 9 | 9 | 9 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |                              |
| <b>ANIMAL ID</b>                             | 6 | 9 | 9 | 9 | 9 | 1 | 3 | 6 | 8 | 2 | 1 | 2 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |                              |
|  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                              |
|  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                              |
|  | 9 | 8 | 8 | 9 | 9 | 8 | 8 | 8 | 8 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |                              |
|  | 1 | 4 | 7 | 0 | 2 | 8 | 6 | 4 | 3 | 0 | 6 | 5 | 1 | 5 | 6 | 6 | 9 | 1 | 2 | 2 | 5 | 5 | 5 | 7 | 7 |                              |
|  | 3 | 8 | 9 | 1 | 0 | 8 | 6 | 3 | 3 | 4 | 9 | 4 | 9 | 8 | 1 | 8 | 9 | 0 | 0 | 7 | 3 | 7 | 9 | 2 | 2 | <b>females<br/>(cont...)</b> |

Adenocarcinoma, Metastatic, Intestine Small, Duodenum  
 Sarcoma Stromal, Metastatic, Uterus

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pancreas  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Intestine Small, Duodenum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adenocarcinoma, Metastatic, Uterus                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma, Metastatic, Uncertain Primary Site         |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sarcoma Stromal, Metastatic, Uterus                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Salivary Glands      | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular   | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**CARDIOVASCULAR SYSTEM**

|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**ENDOCRINE SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Intestine Small, Duodenum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adenoma   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sarcoma Stromal, Metastatic, Uterus                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Adrenal Medulla                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pheochromocytoma Benign                               |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>1.5W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | females<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
|   | 0696        | 0699 | 0699 | 0699 | 0699 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 |                      |
| ANIMAL ID   | 0091        | 0098 | 0098 | 0099 | 0099 | 0098 | 0098 | 0098 | 0098 | 0099 | 0098 | 0098 | 0098 | 0098 | 0095 | 0091 | 0098 | 0098 | 0099 | 0098 | 0098 | 0095 | 0095 | 0097 | 0099                 |

Pheochromocytoma Complex

Islets, Pancreatic  
Adenoma  
Carcinoma

Parathyroid Gland

Pituitary Gland  
Schwannoma Malignant, Metastatic, Trigeminal  
Ganglion  
Pars Distalis, Adenoma  
Pars Distalis, Adenoma, Multiple  
Pars Distalis, Carcinoma

Thyroid Gland  
Carcinoma, Metastatic, Kidney  
Bilateral, C-cell, Adenoma  
Bilateral, C-cell, Adenoma, Multiple  
C-cell, Adenoma

GENERAL BODY SYSTEM

Tissue NOS  
Mediastinum, Paraganglioma

GENITAL SYSTEM

Clitoral Gland

Ovary  
Adenocarcinoma, Metastatic, Intestine Small,  
Duodenum

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically



Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

|  | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                              |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE<br/>1.5W/kg(GSM)chr</b> | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <b>females<br/>(cont...)</b> |
|  | 6           | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                              |
|  | 9           | 9 | 9 | 9 | 9 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |                              |
|  | 6           | 9 | 9 | 9 | 9 | 1 | 3 | 6 | 8 | 2 | 1 | 2 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                              |
|  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                              |
|  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                              |
|  | 9           | 8 | 8 | 9 | 9 | 8 | 8 | 8 | 8 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |                              |
|  | 1           | 4 | 7 | 0 | 2 | 8 | 6 | 4 | 3 | 0 | 6 | 5 | 1 | 5 | 6 | 6 | 9 | 1 | 2 | 2 | 5 | 5 | 7 | 7 |   |                              |
|  | 3           | 8 | 9 | 1 | 0 | 8 | 6 | 3 | 3 | 4 | 9 | 4 | 9 | 8 | 1 | 8 | 9 | 0 | 2 | 7 | 3 | 7 | 9 | 2 |   |                              |

Lymphangiosarcoma X

Sex Cord Stromal Tumor, Benign

Periovarian Tissue, Sarcoma Stromal, Metastatic, Uterus

Uterus +

Adenocarcinoma X

Hemangioma

Polyp Stromal X

Polyp Stromal, Multiple X

Sarcoma Stromal

Cervix, Polyp Stromal X

Cervix, Sarcoma

Vagina +

Granular Cell Tumor Benign

Sarcoma, Metastatic, Uterus

**HEMATOPOIETIC SYSTEM**

Bone Marrow +

Lymph Node + +

Bronchial, Adenocarcinoma, Metastatic, Intestine Small, Duodenum

Lumbar, Basal Cell Carcinoma, Metastatic, Skin

Mediastinal, Adenocarcinoma, Metastatic, Intestine Small, Duodenum

Lymph Node, Mandibular + + + + + + + + + M + + + + + + + + + +

Lymph Node, Mesenteric +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

|   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>1.5W/kg(GSM)chr | DAY ON TEST | 0696 | 0699 | 0699 | 0699 | 0699 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | ANIMAL ID | females<br>(cont...) |
|   | 0696        | 0699 | 0699 | 0699 | 0699 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 | 0691 |           |                      |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adenocarcinoma, Metastatic, Intestine Small, Duodenum   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Spleen  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Sarcoma Stromal, Metastatic, Uterus<br>Capsule, Adenocarcinoma, Metastatic, Intestine Small, Duodenum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thymus  | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymoma Benign  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thymoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>INTEGUMENTARY SYSTEM</b>       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mammary Gland                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adenocarcinoma, Multiple          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adenoma                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fibroadenoma                      | X | X | X |   |   |   |   |   |   | X | X |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Fibroadenoma, Multiple            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Skin                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basal Cell Carcinoma              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Fibroma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Fibrosarcoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

|                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>MUSCULOSKELETAL SYSTEM</b>       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bone                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Sarcoma Stromal, Metastatic, Uterus |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>1.5W/kg(GSM)chr | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   | ANIMAL ID   | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|   |             | 9 | 9 | 9 | 9 | 9 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|   | 6           | 9 | 9 | 9 | 9 | 9 | 1 | 3 | 6 | 8 | 2 | 1 | 2 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   | 9           | 8 | 8 | 9 | 9 | 8 | 8 | 8 | 8 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |   |
|   | 1           | 4 | 7 | 0 | 2 | 8 | 6 | 4 | 3 | 0 | 6 | 5 | 1 | 5 | 6 | 6 | 9 | 1 | 2 | 2 | 7 | 3 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |   |
|   | 3           | 8 | 9 | 1 | 0 | 8 | 6 | 3 | 3 | 4 | 9 | 4 | 9 | 8 | 1 | 8 | 9 | 0 | 0 | 7 | 3 | 7 | 7 | 9 | 1 | 2 | 2 | 7 | 3 | 7 | 9 | 1 | 2 | 2 | 7 | 2 | 2 |   |

females  
(cont...)

Diaphragm, Adenocarcinoma, Metastatic,  
Intestine Small, Duodenum

Diaphragm, Carcinoma, Metastatic, Uncertain  
Primary Site

X

NERVOUS SYSTEM

Brain  
Carcinoma, Metastatic, Pituitary Gland  
Schwannoma Malignant, Metastatic, Trigeminal  
Ganglion  
Meninges, Carcinoma, Metastatic, Kidney  
Meninges, Granular Cell Tumor Benign

+  
  
  
  
  
X

Nerve Trigeminal  
Schwannoma Malignant, Metastatic, Trigeminal  
Ganglion

+ + + + + + + + + + + + + + + I + + + + + + + + + +

Peripheral Nerve, Sciatic

+ +

Peripheral Nerve, Tibial

+ +

Spinal Cord, Cervical

+ +

Spinal Cord, Lumbar  
Meninges, Carcinoma, Metastatic, Kidney

+ X + + + +

Spinal Cord, Thoracic

+ +

Trigeminal Ganglion  
Schwannoma Malignant

+ + + + I + + + + + M + M + + I + + + + + + + + + +

RESPIRATORY SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>1.5W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | females<br>(cont...) |      |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|
|   | 0696        | 0699 | 0699 | 0699 | 0699 | 0711 | 0711 | 0711 | 0711 | 0711 | 0712 | 0713 | 0713 | 0713 | 0713 | 0713 | 0713 | 0713 | 0713 | 0713 | 0713 |                      | 0713 |
| ANIMAL ID   | 0091        | 0098 | 0098 | 0099 | 0099 | 0098 | 0098 | 0098 | 0098 | 0099 | 0098 | 0098 | 0098 | 0098 | 0098 | 0098 | 0098 | 0099 | 0098 | 0098 | 0098 | 0098                 | 0098 |
| Lung  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    | +    |
| Alveolar/Bronchiolar Carcinoma                          |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |      |
| Basal Cell Carcinoma, Metastatic, Skin                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |      |
| Carcinoma, Metastatic, Uncertain Primary Site           |             |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |      |
| Sarcoma Stromal, Metastatic, Uterus                     |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |      |
| Nose  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    | +    |
| Trachea   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    | +    |

**SPECIAL SENSES SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye   | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Retrolubar, Schwannoma Malignant, Metastatic, Trigeminal Ganglion |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Harderian Gland   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**URINARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Intestine Small, Duodenum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma, Metastatic, Uncertain Primary Site         |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sarcoma Stromal, Metastatic, Uterus                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bilateral, Renal Tubule, Carcinoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bilateral, Renal Tubule, Carcinoma, Multiple          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Renal Tubule, Adenoma                                 |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Urinary Bladder                                       | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Urothelium, Carcinoma                                 |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

|  |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |     |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>1.5W/kg(GSM)chr</b> | DAY ON TEST | 066600 | 066600 | 066600 | 066600 | 066600 | 066600 | 066600 | 066600 | 066600 | 066600 | 066600 | 066600 | 066600 | 066600 | 066600 | 066600 | 066600 | 066600 | 066600 | 066600 | 066600 | 066600 | 066600 |      |     |
|  | ANIMAL ID   | 0091   | 0091   | 0091   | 0091   | 0091   | 0091   | 0091   | 0091   | 0091   | 0091   | 0091   | 0091   | 0091   | 0091   | 0091   | 0091   | 0091   | 0091   | 0091   | 0091   | 0091   | 0091   | 0091   | 0091 |     |
|  |             | 063    | 063    | 063    | 063    | 063    | 063    | 063    | 063    | 063    | 063    | 063    | 063    | 063    | 063    | 063    | 063    | 063    | 063    | 063    | 063    | 063    | 063    | 063    | 063  | 063 |
|  |             | 888    | 888    | 888    | 888    | 888    | 888    | 888    | 888    | 888    | 888    | 888    | 888    | 888    | 888    | 888    | 888    | 888    | 888    | 888    | 888    | 888    | 888    | 888    | 888  | 888 |

females  
(cont...)

**SYSTEMIC LESIONS**

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Multiple Organ       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Histiocytic Sarcoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Leukemia Mononuclear |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymphoma Malignant   |   |   | X |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE</b> | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|  | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <b>1.5W/kg(GSM)chr</b>                       |             | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|  |             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|  |             | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
|  |             | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|  |             | 8 | 8 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|  |             | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
|  |             | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|  |             | 5 | 5 | 2 | 2 | 4 | 4 | 5 | 5 | 7 | 7 | 8 | 8 | 1 | 2 | 2 | 3 | 4 | 4 | 6 | 0 | 1 | 1 | 2 | 6 | 6 | 7 | 9 | 9 | 6 |

females (cont...)

ALIMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Large, Cecum                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Large, Colon                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Large, Rectum                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Serosa, Sarcoma, Metastatic, Uterus                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Intestine Small, Duodenum                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Adenocarcinoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Small, Ileum                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Small, Jejunum                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Leiomyosarcoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Serosa, Sarcoma Stromal, Metastatic, Uterus           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Liver   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Adenocarcinoma, Metastatic, Intestine Small, Duodenum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma, Metastatic, Kidney                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma, Metastatic, Uncertain Primary Site         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocellular Adenoma                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocellular Adenoma, Multiple                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocellular Carcinoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sarcoma Stromal, Metastatic, Uterus                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Serosa, Adenocarcinoma, Metastatic, Uterus            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesentery   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

| DAY ON TEST                              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                          |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS FEMALE</b> | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                          |
| <b>1.5W/kg(GSM)chr</b>                   | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |                          |
| <b>ANIMAL ID</b>                         | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <b>females (cont...)</b> |
|  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                          |
|  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                          |
|  | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |                          |
|  | 7 | 8 | 2 | 2 | 4 | 5 | 7 | 8 | 8 | 1 | 2 | 2 | 3 | 4 | 6 | 0 | 1 | 1 | 2 | 6 | 6 | 7 | 9 | 9 | 9 | 9 |                          |
|  | 6 | 5 | 2 | 5 | 2 | 1 | 4 | 8 | 7 | 4 | 1 | 4 | 1 | 0 | 5 | 0 | 8 | 6 | 7 | 3 | 5 | 5 | 3 | 6 | 6 |   |                          |

Adenocarcinoma, Metastatic, Intestine Small, Duodenum  
Sarcoma Stromal, Metastatic, Uterus

Pancreas  
Adenocarcinoma, Metastatic, Intestine Small, Duodenum  
Adenocarcinoma, Metastatic, Uterus  
Carcinoma, Metastatic, Uncertain Primary Site  
Sarcoma Stromal, Metastatic, Uterus

Salivary Glands

Stomach, Forestomach

Stomach, Glandular

**CARDIOVASCULAR SYSTEM**

Aorta

Heart

**ENDOCRINE SYSTEM**

Adrenal Cortex  
Adenocarcinoma, Metastatic, Intestine Small, Duodenum  
Adenoma  
Sarcoma Stromal, Metastatic, Uterus

Adrenal Medulla  
Pheochromocytoma Benign

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE<br/>1.5W/kg(GSM)chr</b> | DAY ON TEST | 0738  | 0738  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  | 0739  |  |
|  | ANIMAL ID   | 00876 | 00882 | 00822 | 00842 | 00851 | 00874 | 00887 | 00898 | 00911 | 00924 | 00937 | 00941 | 00954 | 00960 | 00965 | 00988 | 00996 | 00999 | 01008 | 01008 | 01008 | 01008 | 01008 | 01008 | 01008 | 01008 | 01008 | 01008 |  |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |

females (cont...)

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pheochromocytoma Complex                              | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Islets, Pancreatic                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Parathyroid Gland                                     | + | + | + | + | + | + | M | + | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Pituitary Gland                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pars Distalis, Adenoma                                |   | X |   |   |   |   |   |   | X |   | X | X |   |   |   |   | X |   |   |   | X |   | X | X | X |   |   |   |
| Pars Distalis, Adenoma, Multiple                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |
| Pars Distalis, Carcinoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thyroid Gland   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Carcinoma, Metastatic, Kidney                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bilateral, C-cell, Adenoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bilateral, C-cell, Adenoma, Multiple                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| C-cell, Adenoma                                       |   |   |   |   | X |   | X | X |   |   |   |   | X |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |

**GENERAL BODY SYSTEM**

|                            |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |
|----------------------------|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS                 |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |
| Mediastinum, Paraganglioma |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  |  |  |

**GENITAL SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | M | + | + |
| Ovary   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Intestine Small, Duodenum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



Experiment Number: 20105 - 59  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: RATS/HSD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

|   |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                       |
|---|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---------------------------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>         FEMALE<br/>         1.5W/kg(GSM)chr</b>  | DAY ON TEST |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>females<br/>         (cont...)</b> |
|   | ANIMAL ID   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                       |
| 0<br>7 7<br>3 3 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4<br>8 8 9 9 9 9 9 9 9 9 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                       |
| 0<br>0 0<br>8 8 8 8 8 8 8 8 8 8 8 9 8 8 8 8 8 8 9 9 8 8 8 8 8 8<br>7 8 2 2 4 5 7 7 8 1 2 2 3 4 6 0 1 1 2 6 6 7 9 9 9 9<br>6 5 2 5 2 1 4 8 7 4 1 4 1 0 5 0 8 6 7 9 3 5 5 3 6 6 |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                       |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymphangiosarcoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sex Cord Stromal Tumor, Benign                             |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Periovarian Tissue, Sarcoma Stromal,<br>Metastatic, Uterus |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Uterus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hemangioma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Polyp Stromal  |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | X |   |   |   |   | X |   | X |
| Polyp Stromal, Multiple                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Sarcoma Stromal  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Cervix, Polyp Stromal                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Cervix, Sarcoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Vagina   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Granular Cell Tumor Benign                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sarcoma, Metastatic, Uterus                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |

**HEMATOPOIETIC SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bronchial, Adenocarcinoma, Metastatic,<br>Intestine Small, Duodenum   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lumbar, Basal Cell Carcinoma, Metastatic,<br>Skin                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mediastinal, Adenocarcinoma, Metastatic,<br>Intestine Small, Duodenum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mandibular  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>1.5W/kg(GSM)chr | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | females<br>(cont...) |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------------|
|   | 0<br>7<br>3<br>8 | 0<br>7<br>3<br>8 | 0<br>7<br>3<br>9 | 0<br>7<br>3<br>9 | 0<br>7<br>3<br>9 | 0<br>7<br>3<br>9 | 0<br>7<br>3<br>9 | 0<br>7<br>3<br>9 | 0<br>7<br>3<br>9 | 0<br>7<br>3<br>9 | 0<br>7<br>3<br>9 | 0<br>7<br>3<br>9 | 0<br>7<br>3<br>9 | 0<br>7<br>3<br>9 | 0<br>7<br>3<br>9 | 0<br>7<br>3<br>9 | 0<br>7<br>3<br>9 | 0<br>7<br>3<br>9 | 0<br>7<br>3<br>9 | 0<br>7<br>3<br>9 | 0<br>7<br>3<br>9 | 0<br>7<br>3<br>9 | 0<br>7<br>3<br>9 | 0<br>7<br>3<br>9 |                  |                      |
|   | ANIMAL ID        |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                      |
|   | 0<br>8<br>7<br>6 | 0<br>8<br>8<br>5 | 0<br>8<br>2<br>2 | 0<br>8<br>2<br>5 | 0<br>8<br>4<br>2 | 0<br>8<br>5<br>1 | 0<br>8<br>7<br>4 | 0<br>8<br>7<br>8 | 0<br>8<br>8<br>7 | 0<br>8<br>8<br>4 | 0<br>8<br>9<br>1 | 0<br>8<br>8<br>2 | 0<br>8<br>8<br>3 | 0<br>8<br>8<br>4 | 0<br>8<br>8<br>5 | 0<br>8<br>9<br>6 | 0<br>8<br>9<br>7 | 0<br>8<br>9<br>8 | 0<br>8<br>9<br>9 | 0<br>8<br>0<br>0 | 0<br>8<br>0<br>1 | 0<br>8<br>0<br>2 | 0<br>8<br>0<br>3 | 0<br>8<br>0<br>4 | 0<br>8<br>0<br>5 |                      |

Adenocarcinoma, Metastatic, Intestine Small, Duodenum

Spleen  
Sarcoma Stromal, Metastatic, Uterus  
Capsule, Adenocarcinoma, Metastatic, Intestine Small, Duodenum

Thymus  
Thymoma Benign  
Thymoma Malignant

INTEGUMENTARY SYSTEM

Mammary Gland  
Adenocarcinoma  
Adenocarcinoma, Multiple  
Adenoma  
Fibroadenoma  
Fibroadenoma, Multiple

Skin  
Basal Cell Carcinoma  
Subcutaneous Tissue, Fibroma  
Subcutaneous Tissue, Fibrosarcoma

MUSCULOSKELETAL SYSTEM

Bone  
Skeletal Muscle  
Sarcoma Stromal, Metastatic, Uterus

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

| DAY ON TEST                          |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE |  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 1.5W/kg(GSM)chr                      |  | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |   |
| ANIMAL ID                            |  | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |   |
|                                      |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|                                      |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|                                      |  | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |   |
|                                      |  | 7 | 8 | 2 | 2 | 4 | 5 | 7 | 7 | 8 | 1 | 2 | 3 | 4 | 4 | 6 | 0 | 1 | 1 | 2 | 6 | 6 | 7 | 9 | 9 |   |
|                                      |  | 6 | 5 | 2 | 5 | 2 | 1 | 4 | 8 | 7 | 4 | 1 | 2 | 4 | 5 | 0 | 8 | 6 | 7 | 9 | 3 | 5 | 5 | 3 | 6 |   |

females (cont...)

Diaphragm, Adenocarcinoma, Metastatic, Intestine Small, Duodenum  
Diaphragm, Carcinoma, Metastatic, Uncertain Primary Site

NERVOUS SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Pituitary Gland                |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Meninges, Carcinoma, Metastatic, Kidney               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Meninges, Granular Cell Tumor Benign                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nerve Trigeminal                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Peripheral Nerve, Sciatic                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Tibial                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Cervical                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Lumbar                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Meninges, Carcinoma, Metastatic, Kidney               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Spinal Cord, Thoracic                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trigeminal Ganglion                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant                                  |   |   |   |   |   |   |   |   |   |   |   |   |   | I |   |   |   |   |   |   |   |   |   |   |   |

RESPIRATORY SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

| DAY ON TEST  | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   | females<br>(cont...) |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|----------------------|
|  | 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |                      |
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>1.5W/kg(GSM)chr            | 3 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   | females<br>(cont...) |
|  | 8 8 9 9 9 9 9 9 9 9 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |                      |
| ANIMAL ID  | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   | females<br>(cont...) |
|  | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |                      |
|  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 8 8 8 8 8 8 8 8 8 8 9 8 8 8 8 8 8 8 9 8 8 8 8 8 8 |                      |
|  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 7 8 2 2 4 5 7 7 8 1 2 2 3 4 4 6 0 1 1 2 6 6 7 9 9 |                      |
|  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 6 5 2 5 2 1 4 8 7 4 1 4 1 0 5 0 8 6 7 3 5 5 3 6   |                      |
| Lung   | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |                      |
| Alveolar/Bronchiolar Carcinoma                                     |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   | X                    |
| Basal Cell Carcinoma, Metastatic, Skin                             |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |                      |
| Carcinoma, Metastatic, Uncertain Primary Site                      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |                      |
| Sarcoma Stromal, Metastatic, Uterus                                |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |                      |
| Nose   | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |                      |
| Trachea  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |                      |
| <b>SPECIAL SENSES SYSTEM</b>                                       |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |                      |
| Eye  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |                      |
| Retrobulbar, Schwannoma Malignant, Metastatic, Trigeminal Ganglion |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |                      |
| Harderian Gland  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |                      |
| <b>URINARY SYSTEM</b>  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |                      |
| Kidney   | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |                      |
| Adenocarcinoma, Metastatic, Intestine Small, Duodenum              |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |                      |
| Carcinoma, Metastatic, Uncertain Primary Site                      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |                      |
| Sarcoma Stromal, Metastatic, Uterus                                |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |                      |
| Bilateral, Renal Tubule, Carcinoma                                 |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |                      |
| Bilateral, Renal Tubule, Carcinoma, Multiple                       |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |                      |
| Renal Tubule, Adenoma  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |                      |
| Urinary Bladder  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |                      |
| Urothelium, Carcinoma  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |                      |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                                    |      |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------------------------------------|------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>1.5W/kg(GSM)chr</b> | DAY ON TEST | 0738 | 0738 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | <b>females</b><br><b>(cont...)</b> |      |
|  | ANIMAL ID   | 0876 | 0885 | 0882 | 0885 | 0884 | 0881 | 0884 | 0887 | 0888 | 0887 | 0881 | 0882 | 0883 | 0884 | 0880 | 0885 | 0889 | 0889 | 0888 | 0888 | 0886 | 0886 | 0887 | 0885 | 0885 | 0883 |                                    | 0886 |
|  |             | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |                                    | 0000 |

SYSTEMIC LESIONS

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Multiple Organ       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Histiocytic Sarcoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Leukemia Mononuclear |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                       |   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS</b> | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|                                   | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| <b>FEMALE</b>                     | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 |
| <b>1.5W/kg(GSM)chr</b>            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID                         | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 8 | 8 | 8 | 8 | 8 | 8 |
|                                   | 0 | 1 | 2 | 2 | 3 | 3 | 5 | 8 | 9 | 9 | 1 | 3 | 3 | 6 | 9 | 9 | 9 |
|                                   | 9 | 8 | 3 | 8 | 2 | 7 | 6 | 1 | 1 | 2 | 2 | 0 | 3 | 9 | 2 | 0 | 0 |
| <b>* TOTALS</b>                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Intestine Large, Cecum                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 83 |
| Intestine Large, Colon                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| Intestine Large, Rectum                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Serosa, Sarcoma, Metastatic, Uterus                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Small, Duodenum                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 85 |
| Adenocarcinoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Small, Ileum                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 82 |
| Intestine Small, Jejunum                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 82 |
| Leiomyosarcoma  |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | 1  |
| Serosa, Sarcoma Stromal, Metastatic, Uterus           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Liver   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenocarcinoma, Metastatic, Intestine Small, Duodenum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Carcinoma, Metastatic, Kidney                         |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | 1  |
| Carcinoma, Metastatic, Uncertain Primary Site         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Hepatocellular Adenoma                                |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Hepatocellular Adenoma, Multiple                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Hepatocellular Carcinoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Sarcoma Stromal, Metastatic, Uterus                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Serosa, Adenocarcinoma, Metastatic, Uterus            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Mesentery   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 5  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| <b>HARLAN SPRAGUE DAWLEY RATS</b> | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| <b>FEMALE</b>                     | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 |
| <b>1.5W/kg(GSM)chr</b>            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ANIMAL ID                         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                   | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 8 | 8 | 8 | 8 | 8 |
|                                   | 0 | 1 | 2 | 2 | 3 | 3 | 5 | 8 | 9 | 9 | 1 | 3 | 3 | 6 | 9 | 9 |
|                                   | 9 | 8 | 3 | 8 | 2 | 7 | 6 | 1 | 1 | 2 | 2 | 0 | 9 | 2 | 0 | 0 |
| <b>* TOTALS</b>                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Adenocarcinoma, Metastatic, Intestine Small, Duodenum 1

Sarcoma Stromal, Metastatic, Uterus 1

Pancreas 90

Adenocarcinoma, Metastatic, Intestine Small, Duodenum 1

Adenocarcinoma, Metastatic, Uterus 1

Carcinoma, Metastatic, Uncertain Primary Site 1

Sarcoma Stromal, Metastatic, Uterus 1

Salivary Glands 89

Stomach, Forestomach 90

Stomach, Glandular 89

**CARDIOVASCULAR SYSTEM**

Aorta 90

Heart 90

**ENDOCRINE SYSTEM**

Adrenal Cortex 90

Adenocarcinoma, Metastatic, Intestine Small, Duodenum 1

Adenoma 5

Sarcoma Stromal, Metastatic, Uterus 1

Adrenal Medulla 90

Pheochromocytoma Benign 3

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID |  |                 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--|-----------------|
|   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |           |  |                 |
| <b>HARLAN SPRAGUE DAWLEY RATS</b>                     | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |           |  |                 |
| <b>FEMALE</b>   | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |           |  |                 |
| <b>1.5W/kg(GSM)chr</b>                                | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |  |                 |
|   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |  |                 |
|   | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 8 | 8 | 8 | 8 | 8 | 8 |           |  |                 |
|   | 0 | 1 | 2 | 2 | 3 | 3 | 5 | 8 | 9 | 9 | 1 | 3 | 3 | 6 | 9 | 9 | 9 |           |  |                 |
|   | 9 | 8 | 3 | 8 | 2 | 7 | 6 | 1 | 1 | 2 | 2 | 0 | 9 | 2 | 0 | 0 | 0 |           |  |                 |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>* TOTALS</b> |
| Pheochromocytoma Complex                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>1</b>        |
| Islets, Pancreatic                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |  | <b>89</b>       |
| Adenoma   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |           |  | <b>4</b>        |
| Carcinoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>1</b>        |
| Parathyroid Gland                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |  | <b>79</b>       |
| Pituitary Gland                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |  | <b>90</b>       |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>1</b>        |
| Pars Distalis, Adenoma                                |   |   |   |   |   |   |   | X |   | X | X |   | X |   |   |   |   |           |  | <b>30</b>       |
| Pars Distalis, Adenoma, Multiple                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>3</b>        |
| Pars Distalis, Carcinoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>1</b>        |
| Thyroid Gland   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |  | <b>88</b>       |
| Carcinoma, Metastatic, Kidney                         |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |           |  | <b>2</b>        |
| Bilateral, C-cell, Adenoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>1</b>        |
| Bilateral, C-cell, Adenoma, Multiple                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>1</b>        |
| C-cell, Adenoma                                       |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>9</b>        |
| <b>GENERAL BODY SYSTEM</b>                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  |                 |
| Tissue NOS  |   |   | + |   |   |   |   |   |   |   | + |   |   |   |   |   |   |           |  | <b>10</b>       |
| Mediastinum, Paraganglioma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>1</b>        |
| <b>GENITAL SYSTEM</b>                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  |                 |
| Clitoral Gland  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M |           |  | <b>85</b>       |
| Ovary   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |  | <b>90</b>       |
| Adenocarcinoma, Metastatic, Intestine Small, Duodenum |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>1</b>        |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID       |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|--|
|   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                 |  |
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>1.5W/kg(GSM)chr | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |                 |  |
|   | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 |                 |  |
|   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |  |
|   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |  |
|   | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 8 | 8 | 8 | 8 | 8 |                 |  |
|   | 0 | 1 | 2 | 2 | 3 | 3 | 5 | 8 | 9 | 1 | 3 | 3 | 6 | 9 |   |   |                 |  |
|   | 9 | 8 | 3 | 8 | 2 | 7 | 6 | 1 | 1 | 2 | 2 | 0 | 9 | 2 | 0 | 0 |                 |  |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |  |

Lymphangiosarcoma 1  
 Sex Cord Stromal Tumor, Benign 1  
 Periovarian Tissue, Sarcoma Stromal, Metastatic, Uterus 1

Uterus 89  
 Adenocarcinoma 1  
 Hemangioma 1  
 Polyp Stromal 11  
 Polyp Stromal, Multiple 6  
 Sarcoma Stromal 1  
 Cervix, Polyp Stromal 1  
 Cervix, Sarcoma 1

Vagina 3  
 Granular Cell Tumor Benign 1  
 Sarcoma, Metastatic, Uterus 1

**HEMATOPOIETIC SYSTEM**

Bone Marrow 90

Lymph Node 14  
 Bronchial, Adenocarcinoma, Metastatic, Intestine Small, Duodenum 1  
 Lumbar, Basal Cell Carcinoma, Metastatic, Skin 1  
 Mediastinal, Adenocarcinoma, Metastatic, Intestine Small, Duodenum 1

Lymph Node, Mandibular 89

Lymph Node, Mesenteric 90

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

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Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| <b>HARLAN SPRAGUE DAWLEY RATS FEMALE</b> | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| <b>1.5W/kg(GSM)chr</b>                   | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 |
| ANIMAL ID                                | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 8 | 8 | 8 | 8 | 8 |
|  | 0 | 1 | 2 | 2 | 3 | 3 | 5 | 8 | 9 | 9 | 1 | 3 | 3 | 6 | 9 | 9 |
|  | 9 | 8 | 3 | 8 | 2 | 7 | 6 | 1 | 1 | 2 | 2 | 0 | 3 | 9 | 2 | 0 |
| <b>* TOTALS</b>                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Adenocarcinoma, Metastatic, Intestine Small, Duodenum

1

Spleen

+ + + + + + + + + + + + + + +

90

Sarcoma Stromal, Metastatic, Uterus Capsule, Adenocarcinoma, Metastatic, Intestine Small, Duodenum

1

1

Thymus

+ + + + + + + + + + + + + + +

86

Thymoma Benign

X

1

Thymoma Malignant

1

**INTEGUMENTARY SYSTEM**

Mammary Gland

+ + + + + + + + + + + + + + +

89

Adenocarcinoma

X

5

Adenocarcinoma, Multiple

1

Adenoma

X

5

Fibroadenoma

X

X

X

X

X

X

X

X

X

43

Fibroadenoma, Multiple

X

X

X

X

25

Skin

+ + + + + + + + + + + + + + +

90

Basal Cell Carcinoma

1

Subcutaneous Tissue, Fibroma

X

3

Subcutaneous Tissue, Fibrosarcoma

1

**MUSCULOSKELETAL SYSTEM**

Bone

+ + + + + + + + + + + + + + +

90

Skeletal Muscle

+ + + + + + + + + + + + + + +

90

Sarcoma Stromal, Metastatic, Uterus

1

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>1.5W/kg(GSM)chr | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
|   | ANIMAL ID   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                 |
|   |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |                 |
|   |             | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 |                 |
|   |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
|   |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
|   |             | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 8 | 8 | 8 | 8 |                 |
|   |             | 0 | 1 | 2 | 2 | 3 | 3 | 5 | 8 | 9 | 1 | 3 | 3 | 6 | 9 |                 |
|   |             | 9 | 8 | 3 | 8 | 2 | 7 | 6 | 1 | 1 | 2 | 2 | 0 | 9 | 2 |                 |
|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |

Diaphragm, Adenocarcinoma, Metastatic, Intestine Small, Duodenum **1**

Diaphragm, Carcinoma, Metastatic, Uncertain Primary Site **1**

NERVOUS SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Brain   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Carcinoma, Metastatic, Pituitary Gland                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Meninges, Carcinoma, Metastatic, Kidney               |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | <b>2</b>  |
| Meninges, Granular Cell Tumor Benign                  |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Nerve Trigeminal                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>88</b> |
| Schwannoma Malignant, Metastatic, Trigeminal Ganglion |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Peripheral Nerve, Sciatic                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Peripheral Nerve, Tibial                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Spinal Cord, Cervical                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Spinal Cord, Lumbar                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Meninges, Carcinoma, Metastatic, Kidney               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Spinal Cord, Thoracic                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Trigeminal Ganglion                                   | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | <b>79</b> |
| Schwannoma Malignant                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

RESPIRATORY SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>1.5W/kg(GSM)chr            | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
|  | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>5      | 0<br>7<br>4<br>5      | 0<br>7<br>4<br>5      |          |
| ANIMAL ID  | 0<br>0<br>9<br>0<br>9 | 0<br>0<br>8<br>1<br>8 | 0<br>0<br>8<br>2<br>3 | 0<br>0<br>8<br>3<br>8 | 0<br>0<br>8<br>3<br>2 | 0<br>0<br>8<br>3<br>7 | 0<br>0<br>8<br>5<br>6 | 0<br>0<br>8<br>8<br>1 | 0<br>0<br>8<br>9<br>1 | 0<br>0<br>8<br>9<br>2 | 0<br>0<br>9<br>1<br>2 | 0<br>0<br>8<br>9<br>2 | 0<br>0<br>8<br>3<br>9 | 0<br>0<br>8<br>3<br>9 | 0<br>0<br>8<br>6<br>2 |          |
| Lung   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Alveolar/Bronchiolar Carcinoma                                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Basal Cell Carcinoma, Metastatic, Skin                             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Carcinoma, Metastatic, Uncertain Primary Site                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       | 2                     |          |
| Sarcoma Stromal, Metastatic, Uterus                                |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Nose   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Trachea  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| <b>SPECIAL SENSES SYSTEM</b>                                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Eye  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 85                    |          |
| Retrobulbar, Schwannoma Malignant, Metastatic, Trigeminal Ganglion |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Harderian Gland  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| <b>URINARY SYSTEM</b>  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Kidney   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Adenocarcinoma, Metastatic, Intestine Small, Duodenum              |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Carcinoma, Metastatic, Uncertain Primary Site                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Sarcoma Stromal, Metastatic, Uterus                                |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Bilateral, Renal Tubule, Carcinoma                                 |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       | 1                     |          |
| Bilateral, Renal Tubule, Carcinoma, Multiple                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Renal Tubule, Adenoma  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Urinary Bladder  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 88                    |          |
| Urothelium, Carcinoma  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>1.5W/kg(GSM)chr | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
|   | ANIMAL ID   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                 |
|   |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |                 |
|   |             | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 |   |                 |
|   |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
|   |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
|   |             | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 8 | 8 | 8 | 8 |                 |
|   |             | 0 | 1 | 2 | 2 | 3 | 3 | 5 | 8 | 9 | 1 | 3 | 3 | 6 | 9 |                 |
|   |             | 9 | 8 | 3 | 8 | 2 | 7 | 6 | 1 | 1 | 2 | 2 | 0 | 9 | 2 |                 |
|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |

SYSTEMIC LESIONS

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Multiple Organ       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Histiocytic Sarcoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Leukemia Mononuclear | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymphoma Malignant   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>3.0W/kg(GSM)chr | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|   | ANIMAL ID   | 1 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|   |             | 4 | 8 | 8 | 8 | 3 | 5 | 5 | 6 | 6 | 8 | 8 | 8 | 9 | 9 | 4 | 4 | 7 | 7 | 7 | 7 | 9 | 0 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|   | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|   | 1           | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   | 2           | 9 | 9 | 9 | 3 | 0 | 1 | 6 | 9 | 2 | 2 | 0 | 0 | 1 | 6 | 1 | 7 | 8 | 3 | 6 | 7 | 1 | 7 | 1 | 7 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |   |
|   | 2           | 6 | 7 | 9 | 4 | 0 | 9 | 4 | 8 | 8 | 2 | 6 | 2 | 0 | 5 | 0 | 9 | 6 | 7 | 3 | 0 | 1 | 9 | 4 | 1 | 7 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

females (cont...)

ALIMENTARY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Large, Cecum<br>Serosa, Adenocarcinoma, Metastatic,<br>Pancreas                    | A | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Large, Colon   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Large, Rectum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Small, Duodenum  | A | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Small, Ileum   | A | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Small, Jejunum   | A | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + |   |
| Liver<br>Adenocarcinoma, Metastatic, Pancreas<br>Hepatocellular Adenoma                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Mesentery<br>Adenocarcinoma, Metastatic, Pancreas<br>Schwannoma Malignant, Metastatic, Ovary |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |
| Pancreas<br>Schwannoma Malignant, Metastatic, Ovary<br>Acinus, Adenocarcinoma                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |
| Salivary Glands<br>Myoepithelioma  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

|                                   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                              |   |
|-----------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------|---|
| DAY ON TEST                       |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <b>females<br/>(cont...)</b> |   |
| HARLAN SPRAGUE DAWLEY RATS FEMALE |  | 1 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |                              | 6 |
| 3.0W/kg(GSM)chr                   |  | 4 | 8 | 8 | 8 | 3 | 5 | 5 | 6 | 6 | 8 | 8 | 8 | 9 | 9 | 4 | 4 | 7 | 7 | 7 | 9 | 0 | 1 | 2 | 2 |                              | 3 |
| ANIMAL ID                         |  | 2 | 3 | 3 | 3 | 9 | 0 | 0 | 4 | 4 | 2 | 9 | 9 | 2 | 3 | 5 | 5 | 8 | 8 | 9 | 3 | 6 | 9 | 1 | 1 |                              | 4 |
|                                   |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                              | 0 |
|                                   |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |                              | 1 |
|                                   |  | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |                              | 0 |
|                                   |  | 2 | 9 | 9 | 9 | 3 | 0 | 1 | 6 | 9 | 2 | 2 | 0 | 0 | 1 | 6 | 1 | 7 | 8 | 3 | 6 | 7 | 1 | 7 | 5 |                              | 4 |
|                                   |  | 2 | 6 | 7 | 9 | 4 | 0 | 9 | 4 | 8 | 8 | 6 | 2 | 5 | 0 | 9 | 6 | 7 | 3 | 0 | 1 | 9 | 4 | 1 | 1 |                              | 3 |

Parotid Gland, Adenoma

Stomach, Forestomach  
Squamous Cell Papilloma

Stomach, Glandular  
Serosa, Adenocarcinoma, Metastatic,  
Pancreas

Tooth

**CARDIOVASCULAR SYSTEM**

Aorta

Heart  
Endocardium, Schwannoma Malignant  
Epicardium, Paraganglioma  
Myocardium, Schwannoma Malignant

**ENDOCRINE SYSTEM**

Adrenal Cortex  
Adenocarcinoma, Metastatic, Pancreas  
Adenoma

Adrenal Medulla  
Adenocarcinoma, Metastatic, Pancreas  
Pheochromocytoma Benign  
Pheochromocytoma Complex

Islets, Pancreatic  
Adenoma

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: RATS/HSD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018  
 Time Report Requested: 11:58:55  
 First Dose M/F: 09/16/12 / 09/16/12  
 Lab: IIT

|  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>3.0W/kg(GSM)chr</b> | DAY ON TEST | 1 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 |   |
|  |             | 4 | 8 | 8 | 8 | 3 | 5 | 5 | 6 | 6 | 8 | 8 | 8 | 9 | 9 | 4 | 4 | 7 | 7 | 7 | 9 | 0 | 1 | 2 | 2 | 3 |
|  |             | 2 | 3 | 3 | 3 | 9 | 0 | 0 | 4 | 4 | 2 | 9 | 9 | 2 | 3 | 5 | 5 | 8 | 8 | 9 | 3 | 6 | 9 | 1 | 8 | 4 |
|  | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |
|  | 1           | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |   |
|  | 2           | 9 | 9 | 9 | 3 | 0 | 1 | 6 | 9 | 2 | 2 | 0 | 0 | 1 | 6 | 1 | 7 | 8 | 3 | 6 | 7 | 1 | 7 | 5 | 4 |   |
|  | 2           | 6 | 7 | 9 | 4 | 0 | 9 | 4 | 8 | 8 | 6 | 2 | 5 | 0 | 9 | 6 | 7 | 3 | 0 | 1 | 9 | 4 | 1 | 1 | 3 |   |

females  
(cont...)

Carcinoma

Parathyroid Gland

+ + + + + M + + + + + + + + M + + + + M + + + +

Pituitary Gland

+ +

Pars Distalis, Adenoma

X X X X

Pars Distalis, Adenoma, Multiple

Thyroid Gland

+ +

C-cell, Adenoma

C-cell, Carcinoma

**GENERAL BODY SYSTEM**

Tissue NOS

+

Chemodectoma Benign

Fat, Adenocarcinoma, Metastatic, Uterus

**GENITAL SYSTEM**

Clitoral Gland

+ + + + + + + + + M + + M + + M + + + + + + + +

Ovary

+ +

Adenocarcinoma, Metastatic, Pancreas

Cystadenoma

Granulosa Cell Tumor Malignant

X

Schwannoma Malignant

Sex Cord Stromal Tumor, Benign

Uterus

+ +

Adenocarcinoma

Adenocarcinoma, Metastatic, Pancreas

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

|                                   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                              |   |   |   |
|-----------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------|---|---|---|
|                                   |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <b>females<br/>(cont...)</b> |   |   |   |
| DAY ON TEST                       |  | 1 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 |                              | 6 | 6 |   |
| HARLAN SPRAGUE DAWLEY RATS FEMALE |  | 4 | 8 | 8 | 8 | 3 | 5 | 5 | 6 | 6 | 8 | 8 | 8 | 9 | 9 | 4 | 4 | 7 | 7 | 9 | 9 | 0 | 1 |                              | 2 | 2 | 3 |
| 3.0W/kg(GSM)chr                   |  | 2 | 3 | 3 | 3 | 9 | 0 | 0 | 4 | 4 | 2 | 9 | 9 | 2 | 3 | 5 | 5 | 8 | 8 | 9 | 3 | 6 | 9 |                              | 1 | 8 | 3 |
|                                   |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                              | 0 | 0 | 0 |
| ANIMAL ID                         |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |                              | 1 | 1 | 1 |
|                                   |  | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 |                              | 0 | 0 | 0 |
|                                   |  | 2 | 9 | 9 | 9 | 3 | 0 | 1 | 6 | 9 | 2 | 2 | 0 | 1 | 6 | 1 | 7 | 8 | 3 | 6 | 7 | 1 | 7 |                              | 5 | 4 | 4 |
|                                   |  | 2 | 6 | 7 | 9 | 4 | 0 | 9 | 4 | 8 | 8 | 6 | 2 | 5 | 0 | 9 | 6 | 7 | 3 | 0 | 1 | 9 | 4 |                              | 1 | 3 | 3 |

Leiomyosarcoma  
 Polyp Stromal  
 Polyp Stromal, Multiple  
 Sarcoma Stromal  
 Schwannoma Malignant  
 Squamous Cell Carcinoma

X

Vagina

+

**HEMATOPOIETIC SYSTEM**

Bone Marrow

+ +

Lymph Node  
 Mediastinal, Adenocarcinoma, Metastatic,  
 Pancreas

+ + +

Lymph Node, Mandibular

+ +

Lymph Node, Mesenteric  
 Hemangiosarcoma

+ +

Spleen

+ +

Thymus  
 Schwannoma Malignant

+ +

**INTEGUMENTARY SYSTEM**

Mammary Gland  
 Adenocarcinoma  
 Adenoma  
 Fibroadenoma

+  
 X X X X X X X X X X X X X X X X X X  
 X X X X X X X X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS FEMALE |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ANIMAL ID | females (cont...) |
|-------------|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-------------------|
|             | 0                                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                   |
| 1           | 3                                 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 0         |                   |
| 4           | 8                                 | 8 | 8 | 3 | 5 | 5 | 6 | 6 | 8 | 8 | 8 | 9 | 9 | 4 | 4 | 7 | 7 | 9 | 9 | 0 | 1 | 2 | 2 | 3 | 1         |                   |
| 2           | 3                                 | 3 | 3 | 9 | 0 | 0 | 4 | 4 | 2 | 9 | 9 | 2 | 3 | 5 | 5 | 8 | 8 | 9 | 3 | 6 | 9 | 1 | 1 | 4 | 0         |                   |
| 0           | 0                                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         |                   |
| 1           | 1                                 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1         |                   |
| 1           | 0                                 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0         |                   |
| 2           | 9                                 | 9 | 9 | 3 | 0 | 1 | 6 | 9 | 2 | 2 | 0 | 0 | 1 | 6 | 1 | 7 | 8 | 3 | 6 | 7 | 1 | 7 | 5 | 4 | 0         |                   |
| 2           | 6                                 | 7 | 9 | 4 | 0 | 9 | 4 | 8 | 8 | 6 | 2 | 5 | 0 | 9 | 6 | 7 | 3 | 0 | 1 | 9 | 4 | 1 | 1 | 3 | 0         |                   |

Fibroadenoma, Multiple

X

X

X

X

X

Skin

+ +

Pilomatrixoma

Squamous Cell Carcinoma

Squamous Cell Papilloma

Subcutaneous Tissue, Fibroma

Subcutaneous Tissue, Lipoma

MUSCULOSKELETAL SYSTEM

Bone

+ +

Skeletal Muscle

+ +

Diaphragm, Adenocarcinoma, Metastatic, Pancreas

NERVOUS SYSTEM

Brain

+ +

Meninges, Granular Cell Tumor Benign

Nerve Trigeminal

+ +

Peripheral Nerve, Sciatic

+ +

Peripheral Nerve, Tibial

+ +

Spinal Cord, Cervical

+ +

Spinal Cord, Lumbar

+ +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS FEMALE |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ANIMAL ID | females (cont...) |
|-------------|-----------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|-------------------|
|             | 01                                | 03 | 03 | 03 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 |           |                   |
| 2           | 4                                 | 8  | 8  | 8  | 3  | 5  | 5  | 6  | 6  | 8  | 8  | 8  | 9  | 9  | 2  | 3  | 5  | 5  | 8  | 8  | 9  | 3  | 6  | 6  | 6         | 6                 |
| 2           | 3                                 | 3  | 3  | 3  | 9  | 0  | 0  | 4  | 4  | 2  | 9  | 9  | 2  | 3  | 5  | 5  | 8  | 8  | 9  | 3  | 6  | 6  | 6  | 6  | 6         |                   |
| 01          | 11                                | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11        | 11                |
| 11          | 00                                | 00 | 00 | 00 | 01 | 01 | 00 | 00 | 01 | 00 | 01 | 01 | 01 | 00 | 01 | 00 | 01 | 00 | 01 | 00 | 01 | 00 | 01 | 00 | 00        | 00                |
| 22          | 99                                | 99 | 99 | 33 | 00 | 11 | 66 | 99 | 22 | 22 | 00 | 11 | 66 | 11 | 77 | 88 | 33 | 66 | 77 | 11 | 77 | 55 | 44 | 55 | 44        |                   |
| 22          | 66                                | 77 | 99 | 44 | 00 | 99 | 44 | 88 | 88 | 66 | 22 | 55 | 00 | 99 | 66 | 77 | 33 | 00 | 11 | 99 | 44 | 11 | 77 | 55 | 44        |                   |

|                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trigeminal Ganglion   | + | I | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | M |

RESPIRATORY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Uterus        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma, Metastatic, Thyroid Gland      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma, Metastatic, Skin |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nose                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

URINARY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Urinary Bladder                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant, Metastatic, Ovary      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Serosa, Adenocarcinoma, Metastatic, Pancreas |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

SYSTEMIC LESIONS

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

|  |             |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                              |
|--|-------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>3.0W/kg(GSM)chr</b> | DAY ON TEST |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |                              |
|  | ANIMAL ID   |  | 1 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |   |                              |
|  |             |  | 4 | 8 | 8 | 8 | 3 | 5 | 5 | 6 | 6 | 8 | 8 | 8 | 9 | 9 | 4 | 4 | 7 | 7 | 7 | 9 | 0 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |                              |
|  |             |  | 2 | 3 | 3 | 3 | 9 | 0 | 0 | 4 | 4 | 2 | 9 | 9 | 2 | 3 | 5 | 5 | 8 | 8 | 9 | 3 | 6 | 9 | 1 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |   |                              |
|  |             |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |                              |
|  |             |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |                              |
|  |             |  | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |                              |
|  |             |  | 2 | 9 | 9 | 9 | 3 | 0 | 1 | 6 | 9 | 2 | 2 | 0 | 0 | 1 | 6 | 1 | 7 | 8 | 3 | 6 | 7 | 1 | 7 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |   |                              |
|  |             |  | 2 | 6 | 7 | 9 | 4 | 0 | 9 | 4 | 8 | 8 | 6 | 2 | 5 | 0 | 9 | 6 | 7 | 3 | 0 | 1 | 9 | 4 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |                              |
|  |             |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>females<br/>(cont...)</b> |

Leukemia Mononuclear  
Lymphoma Malignant

X

X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: RATS/HSD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018  
 Time Report Requested: 11:58:55  
 First Dose M/F: 09/16/12 / 09/16/12  
 Lab: IIT

|  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                          |
|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------------|
|  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                          |
| DAY ON TEST                              |  | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                          |
| <b>HARLAN SPRAGUE DAWLEY RATS FEMALE</b> |  | 3 | 4 | 5 | 6 | 6 | 6 | 6 | 7 | 9 | 9 | 0 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |                          |
| <b>3.0W/kg(GSM)chr</b>                   |  | 6 | 0 | 6 | 1 | 2 | 9 | 9 | 1 | 5 | 9 | 6 | 3 | 0 | 0 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | <b>females (cont...)</b> |
| ANIMAL ID                                |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                          |
|  |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |                          |
|  |  | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |                          |
|  |  | 3 | 2 | 9 | 5 | 4 | 0 | 2 | 4 | 5 | 1 | 2 | 8 | 3 | 1 | 3 | 3 | 3 | 6 | 8 | 8 | 1 | 3 | 6 |                          |
|  |  | 2 | 3 | 2 | 7 | 6 | 1 | 7 | 8 | 0 | 1 | 5 | 0 | 6 | 3 | 5 | 0 | 8 | 5 | 8 | 7 | 7 | 7 | 7 |                          |

**ALIMENTARY SYSTEM**

|  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Esophagus                                    | +           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intestine Large, Cecum                       | A A + + A +     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Serosa, Adenocarcinoma, Metastatic, Pancreas | X   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intestine Large, Colon                       | A +         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intestine Large, Rectum                      | + A +       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intestine Small, Duodenum                    | A + + A + + + + A + + + + + + A + + + + + + + + + + + +       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intestine Small, Ileum                       | A A + + + + + + + + A + + + + + + A + + + + + + + + + + + +   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intestine Small, Jejunum                     | + A + + A + + + + A + + + + + + + + A + + + + + + + + + + + + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Liver  | +       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Adenocarcinoma, Metastatic, Pancreas         | X   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hepatocellular Adenoma                       |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mesentery                                    | +       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Adenocarcinoma, Metastatic, Pancreas         | X   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Schwannoma Malignant, Metastatic, Ovary      | X   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pancreas                                     | +       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Schwannoma Malignant, Metastatic, Ovary      | X   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Acinus, Adenocarcinoma                       | X   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Salivary Glands                              | +       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Myoepithelioma                               | X   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST     | HARLAN SPRAGUE DAWLEY RATS FEMALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females (cont...) |      |
|-----------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------------------|------|
|                 | 0636                              | 0640 | 0645 | 0661 | 0662 | 0666 | 0666 | 0667 | 0667 | 0667 | 0667 | 0667 | 0667 | 0667 | 0667 | 0667 | 0667 | 0667 | 0667 | 0667 | 0667 | 0667 | 0667 | 0667 |           |                   | 0667 |
| 3.0W/kg(GSM)chr | 0                                 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0100232761110032  |      |

Parotid Gland, Adenoma

Stomach, Forestomach Squamous Cell Papilloma

Stomach, Glandular Serosa, Adenocarcinoma, Metastatic, Pancreas

Tooth

CARDIOVASCULAR SYSTEM

Aorta

Heart Endocardium, Schwannoma Malignant Epicardium, Paraganglioma Myocardium, Schwannoma Malignant

ENDOCRINE SYSTEM

Adrenal Cortex Adenocarcinoma, Metastatic, Pancreas Adenoma

Adrenal Medulla Adenocarcinoma, Metastatic, Pancreas Pheochromocytoma Benign Pheochromocytoma Complex

Islets, Pancreatic Adenoma

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



Experiment Number: 20105 - 59

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>HARLAN SPRAGUE DAWLEY RATS FEMALE</b><br><b>3.0W/kg(GSM)chr</b> | DAY ON TEST | 0636 | 0640 | 0656 | 0661 | 0662 | 0666 | 0667 | 0669 | 0671 | 0675 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 |
|  | ANIMAL ID   | 0100 | 0101 | 0102 | 0103 | 0104 | 0105 | 0106 | 0107 | 0108 | 0109 | 0110 | 0111 | 0112 | 0113 | 0114 | 0115 | 0116 | 0117 | 0118 | 0119 | 0120 | 0121 | 0122 | 0123 | 0124 | 0125 | 0126 |

females (cont...)

|                         |  |   |   |  |  |  |  |  |  |  |  |   |   |  |   |  |  |   |  |  |  |  |  |  |  |  |  |
|-------------------------|--|---|---|--|--|--|--|--|--|--|--|---|---|--|---|--|--|---|--|--|--|--|--|--|--|--|--|
| Leiomyosarcoma          |  |   |   |  |  |  |  |  |  |  |  |   |   |  |   |  |  |   |  |  |  |  |  |  |  |  |  |
| Polyp Stromal           |  |   | X |  |  |  |  |  |  |  |  | X | X |  |   |  |  | X |  |  |  |  |  |  |  |  |  |
| Polyp Stromal, Multiple |  |   |   |  |  |  |  |  |  |  |  |   |   |  | X |  |  |   |  |  |  |  |  |  |  |  |  |
| Sarcoma Stromal         |  |   |   |  |  |  |  |  |  |  |  |   |   |  |   |  |  |   |  |  |  |  |  |  |  |  |  |
| Schwannoma Malignant    |  |   |   |  |  |  |  |  |  |  |  |   |   |  |   |  |  |   |  |  |  |  |  |  |  |  |  |
| Squamous Cell Carcinoma |  | X |   |  |  |  |  |  |  |  |  |   |   |  |   |  |  |   |  |  |  |  |  |  |  |  |  |

Vagina

**HEMATOPOIETIC SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node  | + |   |   | + |   | + | + |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   | + |
| Mediastinal, Adenocarcinoma, Metastatic, Pancreas |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mandibular                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric Hemangiosarcoma            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |
| Spleen  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymus  | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**INTEGUMENTARY SYSTEM**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adenoma        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fibroadenoma   | X |   | X |   |   |   |   | X | X |   | X |   |   | X |   |   |   |   | X | X |   | X |   |   | X |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>3.0W/kg(GSM)chr | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | females<br>(cont...) |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                      |
|   |             | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |           |                      |
|   |             | 3 | 4 | 5 | 6 | 6 | 6 | 6 | 7 | 9 | 9 | 0 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |           |                      |
|   |             | 6 | 0 | 6 | 1 | 2 | 9 | 9 | 1 | 5 | 9 | 6 | 3 | 0 | 0 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 |           |                      |
|   |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                      |
|   |             | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |           |                      |
|   |             | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |           |                      |
|   |             | 3 | 2 | 9 | 5 | 4 | 0 | 2 | 4 | 5 | 1 | 2 | 8 | 3 | 1 | 3 | 3 | 3 | 3 | 6 | 8 | 8 | 1 | 3 | 6 | 7 |           |                      |
|   |             | 2 | 3 | 2 | 7 | 6 | 1 | 7 | 8 | 0 | 1 | 5 | 0 | 6 | 3 | 5 | 0 | 8 | 3 | 1 | 8 | 5 | 7 | 7 | 3 | 0 |           |                      |

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fibroadenoma, Multiple       |   |   |   | X | X |   |   |   | X |   | X |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |
| Skin                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pilomatrixoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Papilloma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Fibroma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Subcutaneous Tissue, Lipoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |

**MUSCULOSKELETAL SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Diaphragm, Adenocarcinoma, Metastatic,<br>Pancreas |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**NERVOUS SYSTEM**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Meninges, Granular Cell Tumor Benign |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nerve Trigeminal                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Sciatic            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Tibial             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Cervical                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Lumbar                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically



Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

|   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>3.0W/kg(GSM)chr | DAY ON TEST | 0636  | 0640  | 0656  | 0661  | 0662  | 0669  | 0669  | 0661  | 0665  | 0669  | 0676  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  |
|   | ANIMAL ID   | 01032 | 01195 | 01104 | 01100 | 01101 | 01101 | 01100 | 01101 | 01101 | 01100 | 01101 | 01101 | 01101 | 01101 | 01101 | 01101 | 01101 | 01101 | 01101 | 01101 | 01101 | 01101 | 01101 |
|   |             | 0636  | 0640  | 0656  | 0661  | 0662  | 0669  | 0669  | 0661  | 0665  | 0669  | 0676  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  |

females  
(cont...)

Leukemia Mononuclear  
Lymphoma Malignant

X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018  
 Time Report Requested: 11:58:55  
 First Dose M/F: 09/16/12 / 09/16/12  
 Lab: IIT

| DAY ON TEST   |           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>3.0W/kg(GSM)chr | ANIMAL ID | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |
|   |           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|   |           | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|   |           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   |           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|   |           | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
|   |           | 7 | 8 | 8 | 8 | 9 | 0 | 2 | 3 | 3 | 5 | 6 | 6 | 7 | 1 | 2 | 4 | 4 | 5 | 7 | 9 | 0 | 1 | 2 | 4 | 6 | 6 |
|   |           | 8 | 4 | 8 | 3 | 7 | 8 | 3 | 9 | 3 | 6 | 7 | 4 | 2 | 0 | 0 | 2 | 6 | 6 | 1 | 8 | 8 | 5 | 2 | 5 | 5 | 5 |

females  
(cont...)

ALIMENTARY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum<br>Serosa, Adenocarcinoma, Metastatic,<br>Pancreas                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum   | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver<br>Adenocarcinoma, Metastatic, Pancreas<br>Hepatocellular Adenoma                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery<br>Adenocarcinoma, Metastatic, Pancreas<br>Schwannoma Malignant, Metastatic, Ovary |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas<br>Schwannoma Malignant, Metastatic, Ovary<br>Acinus, Adenocarcinoma                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands<br>Myoepithelioma  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>3.0W/kg(GSM)chr | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ANIMAL ID | females<br>(cont...) |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                      |
|   | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7         |                      |
|   | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3         |                      |
|   | 8           | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9         |                      |
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         |                      |
|   | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1         |                      |
|   | 0           | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0         |                      |
|   | 7           | 8 | 8 | 9 | 0 | 2 | 3 | 3 | 5 | 6 | 6 | 7 | 4 | 1 | 2 | 4 | 4 | 5 | 7 | 9 | 0 | 1 | 2 | 4 | 6 | 6         |                      |
|   | 8           | 4 | 8 | 3 | 7 | 8 | 3 | 9 | 3 | 6 | 7 | 4 | 2 | 0 | 0 | 2 | 6 | 6 | 1 | 8 | 8 | 9 | 5 | 2 | 5 | 5         |                      |

Parotid Gland, Adenoma

X

Stomach, Forestomach  
Squamous Cell Papilloma

+ +

Stomach, Glandular  
Serosa, Adenocarcinoma, Metastatic,  
Pancreas

+ +

Tooth

CARDIOVASCULAR SYSTEM

Aorta

+ +

Heart

+ +

Endocardium, Schwannoma Malignant  
Epicardium, Paraganglioma  
Myocardium, Schwannoma Malignant

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

Adenocarcinoma, Metastatic, Pancreas  
Adenoma

Adrenal Medulla

+ +

Adenocarcinoma, Metastatic, Pancreas  
Pheochromocytoma Benign  
Pheochromocytoma Complex

X

X

Islets, Pancreatic

+ +

Adenoma

X

X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>3.0W/kg(GSM)chr | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | females<br>(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
|   | 0<br>7<br>3<br>8      | 0<br>7<br>3<br>8      | 0<br>7<br>3<br>8      | 0<br>7<br>3<br>8      | 0<br>7<br>3<br>8      | 0<br>7<br>3<br>9      | 0<br>7<br>3<br>9      | 0<br>7<br>3<br>9      | 0<br>7<br>3<br>9      | 0<br>7<br>3<br>9      | 0<br>7<br>3<br>9      | 0<br>7<br>3<br>9      | 0<br>7<br>3<br>9      | 0<br>7<br>3<br>9      | 0<br>7<br>3<br>9      | 0<br>7<br>4<br>0      | 0<br>7<br>4<br>0      | 0<br>7<br>4<br>0      | 0<br>7<br>4<br>0      | 0<br>7<br>4<br>0      | 0<br>7<br>4<br>0      | 0<br>7<br>4<br>0      | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>1      |                       |                      |
|   | 0<br>1<br>0<br>7<br>8 | 0<br>1<br>0<br>8<br>4 | 0<br>1<br>0<br>8<br>8 | 0<br>1<br>0<br>9<br>3 | 0<br>1<br>0<br>0<br>7 | 0<br>1<br>0<br>2<br>8 | 0<br>1<br>0<br>3<br>3 | 0<br>1<br>0<br>3<br>3 | 0<br>1<br>0<br>5<br>6 | 0<br>1<br>0<br>6<br>6 | 0<br>1<br>0<br>7<br>7 | 0<br>1<br>0<br>1<br>4 | 0<br>1<br>0<br>1<br>2 | 0<br>1<br>0<br>2<br>0 | 0<br>1<br>0<br>4<br>0 | 0<br>1<br>0<br>4<br>2 | 0<br>1<br>0<br>5<br>6 | 0<br>1<br>0<br>7<br>6 | 0<br>1<br>0<br>9<br>1 | 0<br>1<br>0<br>0<br>8 | 0<br>1<br>0<br>1<br>8 | 0<br>1<br>0<br>2<br>9 | 0<br>1<br>0<br>4<br>5 | 0<br>1<br>0<br>6<br>2 | 0<br>1<br>0<br>6<br>5 |                      |

Carcinoma

X

Parathyroid Gland

+ + + + + + + + + + + I + + + + + + + + M + + +

Pituitary Gland

+ +

Pars Distalis, Adenoma

X X

Pars Distalis, Adenoma, Multiple

X

X

Thyroid Gland

+ +

C-cell, Adenoma

X X

X

C-cell, Carcinoma

X

GENERAL BODY SYSTEM

Tissue NOS

+

+

+

Chemodectoma Benign

X

Fat, Adenocarcinoma, Metastatic, Uterus

GENITAL SYSTEM

Clitoral Gland

+ +

Ovary

+ +

Adenocarcinoma, Metastatic, Pancreas

Cystadenoma

Granulosa Cell Tumor Malignant

Schwannoma Malignant

Sex Cord Stromal Tumor, Benign

X

Uterus

+ +

Adenocarcinoma

X

Adenocarcinoma, Metastatic, Pancreas

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

| DAY ON TEST                                       |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE              |  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 3.0W/kg(GSM)chr                                   |  | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| ANIMAL ID   |  | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|   |  | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
|   |  | 7 | 8 | 8 | 9 | 0 | 2 | 3 | 3 | 5 | 6 | 6 | 7 | 1 | 2 | 4 | 4 | 5 | 7 | 9 | 0 | 1 | 1 | 2 | 4 | 6 | 6 | 6 |
|   |  | 8 | 4 | 8 | 3 | 7 | 8 | 3 | 9 | 3 | 6 | 7 | 4 | 2 | 0 | 0 | 2 | 6 | 6 | 1 | 8 | 8 | 9 | 5 | 2 | 5 | 5 | 5 |
| Leiomyosarcoma                                    |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Polyp Stromal                                     |  |   |   |   | X |   |   |   |   | X |   | X |   |   | X |   |   |   | X |   |   |   |   |   |   |   |   |   |
| Polyp Stromal, Multiple                           |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sarcoma Stromal                                   |  |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Schwannoma Malignant                              |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma                           |  | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Vagina  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>HEMATOPOIETIC SYSTEM</b>                       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bone Marrow                                       |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node  |  |   | + |   | + |   |   |   |   | + |   |   |   |   | + |   |   |   | + | + |   | + |   |   |   |   |   |   |
| Mediastinal, Adenocarcinoma, Metastatic, Pancreas |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mandibular                            |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + |
| Lymph Node, Mesenteric Hemangiosarcoma            |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen  |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymus  |  | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant                              |  |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>INTEGUMENTARY SYSTEM</b>                       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mammary Gland                                     |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma                                    |  |   | X |   |   |   | X | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adenoma   |  | X |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fibroadenoma                                      |  | X | X | X |   | X |   |   |   |   |   | X | X | X |   |   |   | X | X |   |   | X | X | X |   |   |   |   |

females  
(cont...)

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59  
Test Type: CHRONIC  
Route: Whole Body Exposure  
Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM  
CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018  
Time Report Requested: 11:58:55  
First Dose M/F: 09/16/12 / 09/16/12  
Lab: IIT

| DAY ON TEST     | HARLAN SPRAGUE DAWLEY RATS FEMALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females (cont...) |
|-----------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------------------|
|                 | 0738                              | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 |           |                   |
| 3.0W/kg(GSM)chr | 0                                 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |           |                   |
| 1               | 1                                 | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |           |                   |
| 0               | 0                                 | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 1    | 0    | 0    | 0    | 0    | 1    | 1    | 1    | 0    | 0    | 0    |           |                   |
| 7               | 8                                 | 8    | 9    | 0    | 2    | 3    | 3    | 5    | 6    | 6    | 7    | 1    | 2    | 4    | 4    | 5    | 7    | 9    | 0    | 1    | 1    | 2    | 4    | 6    |           |                   |
| 8               | 4                                 | 8    | 3    | 7    | 8    | 3    | 9    | 3    | 6    | 7    | 4    | 2    | 0    | 0    | 2    | 6    | 6    | 1    | 8    | 8    | 9    | 5    | 6    | 5    |           |                   |

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fibroadenoma, Multiple       |   |   |   | X |   | X | X |   | X | X |   |   |   |   | X | X |   | X | X |   |   |   |   | X |
| Skin                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pilomatrixoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Papilloma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Fibroma |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Lipoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

MUSCULOSKELETAL SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Diaphragm, Adenocarcinoma, Metastatic, Pancreas |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

NERVOUS SYSTEM

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Meninges, Granular Cell Tumor Benign |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |
| Nerve Trigeminal                     | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Sciatic            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Tibial             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Cervical                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Lumbar                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically



Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>3.0W/kg(GSM)chr | DAY ON TEST | 0738 | 0738 | 0738 | 0738 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0739 | 0740 | 0740 | 0740 | 0740 | 0740 | 0740 | 0741 | 0741 | 0741 | females<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
|   | ANIMAL ID   | 0108 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 | 0118 |                      |

|                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trigeminal Ganglion   | + | + | + | M | + | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + | M | + | + | + | + |

RESPIRATORY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Uterus        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma, Metastatic, Thyroid Gland      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |
| Squamous Cell Carcinoma, Metastatic, Skin |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nose                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

URINARY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Urinary Bladder                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant, Metastatic, Ovary      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Serosa, Adenocarcinoma, Metastatic, Pancreas |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

SYSTEMIC LESIONS

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

| DAY ON TEST                                  |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE</b> | <b>3.0W/kg(GSM)chr</b> | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|  |                        | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID                                    |                        | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| ANIMAL ID                                    |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID                                    |                        | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ANIMAL ID                                    |                        | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID                                    |                        | 7 | 8 | 8 | 8 | 9 | 0 | 2 | 3 | 3 | 5 | 6 | 6 | 7 | 1 | 2 | 4 | 4 | 5 | 7 | 9 | 0 | 1 | 2 | 4 | 6 | 6 |   |
| ANIMAL ID                                    |                        | 8 | 4 | 8 | 3 | 7 | 8 | 3 | 9 | 3 | 6 | 7 | 4 | 2 | 0 | 0 | 2 | 6 | 6 | 1 | 8 | 8 | 9 | 5 | 2 | 5 | 5 |   |

females  
(cont...)

Leukemia Mononuclear  
Lymphoma Malignant

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                       |   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS</b> | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|                                   | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| <b>FEMALE</b>                     | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| <b>3.0W/kg(GSM)chr</b>            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ANIMAL ID                         | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
|                                   | 7 | 8 | 0 | 1 | 2 | 2 | 2 | 5 | 5 | 5 | 8 | 0 | 0 | 4 | 5 | 5 | 2 |
|                                   | 5 | 6 | 4 | 5 | 4 | 7 | 9 | 5 | 8 | 9 | 1 | 3 | 9 | 1 | 2 |   |   |
| <b>* TOTALS</b>                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Intestine Large, Cecum                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 83 |
| Serosa, Adenocarcinoma, Metastatic, Pancreas |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Large, Colon                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Intestine Large, Rectum                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Intestine Small, Duodenum                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 83 |
| Intestine Small, Ileum                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 81 |
| Intestine Small, Jejunum                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 81 |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenocarcinoma, Metastatic, Pancreas         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Hepatocellular Adenoma                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Mesentery                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 5  |
| Adenocarcinoma, Metastatic, Pancreas         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Schwannoma Malignant, Metastatic, Ovary      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pancreas                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Schwannoma Malignant, Metastatic, Ovary      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Acinus, Adenocarcinoma                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Salivary Glands                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Myoepithelioma                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID |  |                 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--|-----------------|
|  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |           |  |                 |
| <b>HARLAN SPRAGUE DAWLEY RATS</b>            | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |           |  |                 |
| <b>FEMALE</b>                                | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |           |  |                 |
| <b>3.0W/kg(GSM)chr</b>                       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |  |                 |
|  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |           |  |                 |
|  | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |           |  |                 |
|  | 7 | 8 | 0 | 1 | 2 | 2 | 2 | 5 | 5 | 5 | 8 | 0 | 0 | 4 | 5 | 2 |           |  |                 |
|  | 5 | 6 | 4 | 5 | 4 | 7 | 9 | 5 | 8 | 9 | 1 | 3 | 9 | 1 | 2 |   |           |  | <b>* TOTALS</b> |
| Parotid Gland, Adenoma                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>1</b>        |
| Stomach, Forestomach                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |  | <b>90</b>       |
| Squamous Cell Papilloma                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>1</b>        |
| Stomach, Glandular                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |  | <b>90</b>       |
| Serosa, Adenocarcinoma, Metastatic, Pancreas |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>1</b>        |
| Tooth  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>1</b>        |
| <b>CARDIOVASCULAR SYSTEM</b>                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  |                 |
| Aorta  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |  | <b>90</b>       |
| Heart  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |  | <b>90</b>       |
| Endocardium, Schwannoma Malignant            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>1</b>        |
| Epicardium, Paraganglioma                    |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>1</b>        |
| Myocardium, Schwannoma Malignant             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>1</b>        |
| <b>ENDOCRINE SYSTEM</b>                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  |                 |
| Adrenal Cortex                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |  | <b>89</b>       |
| Adenocarcinoma, Metastatic, Pancreas         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>1</b>        |
| Adenoma                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>1</b>        |
| Adrenal Medulla                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |  | <b>90</b>       |
| Adenocarcinoma, Metastatic, Pancreas         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>1</b>        |
| Pheochromocytoma Benign                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>3</b>        |
| Pheochromocytoma Complex                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>1</b>        |
| Islets, Pancreatic                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |  | <b>90</b>       |
| Adenoma                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>3</b>        |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>3.0W/kg(GSM)chr | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
|   | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>1      |          |
| ANIMAL ID   | 0<br>1<br>0<br>7<br>5 | 0<br>1<br>0<br>8<br>6 | 0<br>1<br>0<br>1<br>4 | 0<br>1<br>1<br>1<br>5 | 0<br>1<br>1<br>2<br>4 | 0<br>1<br>0<br>2<br>7 | 0<br>1<br>0<br>2<br>9 | 0<br>1<br>0<br>5<br>5 | 0<br>1<br>0<br>5<br>8 | 0<br>1<br>0<br>5<br>9 | 0<br>1<br>0<br>8<br>1 | 0<br>1<br>0<br>0<br>3 | 0<br>1<br>1<br>0<br>9 | 0<br>1<br>0<br>0<br>1 | 0<br>1<br>0<br>4<br>2 |          |
| Carcinoma   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 4                     |          |
| Parathyroid Gland                                       | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | M                     | +                     | +                     | 82                    |          |
| Pituitary Gland   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Pars Distalis, Adenoma                                  |                       |                       | X                     |                       |                       | X                     |                       | X                     | X                     |                       |                       |                       |                       |                       | 35                    |          |
| Pars Distalis, Adenoma, Multiple                        |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       | 3                     |          |
| Thyroid Gland   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| C-cell, Adenoma   |                       |                       |                       | X                     |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       | 8                     |          |
| C-cell, Carcinoma                                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| <b>GENERAL BODY SYSTEM</b>                              |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Tissue NOS  |                       |                       |                       |                       | +                     |                       |                       |                       |                       |                       |                       |                       |                       | +                     | 8                     |          |
| Chemodectoma Benign                                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Fat, Adenocarcinoma, Metastatic, Uterus                 |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| <b>GENITAL SYSTEM</b>                                   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Clitoral Gland  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 86                    |          |
| Ovary   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Adenocarcinoma, Metastatic, Pancreas                    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Cystadenoma   |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Granulosa Cell Tumor Malignant                          |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Schwannoma Malignant                                    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Sex Cord Stromal Tumor, Benign                          |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Uterus  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Adenocarcinoma  |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |          |
| Adenocarcinoma, Metastatic, Pancreas                    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>3.0W/kg(GSM)chr | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               | ANIMAL ID |  |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|-----------|--|
|   |             | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7               |           |  |
|   |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4               |           |  |
|   |             | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5               |           |  |
|   |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               |           |  |
|   |             | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1               |           |  |
|   |             | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0               |           |  |
|   |             | 7 | 8 | 0 | 1 | 2 | 2 | 2 | 5 | 5 | 5 | 8 | 0 | 0 | 4 | 5               |           |  |
|   |             | 5 | 6 | 4 | 5 | 4 | 7 | 9 | 5 | 8 | 9 | 1 | 3 | 9 | 1 | 2               |           |  |
|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |           |  |

|                         |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |    |
|-------------------------|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|----|
| Leiomyosarcoma          |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  | 1  |
| Polyp Stromal           |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  | 10 |
| Polyp Stromal, Multiple |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  | 1  |
| Sarcoma Stromal         |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  | 2  |
| Schwannoma Malignant    |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  | 1  |
| Squamous Cell Carcinoma |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  | 2  |

|        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Vagina |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|

**HEMATOPOIETIC SYSTEM**

|   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |    |
|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|----|
| Bone Marrow                                       |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  | 90 |
| Lymph Node  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  | 21 |
| Mediastinal, Adenocarcinoma, Metastatic, Pancreas |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  | 1  |
| Lymph Node, Mandibular                            |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  | 89 |
| Lymph Node, Mesenteric Hemangiosarcoma            |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  | 90 |
| Hemangiosarcoma                                   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  | 1  |
| Spleen  |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  | 90 |
| Thymus  |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  | 88 |
| Schwannoma Malignant                              |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  | 1  |

**INTEGUMENTARY SYSTEM**

|                |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |    |    |
|----------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|----|----|
| Mammary Gland  |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  | 89 |    |
| Adenocarcinoma |  |   |   | X |   |   |   |   |   |   |   |   |   |   |   |  |  |    | 8  |
| Adenoma        |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |    | 2  |
| Fibroadenoma   |  |   |   | X | X |   |   |   | X |   |   |   | X |   |   |  |  |    | 38 |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                                     | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |
|---|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
|   | 7               | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |           |
| <b>HARLAN SPRAGUE DAWLEY RATS</b>               | 4               | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |           |
| <b>FEMALE</b>                                   | 1               | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 |           |
| <b>3.0W/kg(GSM)chr</b>                          |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| ANIMAL ID                                       | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |
|   | 1               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |           |
|   | 0               | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |           |
|   | 7               | 8 | 0 | 1 | 2 | 2 | 2 | 5 | 5 | 5 | 8 | 0 | 0 | 4 | 5 |           |
|   | 5               | 6 | 4 | 5 | 4 | 7 | 9 | 5 | 8 | 9 | 1 | 3 | 9 | 1 | 2 |           |
|   | <b>* TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Fibroadenoma, Multiple                          | X X             |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>22</b> |
| Skin  | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Pilomatrixoma                                   |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Squamous Cell Carcinoma                         |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Squamous Cell Papilloma                         |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Subcutaneous Tissue, Fibroma                    |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| Subcutaneous Tissue, Lipoma                     |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| <b>MUSCULOSKELETAL SYSTEM</b>                   |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Bone  | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Skeletal Muscle                                 | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Diaphragm, Adenocarcinoma, Metastatic, Pancreas |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| <b>NERVOUS SYSTEM</b>                           |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Brain   | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Meninges, Granular Cell Tumor Benign            |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| Nerve Trigeminal                                | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>89</b> |
| Peripheral Nerve, Sciatic                       | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Peripheral Nerve, Tibial                        | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Spinal Cord, Cervical                           | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Spinal Cord, Lumbar                             | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
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CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>3.0W/kg(GSM)chr | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID |  |                 |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--|-----------------|
|   |             | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |           |  |                 |
|   |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |           |  |                 |
|   |             | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |           |  |                 |
|   |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |  |                 |
|   |             | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |           |  |                 |
|   |             | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |           |  |                 |
|   |             | 7 | 8 | 0 | 1 | 2 | 2 | 2 | 5 | 5 | 5 | 8 | 0 | 0 | 4 | 5 |           |  |                 |
|   |             | 5 | 6 | 4 | 5 | 4 | 7 | 9 | 5 | 8 | 9 | 1 | 3 | 9 | 1 | 2 |           |  |                 |
|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>* TOTALS</b> |
| Spinal Cord, Thoracic                                   |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |  | <b>90</b>       |
| Trigeminal Ganglion                                     |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M |           |  | <b>80</b>       |
| <b>RESPIRATORY SYSTEM</b>                               |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  |                 |
| Lung  |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |  | <b>90</b>       |
| Adenocarcinoma, Metastatic, Uterus                      |             |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |           |  | <b>1</b>        |
| Carcinoma, Metastatic, Thyroid Gland                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>1</b>        |
| Squamous Cell Carcinoma, Metastatic, Skin               |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>1</b>        |
| Nose  |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |  | <b>90</b>       |
| Trachea   |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |  | <b>89</b>       |
| <b>SPECIAL SENSES SYSTEM</b>                            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  |                 |
| Eye   |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |  | <b>87</b>       |
| Harderian Gland   |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |  | <b>90</b>       |
| <b>URINARY SYSTEM</b>                                   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  |                 |
| Kidney  |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |  | <b>90</b>       |
| Urinary Bladder   |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |  | <b>90</b>       |
| Schwannoma Malignant, Metastatic, Ovary                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>1</b>        |
| Serosa, Adenocarcinoma, Metastatic, Pancreas            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  | <b>1</b>        |
| <b>SYSTEMIC LESIONS</b>                                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |  |                 |
| Multiple Organ  |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |  | <b>90</b>       |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically



Experiment Number: 20105 - 59

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>3.0W/kg(GSM)chr | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
|   | ANIMAL ID   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                 |
|   |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |                 |
|   |             | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 |                 |
|   |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
|   |             | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |                 |
|   |             | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |                 |
|   |             | 7 | 8 | 0 | 1 | 2 | 2 | 2 | 5 | 5 | 5 | 8 | 0 | 0 | 4 |                 |
|   |             | 5 | 6 | 4 | 5 | 4 | 7 | 9 | 5 | 8 | 9 | 1 | 3 | 9 | 1 |                 |
|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |

Leukemia Mononuclear  
Lymphoma Malignant

1  
2

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

| DAY ON TEST                       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                 | 0 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------------|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS FEMALE | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6                 | 6 | 6 | 6 | 6 |
| 6.0W/kg(GSM)chr                   | 8 | 9 | 9 | 0 | 7 | 4 | 8 | 8 | 1 | 4 | 4 | 4 | 6 | 9 | 9 | 0 | 2 | 2 | 2 | 4 | 4 | 5 | 5 | 5 | 5 | 5                 | 5 | 5 | 5 | 5 |
| ANIMAL ID                         | 3 | 0 | 9 | 0 | 0 | 3 | 7 | 9 | 4 | 5 | 5 | 8 | 5 | 3 | 4 | 0 | 2 | 4 | 4 | 1 | 5 | 1 | 6 | 8 | 9 |                   |   |   |   |   |
|                                   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                 | 0 | 0 | 0 | 0 |
|                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                 | 1 | 1 | 1 | 1 |
|                                   | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 2                 | 2 | 2 | 2 | 2 |
|                                   | 6 | 5 | 8 | 3 | 8 | 2 | 3 | 6 | 2 | 3 | 1 | 4 | 8 | 3 | 9 | 0 | 4 | 6 | 0 | 0 | 7 | 1 | 4 | 7 | 4 | 4                 | 4 | 4 | 4 |   |
|                                   | 8 | 6 | 0 | 5 | 4 | 4 | 0 | 0 | 8 | 3 | 8 | 2 | 6 | 3 | 9 | 0 | 3 | 5 | 3 | 8 | 5 | 7 | 1 | 4 | 0 | 6                 | 6 | 6 | 6 |   |
|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | females (cont...) |   |   |   |   |

ALIMENTARY SYSTEM

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | A | A | A | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Small, Ileum    | + | + | A | + | + | + | + | + | + | + | A | + | + | + | A | + | + | A | A | + | A | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | A | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Hepatocellular Adenoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesentery                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| +                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + |   |   |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Schwannoma Malignant      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Stomach, Glandular        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |

CARDIOVASCULAR SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>6.0W/kg(GSM)chr | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | females<br>(cont...)  |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|   | 0<br>2<br>8<br>3      | 0<br>2<br>9<br>0      | 0<br>2<br>9<br>9      | 0<br>3<br>0<br>0      | 0<br>3<br>7<br>4      | 0<br>4<br>4<br>8      | 0<br>4<br>4<br>8      | 0<br>4<br>4<br>8      | 0<br>5<br>1<br>4      | 0<br>5<br>4<br>5      | 0<br>5<br>4<br>5      | 0<br>5<br>4<br>5      | 0<br>5<br>4<br>5      | 0<br>5<br>4<br>5      | 0<br>6<br>9<br>0      | 0<br>6<br>9<br>0      | 0<br>6<br>2<br>2      | 0<br>6<br>2<br>2      | 0<br>6<br>4<br>4      | 0<br>6<br>4<br>4      | 0<br>6<br>4<br>4      | 0<br>6<br>5<br>1      | 0<br>6<br>5<br>5      | 0<br>6<br>5<br>5      |                       |                       |
|   | 0<br>1<br>2<br>6<br>8 | 0<br>1<br>2<br>5<br>6 | 0<br>1<br>2<br>8<br>0 | 0<br>1<br>2<br>3<br>5 | 0<br>1<br>2<br>8<br>4 | 0<br>1<br>2<br>3<br>4 | 0<br>1<br>2<br>3<br>0 | 0<br>1<br>2<br>6<br>0 | 0<br>1<br>2<br>2<br>8 | 0<br>1<br>3<br>3<br>7 | 0<br>1<br>2<br>3<br>8 | 0<br>1<br>2<br>3<br>1 | 0<br>1<br>2<br>2<br>4 | 0<br>1<br>3<br>8<br>3 | 0<br>1<br>2<br>9<br>0 | 0<br>1<br>2<br>3<br>4 | 0<br>1<br>2<br>2<br>3 | 0<br>1<br>2<br>6<br>5 | 0<br>1<br>3<br>0<br>8 | 0<br>1<br>3<br>0<br>3 | 0<br>1<br>3<br>7<br>5 | 0<br>1<br>2<br>1<br>7 | 0<br>1<br>2<br>4<br>1 | 0<br>1<br>2<br>7<br>0 | 0<br>1<br>2<br>4<br>0 | 0<br>1<br>2<br>7<br>6 |

|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

ENDOCRINE SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex<br>Adenoma   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |
| Adrenal Medulla<br>Pheochromocytoma Benign<br>Bilateral, Pheochromocytoma Benign    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Islets, Pancreatic<br>Adenoma<br>Carcinoma  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + |   |
| Parathyroid Gland   | + | + | + | + | + | + | + | + | + | + | + | M | M | + | + | + | M | + | + | + | + | + | I | + | + |   |
| Pituitary Gland<br>Pars Distalis, Adenoma<br>Pars Distalis, Carcinoma               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | X |
| Thyroid Gland<br>Bilateral, C-cell, Adenoma<br>C-cell, Adenoma<br>C-cell, Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | X |

GENERAL BODY SYSTEM

|            |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS |  |  |  |  |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>6.0W/kg(GSM)chr | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | females<br>(cont...)  |                       |                       |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|   | 0<br>2<br>8<br>3      | 0<br>2<br>9<br>0      | 0<br>2<br>9<br>9      | 0<br>3<br>0<br>0      | 0<br>3<br>7<br>4      | 0<br>4<br>4<br>8      | 0<br>4<br>4<br>8      | 0<br>4<br>4<br>8      | 0<br>5<br>1<br>4      | 0<br>5<br>4<br>5      | 0<br>5<br>4<br>5      | 0<br>5<br>4<br>5      | 0<br>5<br>4<br>6      | 0<br>5<br>9<br>9      | 0<br>6<br>0<br>0      | 0<br>6<br>2<br>2      | 0<br>6<br>2<br>2      | 0<br>6<br>4<br>4      | 0<br>6<br>4<br>4      | 0<br>6<br>5<br>1      |                       |                       | 0<br>6<br>5<br>6      | 0<br>6<br>5<br>8      |
|   | 0<br>1<br>2<br>6<br>8 | 0<br>1<br>2<br>5<br>6 | 0<br>1<br>2<br>8<br>0 | 0<br>1<br>3<br>3<br>5 | 0<br>1<br>2<br>8<br>4 | 0<br>1<br>3<br>3<br>2 | 0<br>1<br>3<br>6<br>0 | 0<br>1<br>2<br>3<br>0 | 0<br>1<br>3<br>2<br>8 | 0<br>1<br>2<br>3<br>7 | 0<br>1<br>3<br>1<br>8 | 0<br>1<br>2<br>4<br>2 | 0<br>1<br>2<br>8<br>6 | 0<br>1<br>3<br>9<br>3 | 0<br>1<br>2<br>0<br>0 | 0<br>1<br>2<br>6<br>3 | 0<br>1<br>2<br>6<br>5 | 0<br>1<br>3<br>3<br>8 | 0<br>1<br>3<br>3<br>8 | 0<br>1<br>2<br>7<br>5 | 0<br>1<br>3<br>1<br>7 | 0<br>1<br>2<br>4<br>1 | 0<br>1<br>2<br>7<br>0 | 0<br>1<br>2<br>4<br>6 |

GENITAL SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland<br>Squamous Cell Carcinoma  | + | + | + | + | + | + | + | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary<br>Tubulostromal Carcinoma<br>Bilateral, Rete Ovarii, Adenoma  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Uterus<br>Adenocarcinoma<br>Adenoma<br>Polyp Stromal<br>Polyp Stromal, Multiple<br>Cervix, Malignant Mixed Mullerian Tumor<br>Cervix, Schwannoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   | X |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Vagina   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

HEMATOPOIETIC SYSTEM

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node                |   |   | + |   |   |   |   |   | + |   |   | + |   |   |   |   |   |   |   |   | + | + |   |   |   |
| Lymph Node, Mandibular    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen<br>Hemangiosarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|                           |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
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BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS FEMALE |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ANIMAL ID | females (cont...) |                   |
|-------------|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-------------------|-------------------|
|             | 0                                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                   | 0                 |
| 2           | 2                                 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6         | 1                 | females (cont...) |
| 8           | 9                                 | 9 | 9 | 0 | 7 | 4 | 8 | 8 | 1 | 4 | 4 | 4 | 6 | 9 | 9 | 0 | 2 | 2 | 2 | 4 | 4 | 5 | 5 | 5 | 6         | 2                 |                   |
| 3           | 0                                 | 9 | 0 | 0 | 3 | 7 | 9 | 4 | 5 | 5 | 8 | 5 | 3 | 4 | 0 | 2 | 4 | 4 | 1 | 5 | 1 | 6 | 8 | 9 | 3         |                   |                   |
| 0           | 0                                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         | 4                 |                   |
| 1           | 1                                 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1         | 5                 |                   |
| 2           | 2                                 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 2         | 6                 |                   |
| 6           | 5                                 | 8 | 3 | 8 | 2 | 3 | 6 | 2 | 3 | 1 | 4 | 8 | 3 | 9 | 0 | 4 | 6 | 0 | 0 | 7 | 1 | 4 | 7 | 4 | 7         |                   |                   |
| 8           | 6                                 | 0 | 5 | 4 | 4 | 4 | 0 | 0 | 8 | 7 | 8 | 2 | 6 | 3 | 9 | 0 | 3 | 5 | 3 | 8 | 5 | 7 | 1 | 0 | 8         |                   |                   |

Thymus + + + + I + + + + + + + M + + + + + + + + + + + + + +

INTEGUMENTARY SYSTEM

Mammary Gland +  
 Adenocarcinoma X X  
 Adenoma  
 Fibroadenoma X X X X X X X X X X X X X X X X X X X  
 Fibroadenoma, Multiple X  
 Myoepithelioma

Skin +  
 Keratoacanthoma  
 Squamous Cell Carcinoma  
 Subcutaneous Tissue, Fibroma  
 Subcutaneous Tissue, Fibrosarcoma

MUSCULOSKELETAL SYSTEM

Bone +  
 Skeletal Muscle +

NERVOUS SYSTEM

Brain +  
 Carcinoma, Metastatic, Pituitary Gland  
 Glioma Malignant X  
 Meninges, Granular Cell Tumor Malignant  
 Nerve Trigeminal +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>6.0W/kg(GSM)chr | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | females<br>(cont...) |                  |                  |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|------------------|------------------|
|   | 0<br>2<br>8<br>3 | 0<br>2<br>9<br>0 | 0<br>2<br>9<br>9 | 0<br>3<br>0<br>0 | 0<br>3<br>7<br>4 | 0<br>4<br>4<br>8 | 0<br>4<br>4<br>8 | 0<br>4<br>4<br>8 | 0<br>5<br>1<br>4 | 0<br>5<br>4<br>5 | 0<br>5<br>4<br>5 | 0<br>5<br>4<br>5 | 0<br>5<br>4<br>5 | 0<br>5<br>6<br>9 | 0<br>6<br>9<br>0 | 0<br>6<br>2<br>2 | 0<br>6<br>2<br>2 | 0<br>6<br>2<br>4 | 0<br>6<br>4<br>4 | 0<br>6<br>4<br>5 |           |                      | 0<br>6<br>5<br>6 | 0<br>6<br>5<br>8 |
| Peripheral Nerve, Sciatic                               | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | +                |                  |
| Peripheral Nerve, Tibial                                | +                | +                | +                | +                | +                | +                | +                | I                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | +                |                  |
| Spinal Cord, Cervical                                   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | +                |                  |
| Spinal Cord, Lumbar                                     | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | +                |                  |
| Spinal Cord, Thoracic                                   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | +                |                  |
| Trigeminal Ganglion                                     | M                | I                | +                | +                | +                | +                | I                | +                | I                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | +                |                  |
| <b>RESPIRATORY SYSTEM</b>                               |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |                  |
| Lung  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | +                |                  |
| Carcinoma, Metastatic, Thyroid Gland                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |                  |
| Nose  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | +                |                  |
| Trachea   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | A                | +                | +                | +                | A                | +                | +                | +                | A                | +         | +                    | +                |                  |
| <b>SPECIAL SENSES SYSTEM</b>                            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |                  |
| Eye   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | A                | +                | +                | +                | A                | +                | A                | +                | +                | +         | +                    | +                |                  |
| Harderian Gland   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | +                |                  |
| Zymbal's Gland  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |                  |
| Squamous Cell Papilloma                                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |                  |
| <b>URINARY SYSTEM</b>                                   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |                  |
| Kidney  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | A                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | +                |                  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: GSM

Time Report Requested: 11:58:55

Route: Whole Body Exposure

CAS Number: CELLPRADGSM

First Dose M/F: 09/16/12 / 09/16/12

Species/Strain: RATS/HSD

Lab: IIT

| DAY ON TEST   | ANIMAL ID             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | females<br>(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
|   | 0<br>2<br>8<br>3      | 0<br>2<br>9<br>0      | 0<br>2<br>9<br>0      | 0<br>3<br>0<br>0      | 0<br>3<br>7<br>3      | 0<br>4<br>4<br>8      | 0<br>4<br>8<br>9      | 0<br>4<br>8<br>9      | 0<br>5<br>1<br>4      | 0<br>5<br>4<br>5      | 0<br>5<br>4<br>5      | 0<br>5<br>4<br>5      | 0<br>5<br>6<br>3      | 0<br>5<br>9<br>4      | 0<br>6<br>0<br>0      | 0<br>6<br>2<br>2      | 0<br>6<br>4<br>4      | 0<br>6<br>4<br>1      | 0<br>6<br>4<br>5      | 0<br>6<br>5<br>1      | 0<br>6<br>5<br>6      | 0<br>6<br>5<br>8      | 0<br>6<br>6<br>9      |                       |                      |
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>6.0W/kg(GSM)chr | 0<br>1<br>2<br>6<br>8 | 0<br>1<br>2<br>5<br>6 | 0<br>1<br>2<br>8<br>0 | 0<br>1<br>2<br>3<br>5 | 0<br>1<br>2<br>8<br>4 | 0<br>1<br>2<br>3<br>4 | 0<br>1<br>2<br>3<br>0 | 0<br>1<br>2<br>3<br>0 | 0<br>1<br>2<br>3<br>8 | 0<br>1<br>2<br>3<br>7 | 0<br>1<br>2<br>3<br>8 | 0<br>1<br>2<br>3<br>2 | 0<br>1<br>2<br>3<br>4 | 0<br>1<br>2<br>3<br>8 | 0<br>1<br>2<br>3<br>9 | 0<br>1<br>2<br>4<br>3 | 0<br>1<br>2<br>6<br>5 | 0<br>1<br>2<br>0<br>3 | 0<br>1<br>2<br>3<br>8 | 0<br>1<br>2<br>7<br>5 | 0<br>1<br>2<br>1<br>7 | 0<br>1<br>2<br>4<br>0 | 0<br>1<br>2<br>7<br>1 | 0<br>1<br>2<br>4<br>0 |                      |

Renal Tubule, Adenoma, Multiple  
Renal Tubule, Carcinoma, Multiple

X  
X

Urinary Bladder

+ + + + + + + + + + + + + + A + A + M + + + + +

SYSTEMIC LESIONS

Multiple Organ  
Histiocytic Sarcoma  
Lymphoma Malignant

+  
X  
X X X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>6.0W/kg(GSM)chr</b> | DAY ON TEST | 0669 | 0667 | 0687 | 0697 | 0702 | 0720 | 0727 | 0737 | 0747 | 0757 | 0767 | 0777 | 0787 | 0797 | 0708 | 0718 | 0728 | 0738 | 0748 | 0758 | 0768 | 0778 | 0788 | 0798 | females<br>(cont...) |
|  | ANIMAL ID   | 0131 | 0113 | 0122 | 0133 | 0142 | 0159 | 0164 | 0173 | 0185 | 0197 | 0201 | 0212 | 0222 | 0233 | 0242 | 0253 | 0264 | 0276 | 0287 | 0299 | 0304 | 0315 | 0326 | 0337 |                      |

ALIMENTARY SYSTEM

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum    | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum    | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum  | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |
| Mesentery                 |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas                  | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular        | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

CARDIOVASCULAR SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically



Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>6.0W/kg(GSM)chr | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | females<br>(cont...) |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
|   | ANIMAL ID   |   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                      |
|   | 0           | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                    |
|   | 1           | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                    |
|   | 3           | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                    |
|   | 1           | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                    |
|   | 2           | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                    |

|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

ENDOCRINE SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex<br>Adenoma   | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla<br>Pheochromocytoma Benign<br>Bilateral, Pheochromocytoma Benign    | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + |
| Islets, Pancreatic<br>Adenoma<br>Carcinoma  | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland   | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland<br>Pars Distalis, Adenoma<br>Pars Distalis, Carcinoma               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thyroid Gland<br>Bilateral, C-cell, Adenoma<br>C-cell, Adenoma<br>C-cell, Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

GENERAL BODY SYSTEM

|            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

|   |             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |
|---|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>6.0W/kg(GSM)chr | DAY ON TEST | 0<br>6<br>6<br>9      | 0<br>6<br>6<br>9      | 0<br>6<br>8<br>7      | 0<br>6<br>9<br>7      | 0<br>7<br>0<br>2      | 0<br>7<br>2<br>0      | 0<br>7<br>2<br>0      | 0<br>7<br>2<br>0      | 0<br>7<br>2<br>0      | 0<br>7<br>3<br>7      | 0<br>7<br>3<br>7      | 0<br>7<br>3<br>7      | 0<br>7<br>3<br>7      | 0<br>7<br>3<br>8      | 0<br>7<br>3<br>8      | 0<br>7<br>3<br>8      | 0<br>7<br>3<br>8      | 0<br>7<br>3<br>8      | 0<br>7<br>3<br>8      | 0<br>7<br>3<br>8      | 0<br>7<br>3<br>9      |                       |                       |  |
|   | ANIMAL ID   | 0<br>1<br>3<br>1<br>2 | 0<br>1<br>3<br>2<br>7 | 0<br>1<br>2<br>4<br>9 | 0<br>1<br>3<br>2<br>9 | 0<br>1<br>2<br>9<br>1 | 0<br>1<br>3<br>4<br>5 | 0<br>1<br>3<br>3<br>9 | 0<br>1<br>2<br>5<br>3 | 0<br>1<br>2<br>7<br>1 | 0<br>1<br>2<br>8<br>2 | 0<br>1<br>2<br>8<br>7 | 0<br>1<br>2<br>8<br>1 | 0<br>1<br>2<br>9<br>3 | 0<br>1<br>2<br>2<br>8 | 0<br>1<br>2<br>2<br>5 | 0<br>1<br>2<br>2<br>1 | 0<br>1<br>2<br>2<br>4 | 0<br>1<br>2<br>2<br>0 | 0<br>1<br>3<br>0<br>4 | 0<br>1<br>3<br>0<br>5 | 0<br>1<br>3<br>2<br>6 | 0<br>1<br>3<br>3<br>1 | 0<br>1<br>4<br>3<br>7 |  |
|   |             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | females<br>(cont...)  |  |

GENITAL SYSTEM

Clitoral Gland  
Squamous Cell Carcinoma

+ + + + + + M + + + + + + + + + + + + + + + + + + +

Ovary  
Tubulostromal Carcinoma  
Bilateral, Rete Ovarii, Adenoma

+ + + + + + + + + + + + + + + + + X + + + + + + + +  
X

Uterus  
Adenocarcinoma  
Adenoma  
Polyp Stromal  
Polyp Stromal, Multiple  
Cervix, Malignant Mixed Mullerian Tumor  
Cervix, Schwannoma Malignant

+  
X X X X X X X X X X X  
X

Vagina

+

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

Lymph Node

+ + + + + + + + + + + + + + + +

Lymph Node, Mandibular

+ +

Lymph Node, Mesenteric

+ +

Spleen  
Hemangiosarcoma

+ +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                    |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------------|---|---|
| <p style="text-align: right;">DAY ON TEST</p> <p><b>HARLAN SPRAGUE DAWLEY RATS</b><br/><b>FEMALE</b><br/><b>6.0W/kg(GSM)chr</b></p> <p style="text-align: center;">ANIMAL ID</p> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                                  | 0 | 0 |
|  | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7                                  | 7 | 7 |
|  | 6 | 6 | 8 | 9 | 0 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3                                  | 3 | 3 |
|  | 9 | 9 | 7 | 7 | 2 | 0 | 0 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7                                  | 7 | 7 |
|  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                                  | 0 | 0 |
|  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                                  | 1 | 1 |
|  | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3                                  | 3 | 2 |
|  | 1 | 2 | 4 | 2 | 2 | 9 | 4 | 3 | 5 | 7 | 8 | 8 | 9 | 2 | 3 | 4 | 6 | 7 | 9 | 0 | 0 | 2 | 3 | 4                                  | 4 | 2 |
|  | 2 | 7 | 9 | 9 | 1 | 5 | 0 | 9 | 3 | 1 | 2 | 7 | 1 | 3 | 8 | 5 | 1 | 2 | 4 | 0 | 4 | 5 | 6 | 1                                  | 7 | 7 |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>females</b><br><b>(cont...)</b> |   |   |

Thymus +

**INTEGUMENTARY SYSTEM**

Mammary Gland +  
 Adenocarcinoma  
 Adenoma X  
 Fibroadenoma X X X  
 Fibroadenoma, Multiple X  
 Myoepithelioma  
 Skin +  
 Keratoacanthoma X  
 Squamous Cell Carcinoma  
 Subcutaneous Tissue, Fibroma  
 Subcutaneous Tissue, Fibrosarcoma X

**MUSCULOSKELETAL SYSTEM**

Bone +  
 Skeletal Muscle +

**NERVOUS SYSTEM**

Brain +  
 Carcinoma, Metastatic, Pituitary Gland  
 Glioma Malignant  
 Meninges, Granular Cell Tumor Malignant X  
 Nerve Trigeminal +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>6.0W/kg(GSM)chr | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |      |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|
|   | 0669        | 0669 | 0687 | 0697 | 0702 | 0720 | 0722 | 0727 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 |           |                      | 0733 |
| Peripheral Nerve, Sciatic                               | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    |
| Peripheral Nerve, Tibial                                | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    |
| Spinal Cord, Cervical                                   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    |
| Spinal Cord, Lumbar                                     | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    |
| Spinal Cord, Thoracic                                   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    |
| Trigeminal Ganglion                                     | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | M    | +    | M    | +    | +    | +    | +    | +    | +    | +    | +         | M                    | +    |
| <b>RESPIRATORY SYSTEM</b>                               |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |
| Lung  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    |
| Carcinoma, Metastatic, Thyroid Gland                    |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X         |                      |      |
| Nose  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    |
| Trachea   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    |
| <b>SPECIAL SENSES SYSTEM</b>                            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |
| Eye   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    |
| Harderian Gland   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    |
| Zymbal's Gland  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |
| Squamous Cell Papilloma                                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           | +                    | X    |
| <b>URINARY SYSTEM</b>                                   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |
| Kidney  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

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Route: Whole Body Exposure

Species/Strain: RATS/HSD

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Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                                    |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------------------------------------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>6.0W/kg(GSM)chr</b> | DAY ON TEST | 0669 | 0667 | 0687 | 0697 | 0702 | 0720 | 0722 | 0722 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0738 | 0739 | <b>females</b><br><b>(cont...)</b> |
|  | ANIMAL ID   | 0131 | 0133 | 0132 | 0134 | 0133 | 0132 | 0133 | 0133 | 0132 | 0132 | 0132 | 0133 | 0132 | 0132 | 0134 | 0136 | 0136 | 0137 | 0137 | 0139 | 0130 | 0134 | 0135 | 0136 | 0137 |                                    |
|  |             | 0131 | 0133 | 0132 | 0134 | 0133 | 0132 | 0133 | 0133 | 0132 | 0132 | 0132 | 0133 | 0132 | 0132 | 0134 | 0136 | 0136 | 0137 | 0137 | 0139 | 0130 | 0134 | 0135 | 0136 | 0137 |                                    |
|  |             | 0131 | 0133 | 0132 | 0134 | 0133 | 0132 | 0133 | 0133 | 0132 | 0132 | 0132 | 0133 | 0132 | 0132 | 0134 | 0136 | 0136 | 0137 | 0137 | 0139 | 0130 | 0134 | 0135 | 0136 | 0137 |                                    |

Renal Tubule, Adenoma, Multiple  
 Renal Tubule, Carcinoma, Multiple

Urinary Bladder

+ +

**SYSTEMIC LESIONS**

Multiple Organ  
 Histiocytic Sarcoma  
 Lymphoma Malignant

+  
 X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

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Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                       |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS FEMALE |  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 6.0W/kg(GSM)chr                   |  | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID                         |  | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|                                   |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                   |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|                                   |  | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |
|                                   |  | 4 | 5 | 6 | 7 | 9 | 9 | 0 | 1 | 3 | 5 | 5 | 5 | 6 | 7 | 8 | 0 | 0 | 2 | 3 | 4 | 4 | 5 | 5 | 7 | 0 |
|                                   |  | 8 | 1 | 7 | 8 | 2 | 6 | 6 | 6 | 8 | 0 | 4 | 7 | 4 | 2 | 3 | 7 | 9 | 0 | 7 | 0 | 4 | 4 | 9 | 1 | 1 |

females (cont...)

ALIMENTARY SYSTEM

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma    |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesentery                 |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

CARDIOVASCULAR SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>6.0W/kg(GSM)chr | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | females<br>(cont...) |  |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|--|
|   |             | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |           |                      |  |
|   |             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |           |                      |  |
|   |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9         |                      |  |
|   |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         |                      |  |
|   |             | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1         |                      |  |
|   |             | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3         |                      |  |
|   |             | 4 | 5 | 6 | 7 | 9 | 9 | 0 | 1 | 3 | 5 | 5 | 5 | 6 | 7 | 8 | 0 | 0 | 2 | 3 | 4 | 4 | 5 | 5 | 7 | 7 | 0 |           |                      |  |
|   |             | 8 | 1 | 7 | 8 | 2 | 6 | 6 | 6 | 8 | 0 | 4 | 7 | 4 | 2 | 3 | 7 | 9 | 0 | 7 | 0 | 4 | 2 | 9 | 7 | 1 | 1 |           |                      |  |

|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

ENDOCRINE SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex<br>Adenoma   | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla<br>Pheochromocytoma Benign<br>Bilateral, Pheochromocytoma Benign    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + |
| Islets, Pancreatic<br>Adenoma<br>Carcinoma  | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |
| Parathyroid Gland   | M | + | + | + | + | M | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + |
| Pituitary Gland<br>Pars Distalis, Adenoma<br>Pars Distalis, Carcinoma               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thyroid Gland<br>Bilateral, C-cell, Adenoma<br>C-cell, Adenoma<br>C-cell, Carcinoma | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   |   |   | X | X |   |   |   |   |   | X | X | X |   |   |   |   |   |   | X | X |   |   |   |   |   |   |

GENERAL BODY SYSTEM

|            |  |  |  |  |  |  |   |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------|--|--|--|--|--|--|---|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS |  |  |  |  |  |  | + |  |  |  |  |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------|--|--|--|--|--|--|---|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue  
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First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>6.0W/kg(GSM)chr | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | females<br>(cont...) |   |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                      | 0 |
|   | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                      | 7 |
|   | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4                    |   |
|   | 9           | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1                    |   |
| ANIMAL ID   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                    |   |
|   | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                    |   |
|   | 2           | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2                    |   |
|   | 4           | 5 | 6 | 7 | 9 | 9 | 0 | 1 | 3 | 5 | 5 | 6 | 7 | 8 | 0 | 2 | 3 | 4 | 4 | 5 | 5                    |   |
|   | 8           | 1 | 7 | 8 | 2 | 6 | 6 | 6 | 8 | 0 | 4 | 7 | 4 | 2 | 3 | 7 | 9 | 0 | 7 | 0 | 1                    |   |

Thymus + + + + + + + + + + + + I + + + + + + + + + + + + + + + +

INTEGUMENTARY SYSTEM

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma                    |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Adenoma                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fibroadenoma                      | X |   |   | X | X |   |   | X | X |   | X | X |   |   |   |   | X | X |   |   |   | X |
| Fibroadenoma, Multiple            |   |   | X |   |   | X |   | X |   |   | X | X |   |   |   | X |   |   |   |   | X |   |
| Myoepithelioma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Skin                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Keratoacanthoma                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma           |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Fibroma      |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | X |
| Subcutaneous Tissue, Fibrosarcoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

MUSCULOSKELETAL SYSTEM

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

NERVOUS SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Pituitary Gland  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Glioma Malignant                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Meninges, Granular Cell Tumor Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nerve Trigeminal                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically



Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE</b><br><br><b>6.0W/kg(GSM)chr</b> | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|  |             | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|  |             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|  | 9           | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |
| ANIMAL ID  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|  | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |
|  | 2           | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |   |
|  | 4           | 5 | 6 | 7 | 9 | 9 | 0 | 1 | 3 | 5 | 5 | 5 | 6 | 7 | 8 | 0 | 0 | 2 | 3 | 4 | 4 | 5 | 5 | 7 | 0 | 1 |   |   |
|  | 8           | 1 | 7 | 8 | 2 | 6 | 6 | 6 | 8 | 0 | 4 | 7 | 4 | 2 | 3 | 7 | 9 | 0 | 7 | 0 | 4 | 2 | 9 | 7 | 1 | 1 |   |   |

females  
(cont...)

Renal Tubule, Adenoma, Multiple  
Renal Tubule, Carcinoma, Multiple

Urinary Bladder

+ +

SYSTEMIC LESIONS

Multiple Organ  
Histiocytic Sarcoma  
Lymphoma Malignant

+ +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                              |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS FEMALE</b> |                        | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|  | <b>6.0W/kg(GSM)chr</b> | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|  |                        | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| ANIMAL ID                                |                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |                        | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  |                        | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 |
|  |                        | 1 | 1 | 1 | 1 | 2 | 5 | 5 | 7 | 7 | 8 | 8 | 9 | 9 | 3 | 3 | 6 |
|  |                        | 0 | 1 | 9 | 2 | 5 | 8 | 3 | 6 | 1 | 8 | 4 | 7 | 8 | 2 | 6 | 6 |
| <b>* TOTALS</b>                          |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ALIMENTARY SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 84 |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 85 |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 83 |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 84 |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Hepatocellular Adenoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  |
| Mesentery                 |   |   |   |   | + | + |   |   |   |   |   |   |   |   |   |   | 5  |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 87 |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Schwannoma Malignant      |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 1  |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Stomach, Glandular        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |

**CARDIOVASCULAR SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>6.0W/kg(GSM)chr | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               | ANIMAL ID |  |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|-----------|--|
|   |             | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7               |           |  |
|   |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4               |           |  |
|   |             | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5               |           |  |
|   |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               |           |  |
|   |             | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1               |           |  |
|   |             | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2               |           |  |
|   |             | 1 | 1 | 1 | 1 | 2 | 5 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | 3 | 6               |           |  |
|   |             | 0 | 1 | 9 | 2 | 5 | 8 | 3 | 6 | 1 | 8 | 4 | 7 | 8 | 2 | 6               |           |  |
|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |           |  |

|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |           |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------|
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  | <b>90</b> |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  | <b>90</b> |

**ENDOCRINE SYSTEM**

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |           |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------|
| Adrenal Cortex                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  | <b>90</b> |
| Adenoma                            |   |   |   |   |   | X |   |   |   | X |   |   |   |   |   |  | <b>5</b>  |
| Adrenal Medulla                    | + | + | I | + | + | + | M | + | + | + | + | + | + | + | + |  | <b>86</b> |
| Pheochromocytoma Benign            |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |  | <b>1</b>  |
| Bilateral, Pheochromocytoma Benign |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | <b>1</b>  |
| Islets, Pancreatic                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  | <b>87</b> |
| Adenoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | <b>4</b>  |
| Carcinoma                          |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |  | <b>4</b>  |
| Parathyroid Gland                  | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + |  | <b>79</b> |
| Pituitary Gland                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  | <b>90</b> |
| Pars Distalis, Adenoma             |   |   | X | X | X |   |   |   |   |   | X | X |   | X | X |  | <b>32</b> |
| Pars Distalis, Carcinoma           | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | <b>1</b>  |
| Thyroid Gland                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  | <b>88</b> |
| Bilateral, C-cell, Adenoma         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | <b>1</b>  |
| C-cell, Adenoma                    | X |   |   |   |   |   |   | X |   |   |   |   |   |   |   |  | <b>12</b> |
| C-cell, Carcinoma                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | <b>1</b>  |

**GENERAL BODY SYSTEM**

|            |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |           |
|------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|-----------|
| Tissue NOS | + |  |  |  |  |  |  |  |  |  |  |  |  |  | + |  | <b>10</b> |
|------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|-----------|

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                       | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                   | 7               | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| <b>HARLAN SPRAGUE DAWLEY RATS</b> | 4               | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| <b>FEMALE</b>                     | 1               | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| <b>6.0W/kg(GSM)chr</b>            | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <b>ANIMAL ID</b>                  | 1               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|                                   | 3               | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 |
|                                   | 1               | 1 | 1 | 1 | 5 | 5 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | 3 | 6 | 6 |
|                                   | 0               | 1 | 9 | 2 | 5 | 8 | 3 | 6 | 1 | 8 | 4 | 7 | 8 | 2 | 6 | 6 |
|                                   | <b>* TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**GENITAL SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Clitoral Gland                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>87</b> |
| Squamous Cell Carcinoma                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Ovary                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Tubulostromal Carcinoma                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Bilateral, Rete Ovarii, Adenoma         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Uterus                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Adenocarcinoma                          |   |   | X |   |   |   |   |   |   |   |   |   | X |   |   |   | <b>5</b>  |
| Adenoma                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Polyp Stromal                           |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>16</b> |
| Polyp Stromal, Multiple                 |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   | <b>1</b>  |
| Cervix, Malignant Mixed Mullerian Tumor |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | <b>1</b>  |
| Cervix, Schwannoma Malignant            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Vagina                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

**HEMATOPOIETIC SYSTEM**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Bone Marrow            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Lymph Node             |   |   | + |   |   |   |   |   |   |   |   |   |   | + |   |   | <b>14</b> |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Spleen                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Hemangiosarcoma        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                              | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | 7               | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| <b>HARLAN SPRAGUE DAWLEY RATS FEMALE</b> | 4               | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| <b>6.0W/kg(GSM)chr</b>                   | 1               | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| ANIMAL ID                                | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | 1               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  | 3               | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 |
|  | 1               | 1 | 1 | 1 | 5 | 5 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | 3 | 6 | 6 |
|  | 0               | 1 | 9 | 2 | 5 | 8 | 3 | 6 | 1 | 8 | 4 | 7 | 8 | 2 | 6 | 6 |
|  | <b>* TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | <b>86</b> |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|

**INTEGUMENTARY SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Mammary Gland                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Adenocarcinoma                    |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | <b>6</b>  |
| Adenoma                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>  |
| Fibroadenoma                      |   |   | X |   | X |   | X |   |   |   |   | X |   |   |   | <b>32</b> |
| Fibroadenoma, Multiple            |   | X |   |   |   | X |   |   | X |   |   |   |   | X | X | <b>30</b> |
| Myoepithelioma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Skin                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Keratoacanthoma                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Squamous Cell Carcinoma           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Subcutaneous Tissue, Fibroma      |   |   |   |   |   |   |   |   |   | X |   |   |   | X |   | <b>4</b>  |
| Subcutaneous Tissue, Fibrosarcoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

**MUSCULOSKELETAL SYSTEM**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Bone            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |

**NERVOUS SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Brain                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |
| Carcinoma, Metastatic, Pituitary Gland  | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Glioma Malignant                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Meninges, Granular Cell Tumor Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Nerve Trigeminal                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>90</b> |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>6.0W/kg(GSM)chr | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
|   | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>5      |          |
| ANIMAL ID   | 0<br>1<br>3<br>1<br>0 | 0<br>1<br>3<br>1<br>1 | 0<br>1<br>3<br>1<br>9 | 0<br>1<br>3<br>1<br>2 | 0<br>1<br>2<br>5<br>5 | 0<br>1<br>2<br>7<br>8 | 0<br>1<br>2<br>7<br>3 | 0<br>1<br>2<br>7<br>6 | 0<br>1<br>2<br>8<br>1 | 0<br>1<br>2<br>8<br>8 | 0<br>1<br>2<br>9<br>4 | 0<br>1<br>2<br>9<br>7 | 0<br>1<br>3<br>9<br>8 | 0<br>1<br>3<br>9<br>2 | 0<br>1<br>2<br>6<br>6 |          |
| Peripheral Nerve, Sciatic                               | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Peripheral Nerve, Tibial                                | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 89                    |          |
| Spinal Cord, Cervical                                   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Spinal Cord, Lumbar                                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Spinal Cord, Thoracic                                   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Trigeminal Ganglion                                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | M                     | +                     | +                     | +                     | M                     | +                     | 79                    |          |
| <b>RESPIRATORY SYSTEM</b>                               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Lung  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Carcinoma, Metastatic, Thyroid Gland                    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Nose  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Trachea   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 87                    |          |
| <b>SPECIAL SENSES SYSTEM</b>                            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Eye   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 87                    |          |
| Harderian Gland   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 90                    |          |
| Zymbal's Gland  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Squamous Cell Papilloma                                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| <b>URINARY SYSTEM</b>                                   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Kidney  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 89                    |          |

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+ .. Tissue examined microscopically  
X .. Lesion present  
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Date Report Requested: 01/02/2018

Time Report Requested: 11:58:55

First Dose M/F: 09/16/12 / 09/16/12

Lab: IIT

| DAY ON TEST                                  |           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |
|--|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE</b> |           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |           |
|  |           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |           |
|  |           | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |           |
| <b>6.0W/kg(GSM)chr</b>                       | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |
|  |           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |           |
|  |           | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 |           |
|  |           | 1 | 1 | 1 | 2 | 5 | 5 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | 3 | 6 |           |
|  | 0         | 1 | 9 | 2 | 5 | 8 | 3 | 6 | 1 | 8 | 4 | 7 | 8 | 2 | 6 |   |           |
| <b>* TOTALS</b>                              |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Renal Tubule, Adenoma, Multiple              |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Renal Tubule, Carcinoma, Multiple            |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Urinary Bladder                              |           | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   | <b>87</b> |
| <b>SYSTEMIC LESIONS</b>                      |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Multiple Organ                               |           | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   | <b>90</b> |
| Histiocytic Sarcoma                          |           |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   | <b>1</b>  |
| Lymphoma Malignant                           |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>5</b>  |

\*\*\* END OF REPORT \*\*\*

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