

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

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

NTP Study Number:

C20105B

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		
01	14	09	04	09	09	01	01	02	04	05	05	06	06	06	06	07	09	07	08	08	08	08	09	09	09	00
02	08	04	00	06	08	00	00	07	01	02	05	02	03	05	07	09	07	00	00	02	04	00	05	05	00	00
00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
05	05	05	05	06	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	06	06
07	08	00	01	00	01	03	09	01	01	02	09	08	02	02	04	09	07	01	04	05	08	00	06	00	00	02
03	09	04	02	01	09	06	04	03	04	01	09	03	00	07	03	08	01	02	09	08	03	00	00	00	00	00

Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spleen Hemangiosarcoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

INTEGUMENTARY SYSTEM

Mammary Gland Fibroadenoma	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skin Basal Cell Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skin Keratoacanthoma																										
Skin Squamous Cell Papilloma																										
Skin Sebaceous Gland, Adenoma																										
Skin Subcutaneous Tissue, Fibroma																										
Skin Subcutaneous Tissue, Fibrosarcoma																										
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
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BLANK .. Not examined microscopically

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CAS Number: CELLPRADCDMA

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Time Report Requested: 13:31:21

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

Lab: IIT

HARLAN SPRAGUE DAWLEY RATS MALE 0.0W/kg(CDMA)chr	DAY ON TEST																								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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0054	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0005	
	5	5	5	5	5	5	6	5	5	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4739	
	5	1	9	5	4	8	0	5	7	6	0	0	9	1	0	8	1	9	2	5	6	1	4	7	5195	

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

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Lab: IIT

HARLAN SPRAGUE DAWLEY RATS MALE 0.0W/kg(CDMA)chr	DAY ON TEST																								ANIMAL ID	males (cont...)	
	0604	0604	0601	0601	0602	0602	0602	0603	0604	0604	0604	0605	0605	0607	0608	0609	0609	0602	0602	0602	0603	0603	0606	0607			0607
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0055	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0055	
	4	4	0	6	4	4	9	0	1	2	5	8	4	5	7	8	9	2	2	2	3	3	6	7	7	475	
	5	1	9	5	4	0	5	6	7	6	0	0	9	5	6	1	9	2	5	6	1	3	0	7	7	519	

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

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	13
Adenoma, Multiple															5
Carcinoma															1
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	90
Sublingual Gland, Schwannoma Malignant, Metastatic, Uncertain Primary Site															1
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	90
Squamous Cell Papilloma															1

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Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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			
HARLAN SPRAGUE DAWLEY RATS	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3			
MALE	2	2	2	2	2	3	3	3	3	3	4	4	4	4	4	4	4			
0.0W/kg(CDMA)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	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	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					* TOTALS
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			86
CARDIOVASCULAR SYSTEM																				
Aorta	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			90
Blood Vessel																				1
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			90
ENDOCRINE SYSTEM																				
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			90
Adenoma																				1
Adrenal Medulla	+	+	I	M	+	+	+	+	+	+	+	+	+	+	+	+	+			88
Pheochromocytoma Benign					X								X							8
Pheochromocytoma Benign, Multiple																				1
Pheochromocytoma Complex																				1
Pheochromocytoma Malignant																				1
Bilateral, Pheochromocytoma Benign	X																			1
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			90
Adenoma								X												5
Carcinoma													X							8
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			83
Adenoma																				1
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			89
Pars Distalis, Adenoma				X			X	X												17

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HARLAN SPRAGUE DAWLEY RATS MALE 0.0W/kg(CDMA)chr	DAY ON TEST															* TOTALS
	0 7 3 2	0 7 3 2	0 7 3 2	0 7 3 2	0 7 3 2	0 7 3 3	0 7 3 3	0 7 3 3	0 7 3 3	0 7 3 3	0 7 3 3	0 7 3 4	0 7 3 4	0 7 3 4	0 7 3 4	
ANIMAL ID	0 0 5 0 2	0 0 5 4 7	0 0 5 5 0	0 0 5 6 4	0 0 5 7 5	0 0 5 1 8	0 0 5 2 3	0 0 5 3 5	0 0 5 6 2	0 0 5 9 6	0 0 5 2 4	0 0 5 4 0	0 0 5 4 4	0 0 5 4 1	0 0 5 9 3	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	89	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	90	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	90	
Hemangiosarcoma															3	
Thymus	+	+	+	+	+	I	+	+	+	+	+	+	+	+	88	
INTEGUMENTARY SYSTEM																
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	
MUSCULOSKELETAL SYSTEM																
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	90	
Skeletal Muscle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	90	
NERVOUS SYSTEM																

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	0 7 3 2	0 7 3 2	0 7 3 2	0 7 3 2	0 7 3 2	0 7 3 3	0 7 3 3	0 7 3 3	0 7 3 3	0 7 3 3	0 7 3 3	0 7 3 4	0 7 3 4	0 7 3 4	0 7 3 4	
ANIMAL ID	0 0 5 0 2	0 0 5 4 7	0 0 5 5 0	0 0 5 6 4	0 0 5 7 5	0 0 5 1 8	0 0 5 2 3	0 0 5 3 5	0 0 5 6 2	0 0 5 9 6	0 0 5 2 4	0 0 5 4 0	0 0 5 4 4	0 0 5 4 1	0 0 5 9 3	

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
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	90

SPECIAL SENSES SYSTEM

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

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DAY ON TEST		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
		3	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	4
	0.0W/kg(CDMA)chr																
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
* TOTALS																	

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
I .. Insufficient tissue

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

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

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

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

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Benign, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bilateral, Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

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

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | X | | | | | | | | | | | |
| Meninges, Granular Cell Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trigeminal Ganglion | + | + | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. 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 - 56

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:31:21

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

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

Species/Strain: RATS/HSD

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1.5W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|--------------------|
| | 0655 | 0662 | 0663 | 0666 | 0674 | 0686 | 0693 | 0699 | 0703 | 0704 | 0705 | 0707 | 0711 | 0714 | 0715 | 0717 | 0717 | 0717 | 0717 | 0717 | 0719 | 0722 | 0723 | 0733 | | |
| | 01398 | 01133 | 01144 | 01133 | 01133 | 01133 | 01133 | 01134 | 01134 | 01134 | 01134 | 01134 | 01134 | 01134 | 01134 | 01134 | 01134 | 01134 | 01134 | 01134 | 01134 | 01134 | 01134 | 01134 | 01134 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | A | A | A | A | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | A | + | A | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | A | A | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | A | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | A | A | + | A | A | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum
Adenocarcinoma | A | + | + | + | A | + | A | A | + | A | + | + | A | A | + | A | + | A | + | + | + | + | + | + | + |
| Liver
Hepatocellular Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas
Adenoma | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Malignant, Metastatic,
Adrenal Medulla | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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
MALE
1.5W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
| | 0
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3 | 0
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9 | 0
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5 | 0
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8 | 0
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5
9 | 0
1
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2 | 0
1
4
8
4 | 0
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4
2
7 | 0
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6 | 0
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8
7 | 0
1
3
5
6 | 0
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1 | 0
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7 | 0
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4 | 0
1
3
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4 | 0
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3
6
4 | 0
1
3
6
7 | |

Stomach, Forestomach +

Stomach, Glandular + + + + A + A A + + + + + + + + A + + + + + + + + +

CARDIOVASCULAR SYSTEM

Aorta +

Blood Vessel

Heart +
 Endocardium, Schwannoma Malignant
 Myocardium, Schwannoma Malignant

ENDOCRINE SYSTEM

Adrenal Cortex +
 Adenoma X
 Carcinoma X

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

Islets, Pancreatic + + + + + + M A +
 Adenoma X
 Carcinoma X

Parathyroid Gland + + M + + M +
 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 - 56
 Test Type: CHRONIC
 Route: Whole Body Exposure
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA
 CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018
 Time Report Requested: 13:31:21
 First Dose M/F: 09/16/12 / 09/16/12
 Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | |
|------------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|------|
| | 0655 | 0662 | 0663 | 0666 | 0674 | 0686 | 0699 | 0699 | 0699 | 0699 | 0699 | 0700 | 0704 | 0705 | 0705 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | | | 0707 |
| 1.5W/kg(CDMA)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 | 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 |
| | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 4 | 4 | 3 | 4 | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 3 | 3 | 3 | 3 |
| | 9 | 3 | 3 | 8 | 7 | 8 | 6 | 2 | 5 | 0 | 8 | 2 | 1 | 8 | 3 | 5 | 7 | 9 | 4 | 4 | 4 | 3 | 8 | 4 | 6 | 6 | 6 | 9 |
| | 8 | 9 | 5 | 0 | 6 | 9 | 5 | 8 | 9 | 2 | 4 | 7 | 6 | 7 | 6 | 1 | 7 | 4 | 4 | 3 | 0 | 6 | 4 | 4 | 7 | 9 | 9 | 9 |

Alveolar/Bronchiolar Adenoma

Nose
 Schwannoma Malignant, Metastatic, Uncertain Primary Site

Trachea

SPECIAL SENSES SYSTEM

Eye
 Schwannoma Malignant, Metastatic, Uncertain Primary Site

Harderian Gland
 Schwannoma Malignant, Metastatic, Tissue Nos
 Schwannoma Malignant, Metastatic, Uncertain Primary Site

Lacrimal Gland

URINARY SYSTEM

Kidney
 Lipoma
 Renal Tubule, Adenoma

Urinary Bladder

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 - 56

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:31:21

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

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

Species/Strain: RATS/HSD

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| HARLAN SPRAGUE DAWLEY RATS
MALE
1.5W/kg(CDMA)chr | DAY ON TEST | 065 | 062 | 063 | 066 | 064 | 066 | 066 | 066 | 066 | 066 | 066 | 066 | 067 | 067 | 067 | 067 | 067 | 067 | 067 | 067 | 067 | 067 | 067 | 067 | 067 | 067 | |
| | ANIMAL ID | 0139 | 0143 | 0144 | 0113 | 0113 | 0113 | 0113 | 0113 | 0113 | 0113 | 0113 | 0113 | 0113 | 0113 | 0113 | 0113 | 0113 | 0113 | 0113 | 0113 | 0113 | 0113 | 0113 | 0113 | 0113 | 0113 | |
| | | 8 | 9 | 5 | 0 | 6 | 9 | 5 | 8 | 9 | 2 | 4 | 7 | 6 | 7 | 6 | 1 | 7 | 4 | 4 | 3 | 0 | 6 | 4 | 4 | 7 | 9 | |
| | | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Leukemia Mononuclear
Lymphoma Malignant
Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |

males (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

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

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum
Adenocarcinoma | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver
Hepatocellular Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery | | | | | | + | | | | | | | | | | | + | | + | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas
Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Malignant, Metastatic,
Adrenal Medulla | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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
MALE
1.5W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|
| | 0
7
3
0 | 0
7
3
0 | 0
7
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0 | 0
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0 | 0
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0 | 0
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0 | 0
7
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
1
4
5 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1
4
2
5 | | |

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

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | X | | | | | | | | | | | | | | | | | | | X | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | X | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pheochromocytoma Benign | | | | X | | | X | | | X | X | X | | | | | X | | | | X | | X | |
| Pheochromocytoma Benign, Multiple | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Malignant | | | | | | | | | | | X | | | | | | | | | | | | | |
| Bilateral, Pheochromocytoma Benign | | | | X | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | X | X | | | | | X | | | | | | | | | | X | |
| Carcinoma | | | X | | X | | | | | | | | | | | | | | | | | X | | |
| Parathyroid Gland | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 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 - 56

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:31:21

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

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 | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------------|
| 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 | 7 | 7 | |
| 1.5W/kg(CDMA)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 | 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 | |
| | 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 | |
| | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | |
| | 2 | 2 | 3 | 3 | 3 | 6 | 9 | 9 | 9 | 0 | 0 | 1 | 2 | 4 | 6 | 7 | 9 | 0 | 1 | 1 | 3 | 6 | 8 | 9 | 1 | 1 | 1 | 2 | |
| | 5 | 6 | 1 | 3 | 4 | 1 | 0 | 1 | 3 | 0 | 8 | 4 | 9 | 5 | 2 | 4 | 2 | 9 | 0 | 9 | 0 | 4 | 8 | 5 | 2 | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Adenoma | | X | | | X | | | X | X | | X | | X | X | | | | | | X | X | X | | X | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Bilateral, C-cell, Adenoma | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| C-cell, Adenoma | | | | | | | | | | | | | | | | | | | X | | | X | X | | | | | | |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bulbourethral Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coagulating Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Penis | | | | | | | | | | + | | | | | | | | | | | | | + | | | | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|-----------------------|-----------------------|--|
| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0
7
3
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7
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0 | 0
7
3
0 | | | |
| HARLAN SPRAGUE DAWLEY RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.5W/kg(CDMA)chr | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0
1
4
2
5 | 0
1
4
2
5 | 0
1
4
2
5 | 0
1
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4
2
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1
4
2
5 | |
| | | | | | | | | | | | | | | | | | | | | | | males (cont...) | | | |

Interstitial Cell, Adenoma

X

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

Lymph Node

+ +

Lymph Node, Mandibular

+ +

Lymph Node, Mesenteric

+ +

Spleen

+ +

Thymus

+ M + + + +

INTEGUMENTARY SYSTEM

Mammary Gland Fibroadenoma

+ + + + + + + M + + + X + M + X + + X + + + + + + +

Skin

+ +

Basal Cell Adenoma

X

Keratoacanthoma

X X

Squamous Cell Papilloma

X

Subcutaneous Tissue, Fibroma

X X

Subcutaneous Tissue, Hemangiosarcoma

X

Subcutaneous Tissue, Lipoma

X X

Subcutaneous Tissue, Myxosarcoma

X

Subcutaneous Tissue, Neural Crest Tumor

MUSCULOSKELETAL 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1.5W/kg(CDMA)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
(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 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 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 | | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | | |
| | | 2 | 2 | 3 | 3 | 3 | 6 | 9 | 9 | 9 | 0 | 0 | 1 | 2 | 4 | 6 | 7 | 9 | 0 | 1 | 1 | 1 | 3 | 6 | 8 | | |
| | | 5 | 6 | 1 | 3 | 4 | 1 | 0 | 1 | 3 | 0 | 8 | 4 | 9 | 5 | 2 | 4 | 2 | 9 | 0 | 0 | 9 | 2 | 4 | 8 | | |

Bone +

Skeletal Muscle +
Hemangioma

NERVOUS SYSTEM

Brain +

Schwannoma Malignant, Metastatic, Tissue Nos
Schwannoma Malignant, Metastatic, Uncertain Primary Site
Meninges, Granular Cell Tumor Malignant

Nerve Trigeminal +

Peripheral Nerve, Sciatic +

Peripheral Nerve, Tibial +

Spinal Cord, Cervical +

Spinal Cord, Lumbar +

Spinal Cord, Thoracic +

Trigeminal Ganglion + + M + + + + + + + + M + + + + + M M + + M + + + + +
Schwannoma Malignant, Metastatic, Tissue Nos

RESPIRATORY SYSTEM

Lung +

* .. 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1.5W/kg(CDMA)chr | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | |
|--|-------------|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|
| | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | | 0 | 7 | 0 |
| | 3 | 7 | 3 | 7 | 3 | 7 | 3 | 7 | 3 | 7 | 3 | 7 | 3 | 7 | 3 | 7 | 3 | 7 | 3 | 7 | 3 | 7 | 3 | 7 | 3 | 7 |
| | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 |

Alveolar/Bronchiolar Adenoma

X

Nose

Schwannoma Malignant, Metastatic, Uncertain
Primary Site

+ +

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye

Schwannoma Malignant, Metastatic, Uncertain
Primary Site

+ +

Harderian Gland

Schwannoma Malignant, Metastatic, Tissue
Nos

Schwannoma Malignant, Metastatic, Uncertain
Primary Site

+ +

Lacrimal Gland

+

URINARY SYSTEM

Kidney

Lipoma
Renal Tubule, Adenoma

+ +

X

X

Urinary Bladder

+ +

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

| DAY ON TEST | | 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 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 1.5W/kg(CDMA)chr | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 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 |
| | | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 3 | 3 | 3 |
| | | 1 | 1 | 2 | 2 | 4 | 5 | 5 | 7 | 7 | 0 | 0 | 1 | 6 | 7 | 9 | 9 |
| | | 5 | 7 | 1 | 3 | 6 | 2 | 7 | 3 | 5 | 3 | 7 | 1 | 6 | 2 | 6 | 6 |
| * TOTALS | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 76 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 83 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 81 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 84 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 76 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 73 |
| Adenocarcinoma | | | | | | | | | | | | | | | | | 1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | 2 |
| Mesentery | | | | + | | | | | | + | | | | | | + | 19 |
| Oral Mucosa | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| Adenoma | | X | X | | | | | | | X | | | | | | | 16 |
| Adenoma, Multiple | | | | | | | | X | | | | X | | | | | 6 |
| Carcinoma | | | | | | | | | | | | | | | | | 1 |
| Pheochromocytoma Malignant, Metastatic, Adrenal Medulla | | | | | | | | | | | | | | | | | 1 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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 | * TOTALS |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| HARLAN SPRAGUE DAWLEY RATS MALE | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| 1.5W/kg(CDMA)chr | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 7 | 7 | 7 | 7 | 7 | |
| ANIMAL ID | 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 | |
| | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | |
| | 1 | 1 | 2 | 2 | 4 | 5 | 5 | 7 | 7 | 0 | 0 | 1 | 6 | 7 | 9 | 9 | 9 | |
| | 5 | 7 | 1 | 3 | 6 | 2 | 7 | 3 | 5 | 3 | 7 | 1 | 6 | 2 | 6 | 6 | 6 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 86 |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | |
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Blood Vessel | | | | | | | | | | | | | | | | | | 2 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Endocardium, Schwannoma Malignant | | | | | | | | | | | | | | | | | | 1 |
| Myocardium, Schwannoma Malignant | | | | | | | X | | | | | | | | | | | 1 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenoma | | | | | | | | | | | | | | | | | | 3 |
| Carcinoma | | | | X | | | | | | | | | | | | | | 3 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Pheochromocytoma Benign | | | X | | | | | | X | X | | X | | X | | | | 17 |
| Pheochromocytoma Benign, Multiple | | | | | | | | | | | | | | | | | | 1 |
| Pheochromocytoma Malignant | | | | | | | X | | | | | | X | | | | | 3 |
| Bilateral, Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | 1 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| Adenoma | X | | | | X | | | | | X | | | | | | X | | 11 |
| Carcinoma | | | | X | | | | | | | X | | | | | | | 6 |
| Parathyroid Gland | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 83 |
| 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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 | | | |
| HARLAN SPRAGUE DAWLEY RATS MALE | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | |
| 1.5W/kg(CDMA)chr | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 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 | | | |
| | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | | | |
| | 1 | 1 | 2 | 2 | 4 | 5 | 5 | 7 | 7 | 0 | 0 | 1 | 6 | 7 | 9 | 9 | 9 | | | |
| | 5 | 7 | 1 | 3 | 6 | 2 | 7 | 3 | 5 | 3 | 7 | 1 | 6 | 2 | 6 | 6 | 6 | | | |
| | | | | | | | | | | | | | | | | | * TOTALS | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 90 |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | | | | | 1 |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | 1 |
| Pars Distalis, Adenoma | | | | | | X | | | | | X | | X | | X | | | | | 25 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 87 |
| Bilateral, C-cell, Adenoma | | | | | | | | | | | | | | | | | | | | 2 |
| C-cell, Adenoma | | | | | X | | | | | | | | | | | | | | | 12 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | 1 |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | 1 |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | |
| Bulbourethral Gland | | | | | | | | | | | | | | | | | | | | 1 |
| Coagulating Gland | | | | | | | | | | + | | | | | | | | | | 2 |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 90 |
| Penis | | | | | | | | | | + | | | | | | | | | | 4 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 88 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 90 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 90 |
| Testis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 89 |

* .. 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| | | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| HARLAN SPRAGUE DAWLEY RATS
MALE
1.5W/kg(CDMA)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 | |
| | | 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 | 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 | |
| | | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 3 | 3 | |
| | | 1 | 1 | 2 | 2 | 4 | 5 | 5 | 7 | 7 | 0 | 0 | 1 | 6 | 7 | 9 | |
| | | 5 | 7 | 1 | 3 | 6 | 2 | 7 | 3 | 5 | 3 | 7 | 1 | 6 | 2 | 6 | |
| | | | | | | | | | | | | | | | | | * TOTALS |

Interstitial Cell, Adenoma

2

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Lymph Node | | | | + | | | | | | + | | + | | | | | 23 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 89 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Thymus | + | + | + | M | I | + | + | + | + | + | + | + | + | + | + | | 85 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 77 |
| Fibroadenoma | | | | | | | | X | | | | | | | | | 5 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Basal Cell Adenoma | | | | | | | | | | | | | | | | | 1 |
| Keratoacanthoma | | | | | | | | | | | | | | | | | 4 |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Fibroma | | | | | X | | | | | | | | X | | | | 11 |
| Subcutaneous Tissue, Hemangiosarcoma | | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Lipoma | | | | X | | | | | | | | | | | | | 5 |
| Subcutaneous Tissue, Myxosarcoma | | | | | | | | | | | | | | | | | 2 |
| Subcutaneous Tissue, Neural Crest Tumor | | | | | | | | | | | | | | | | | 1 |

MUSCULOSKELETAL 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
1.5W/kg(CDMA)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 | | |
| | | 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 | 7 | 7 | 7 | | | |
| | | 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 | | | |
| | | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 3 | | | |
| | | 1 | 1 | 2 | 2 | 4 | 5 | 5 | 7 | 7 | 0 | 0 | 1 | 6 | 7 | | | |
| | | 5 | 7 | 1 | 3 | 6 | 2 | 7 | 3 | 5 | 3 | 7 | 1 | 6 | 2 | | | |
| | | | | | | | | | | | | | | | | | * TOTALS | |

| | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------------------|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Skeletal Muscle
Hemangioma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90
1 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------------------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Schwannoma Malignant, Metastatic, Tissue
Nos | | | | | | | | | | | | | | | | | 1 |
| Schwannoma Malignant, Metastatic, Uncertain
Primary Site | | | | | | | | | | | | | | | | | 1 |
| Meninges, Granular Cell Tumor Malignant | | | | | | | | | | X | | | | | | | 1 |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Trigeminal Ganglion
Schwannoma Malignant, Metastatic, Tissue
Nos | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | | 77
1 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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 | | | |
| HARLAN SPRAGUE DAWLEY RATS
MALE | 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 | 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 | | | |
| | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | | | |
| 1 | 1 | 2 | 2 | 4 | 5 | 5 | 7 | 7 | 0 | 0 | 1 | 6 | 7 | 9 | | | | | | |
| 5 | 7 | 1 | 3 | 6 | 2 | 7 | 3 | 5 | 3 | 7 | 1 | 6 | 2 | 6 | | | | | | |
| | | | | | | | | | | | | | | | | | | | * TOTALS | |
| Alveolar/Bronchiolar Adenoma | X | | | | | | | | | | | | | | | | | | 2 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 90 | |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | 1 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 88 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 83 | |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | 1 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 90 | |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | | | | 1 | |
| Schwannoma Malignant, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | 1 | |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | 1 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 90 | |
| Lipoma | | X | | | | | | | | | | | | | | | | | 2 | |
| Renal Tubule, Adenoma | | | | | | | | | | | | | | | | | | | 1 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 83 | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 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 - 56

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:31:21

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

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

Species/Strain: RATS/HSD

Lab: IIT

| | | | | | | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| HARLAN SPRAGUE DAWLEY RATS
MALE
1.5W/kg(CDMA)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 | |
| | | 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 | 7 | 7 | 7 | |
| | | 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 | |
| | | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 3 | 3 | |
| | | 1 | 1 | 2 | 2 | 4 | 5 | 5 | 7 | 7 | 0 | 0 | 1 | 6 | 7 | 9 |
| | | 5 | 7 | 1 | 3 | 6 | 2 | 7 | 3 | 5 | 3 | 7 | 1 | 6 | 2 | 6 |
| | | | | | | | | | | | | | | | * TOTALS | |

Leukemia Mononuclear
Lymphoma Malignant
Mesothelioma Malignant

X X

2
2
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

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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Salivary Glands
Parotid Gland, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach
Squamous Cell Carcinoma | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular | A | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | A | + | + | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart
Myocardium, Schwannoma Malignant
Pericardium, Schwannoma Malignant,
Metastatic, Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla
Pheochromocytoma Benign
Pheochromocytoma Benign, Multiple
Pheochromocytoma Malignant
Bilateral, Pheochromocytoma Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic
Adenoma
Adenoma, Multiple | + | + | + | + | + | + | + | + | + | + | + | 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

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

Carcinoma

X

Parathyroid Gland

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

Adenoma

Pituitary Gland

+ +

Pars Distalis, Adenoma

X X

Pars Distalis, Adenoma, Multiple

Thyroid Gland

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

Bilateral, C-cell, Carcinoma

C-cell, Adenoma

C-cell, Carcinoma

X

GENERAL BODY SYSTEM

Tissue NOS

Mediastinum, Chemodectoma Benign

+

GENITAL SYSTEM

Coagulating Gland

+

Ductus Deferens

Leiomyoma

+

X

Epididymis

+ +

Penis

Preputial Gland

+ + M +

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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

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

Squamous Cell Papilloma
 Conjunctiva, Sarcoma
 Subcutaneous Tissue, Fibroma
 Subcutaneous Tissue, Fibroma, Multiple
 Subcutaneous Tissue, Fibrosarcoma
 Subcutaneous Tissue, Hibernoma
 Subcutaneous Tissue, Lipoma
 Subcutaneous Tissue, Myxosarcoma, Multiple

X
 X
 X

MUSCULOSKELETAL SYSTEM

Bone +
 Bone, Vertebra
 Skeletal Muscle +
 Hemangiosarcoma

NERVOUS SYSTEM

Brain +
 Meningioma Benign X
 Meninges, Granular Cell Tumor Benign
 Meninges, Granular Cell Tumor Malignant
 Nerve Trigeminal + + + + + + + + + + + + + M 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

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

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

Spinal Cord, Lumbar

+ +

Spinal Cord, Thoracic

+ +

Trigeminal Ganglion

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

RESPIRATORY SYSTEM

Lung

+ +

Alveolar/Bronchiolar Adenoma

Alveolar/Bronchiolar Carcinoma

Carcinoma, Metastatic, Thyroid Gland

Pheochromocytoma Malignant, Metastatic, Adrenal Medulla

Schwannoma Malignant, Metastatic, Thymus

X

Nose

+ +

Trachea

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

SPECIAL SENSES SYSTEM

Eye

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

Harderian Gland

+ +

Lacrimal Gland

Zymbal's Gland Adenoma

URINARY 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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 MALE | 3.0W/kg(CDMA)chr | 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 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID | | 7 | 8 | 1 | 3 | 7 | 0 | 6 | 6 | 8 | 0 | 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 |
| | | 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 |
| | | 6 | 6 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | |
| | | 5 | 1 | 0 | 3 | 3 | 5 | 2 | 5 | 1 | 6 | 6 | 7 | 8 | 8 | 9 | 0 | 2 | 4 | 4 | 5 | 7 | 7 | 8 | 8 | |
| | | 5 | 1 | 6 | 3 | 6 | 4 | 4 | 0 | 2 | 0 | 4 | 7 | 4 | 5 | 1 | 0 | 4 | 8 | 1 | 3 | 6 | 8 | 0 | 2 | |

males (cont...)

ALIMENTARY SYSTEM

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

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | |
|------------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|------|
| | 0697 | 0697 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | 0771 | | | 0771 |
| 3.0W/kg(CDMA)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 | 0116555880 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Salivary Glands
Parotid Gland, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach
Squamous Cell Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart
Myocardium, Schwannoma Malignant
Pericardium, Schwannoma Malignant,
Metastatic, Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla
Pheochromocytoma Benign
Pheochromocytoma Benign, Multiple
Pheochromocytoma Malignant
Bilateral, Pheochromocytoma Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic
Adenoma
Adenoma, Multiple | 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| | 0697 | 0698 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | 0699 | |
| | ANIMAL ID | 01655 | 01656 | 01657 | 01658 | 01659 | 01660 | 01661 | 01662 | 01663 | 01664 | 01665 | 01666 | 01667 | 01668 | 01669 | 01670 | 01671 | 01672 | 01673 | 01674 | 01675 | 01676 | 01677 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Adenoma | X | | | | | | | | | | | | | | | | | | | | | | | |
| Seminal Vesicle | + | | | | | | | | | | | | | | | | | | | | | | | |
| Testis | + | | | | | | | | | | | | | | | | | | | | | | | |
| Hemangioma | + | | | | | | | | | | | | | | | | | | | | | | | |
| Interstitial Cell, Adenoma | + | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone Marrow | + | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Malignant, Metastatic, Adrenal Medulla | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | + | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + + + + A + | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + + + + M + + + + + + + + + + + + + + + + + + M + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Mammary Gland | + | | | | | | | | | | | | | | | | | | | | | | | |
| Fibroadenoma | + M + + + + M | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | | | | | | | | | | | | | | | | | | | | | | | |
| Keratoacanthoma | X | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell 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

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0697 | 0697 | 0697 | 0697 | 0697 | 0697 | 0697 | 0697 | 0697 | 0697 | 0697 | 0697 | 0697 | 0697 | 0697 | 0697 | 0697 | 0697 | 0697 | 0697 | 0697 | 0697 | 0697 | 0697 | 0697 | | |
| | 0 | 0 | 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 | |
| | 6 | 6 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 5 | 1 | 0 | 3 | 3 | 5 | 2 | 5 | 1 | 6 | 6 | 7 | 8 | 8 | 9 | 0 | 2 | 4 | 4 | 5 | 7 | 7 | 8 | 8 | 8 | 8 | |
| | 5 | 1 | 6 | 3 | 6 | 4 | 4 | 0 | 2 | 0 | 4 | 7 | 4 | 5 | 1 | 0 | 4 | 8 | 1 | 3 | 6 | 7 | 8 | 0 | 2 | | |

Squamous Cell Papilloma

X

X

Conjunctiva, Sarcoma

Subcutaneous Tissue, Fibroma

Subcutaneous Tissue, Fibroma, Multiple

Subcutaneous Tissue, Fibrosarcoma

Subcutaneous Tissue, Hibernoma

Subcutaneous Tissue, Lipoma

X

X

X

Subcutaneous Tissue, Myxosarcoma, Multiple

MUSCULOSKELETAL SYSTEM

Bone

+ +

Bone, Vertebra

Skeletal Muscle

+ +

Hemangiosarcoma

X

NERVOUS SYSTEM

Brain

+ +

Meningioma Benign

Meninges, Granular Cell Tumor Benign

Meninges, Granular Cell Tumor Malignant

X

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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|---------------------------------|-----------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------------|
| | 06797 | 06988 | 0071137 | 0071120 | 0071226 | 0071226 | 0071228 | 0071330 | 0071333 | 0071333 | 0071333 | 0071333 | 0071333 | 0071333 | 0071333 | 0071333 | 0071333 | 0071333 | 0071333 | 0071333 | 0071333 | 0071333 | 0071333 | 0071333 | 0071333 | |
| HARLAN SPRAGUE DAWLEY RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 3.0W/kg(CDMA)chr | 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 | |
| | 6 | 6 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 5 | 1 | 0 | 3 | 3 | 5 | 2 | 5 | 1 | 6 | 6 | 7 | 8 | 8 | 9 | 0 | 2 | 4 | 4 | 5 | 7 | 7 | 7 | 8 | 8 | |
| | 5 | 1 | 6 | 3 | 6 | 4 | 4 | 0 | 2 | 0 | 4 | 7 | 4 | 5 | 1 | 0 | 0 | 8 | 1 | 3 | 6 | 8 | 0 | 2 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lipoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liposarcoma | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Bilateral, Renal Tubule, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bilateral, Renal Tubule, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | 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 | |
| HARLAN SPRAGUE DAWLEY RATS
MALE | 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 | |
| 3.0W/kg(CDMA)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 | |
| | | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 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 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 6 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | | |
| | | 1 | 2 | 3 | 4 | 5 | 5 | 6 | 7 | 8 | 8 | 9 | 1 | 3 | 4 | 5 | 5 | 7 | 7 | 0 | 1 | 3 | 4 | 4 | | |
| | | 4 | 2 | 0 | 5 | 3 | 5 | 2 | 5 | 6 | 7 | 9 | 8 | 8 | 1 | 2 | 2 | 7 | 4 | 9 | 4 | 0 | 3 | 3 | | |

ALIMENTARY SYSTEM

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

| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Salivary Glands
Parotid Gland, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach
Squamous Cell Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart
Myocardium, Schwannoma Malignant
Pericardium, Schwannoma Malignant,
Metastatic, Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla
Pheochromocytoma Benign
Pheochromocytoma Benign, Multiple
Pheochromocytoma Malignant
Bilateral, 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

| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|
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|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Carcinoma | X | | | | | | | X | X | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland Adenoma | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland Pars Distalis, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland Pars Distalis, Adenoma, Multiple | | | | | | X | X | X | | | | X | X | X | X | X | X | X | X | X | | | | | X | X | |
| Thyroid Gland Bilateral, C-cell, Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thyroid Gland C-cell, Adenoma | | | X | X | | | X | | X | | | X | | | | | | X | | X | | | | | | | |
| Thyroid Gland C-cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS Mediastinum, Chemodectoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coagulating Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ductus Deferens Leiomyoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Penis | | | + | | | + | | | | | | | | | | | | | | | | | | | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
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Adenoma

Seminal Vesicle

Testis

Hemangioma

Interstitial Cell, Adenoma

X

HEMATOPOIETIC SYSTEM

Bone Marrow

Pheochromocytoma Malignant, Metastatic,
Adrenal Medulla

Lymph Node

Lymph Node, Mandibular

Lymph Node, Mesenteric

Spleen

Thymus

Schwannoma Malignant

INTEGUMENTARY SYSTEM

Mammary Gland

Fibroadenoma

Skin

Keratoacanthoma

Squamous Cell 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
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Squamous Cell Papilloma
 Conjunctiva, Sarcoma
 Subcutaneous Tissue, Fibroma
 Subcutaneous Tissue, Fibroma, Multiple
 Subcutaneous Tissue, Fibrosarcoma
 Subcutaneous Tissue, Hibernoma
 Subcutaneous Tissue, Lipoma
 Subcutaneous Tissue, Myxosarcoma, Multiple

X
 X
 X
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 X

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Bone, Vertebra | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Meningioma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meninges, Granular Cell Tumor Benign | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meninges, Granular Cell Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trigeminal Ganglion | + | M | + | + | M | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | M | M | + | + |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar/Bronchiolar Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Malignant, Metastatic, Adrenal Medulla | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Schwannoma Malignant, Metastatic, Thymus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lacrimal Gland | | | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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 |
|--|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS
MALE | | 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 | 4 | 4 | 4 | 4 | 4 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 3.0W/kg(CDMA)chr | | | | | | | | | | | | | | | | |
| 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 |
| | | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 6 | 6 | 6 |
| | | 6 | 6 | 6 | 8 | 9 | 1 | 1 | 3 | 4 | 4 | 6 | 7 | 9 | 0 | 1 | 1 |
| | | 1 | 6 | 7 | 9 | 4 | 7 | 9 | 9 | 6 | 9 | 5 | 0 | 3 | 5 | 5 | 5 |
| * TOTALS | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 74 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 82 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 80 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 83 |
| Adenocarcinoma | | | | | | | | | | | | | | | | | 1 |
| Osteosarcoma | | | X | | | | | | | | | | | | | | 1 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 77 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 75 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Hepatocellular Adenoma | | | | | | X | | | | | | | | | X | | 4 |
| Hepatocellular Carcinoma | | | | | | X | | | | | | | | | | | 1 |
| Mesentery | | | | + | | | | | | + | + | | + | | | | 17 |
| Oral Mucosa | | | | | | | | | | | | | | | | | 1 |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 87 |
| Adenoma | X | | | | | | | | | | | X | | | X | | 19 |
| Adenoma, Multiple | | | | | | | X | | | | | | | | | | 7 |
| Carcinoma | | | | | | | | | | | | | | | | | 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| MALE | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 7 | 7 | 7 | 7 | 7 | | |
| 3.0W/kg(CDMA)chr | 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 | | |
| | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 6 | 6 | 6 | | |
| | 6 | 6 | 6 | 8 | 9 | 1 | 1 | 3 | 4 | 4 | 6 | 7 | 9 | 0 | 1 | 1 | | |
| | 1 | 6 | 7 | 9 | 4 | 7 | 9 | 9 | 6 | 9 | 5 | 0 | 3 | 5 | 5 | 5 | | |
| | | | | | | | | | | | | | | | | | * TOTALS | |

| | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Parotid Gland, Adenoma | | | | | | | | | | | | | | | | | 1 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | 1 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 85 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Blood Vessel | | | | | | | | | | | | | | | | | 1 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Myocardium, Schwannoma Malignant | | | | | | X | | | | | | | | | | | 3 |
| Pericardium, Schwannoma Malignant, Metastatic, Thymus | | | | | | | | | | | | | | | | | 1 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Pheochromocytoma Benign | | | | | X | X | | X | | | | | X | X | | | 19 |
| Pheochromocytoma Benign, Multiple | | | | | | | | | | | | | | | | | 2 |
| Pheochromocytoma Malignant | | | | X | | | | | | | | | X | | | | 3 |
| Bilateral, Pheochromocytoma Benign | | | | | | | | | | | | | | | | | 1 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 87 |
| Adenoma | X | | | | | | | | X | | | | | | | | 7 |
| Adenoma, Multiple | | | | | | | | | | | | | | | | | 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | * TOTALS |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
| | 0
7
3
4 | 0
7
3
4 | 0
7
3
4 | 0
7
3
4 | 0
7
3
4 | 0
7
3
4 | 0
7
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4 | 0
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4 | 0
7
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4 | 0
7
3
4 | 0
7
3
4 | 0
7
3
4 | 0
7
3
4 | 0
7
3
4 | 0
7
3
4 | |
| ANIMAL ID | 0
1
5
6
1 | 0
1
5
6
1 | 0
1
5
6
1 | 0
1
5
6
1 | 0
1
5
6
1 | 0
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1 | 0
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1 | 0
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1 | 0
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1 | 0
1
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6
1 | 0
1
5
6
1 | 0
1
5
6
1 | 0
1
5
6
1 | 0
1
5
6
1 | 0
1
5
6
1 | |
| Carcinoma | X | X | X | | | | | X | X | | | | | | | 13 |
| Parathyroid Gland
Adenoma | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 83
2 |
| Pituitary Gland
Pars Distalis, Adenoma
Pars Distalis, Adenoma, Multiple | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90
33
1 |
| Thyroid Gland
Bilateral, C-cell, Carcinoma
C-cell, Adenoma
C-cell, Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 86
1
14
1 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | |
| Tissue NOS
Mediastinum, Chemodectoma Benign | | | | | | | | | | | | | | | + | 3
1 |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | |
| Coagulating Gland | | | | + | | | | | | | | | | | | 3 |
| Ductus Deferens
Leiomyoma | | | | | | | | | | | | | | | | 1
1 |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Penis | | | | | | | | | | | | | | | | 2 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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 | |
| HARLAN SPRAGUE DAWLEY RATS
MALE | 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 | 7 | 7 | 7 | 7 | 7 | |
| 3.0W/kg(CDMA)chr | 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 | |
| ANIMAL ID | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 6 | 6 | |
| | 6 | 6 | 6 | 8 | 9 | 1 | 1 | 3 | 4 | 4 | 6 | 7 | 9 | 0 | 1 | |
| | 1 | 6 | 7 | 9 | 4 | 7 | 9 | 3 | 6 | 9 | 5 | 0 | 3 | 5 | 5 | |
| * TOTALS | | | | | | | | | | | | | | | | |
| Adenoma | X | | | | | | | | | | | | | | 2 | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Testis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Hemangioma | | | | | | | | | | | | | | | 1 | |
| Interstitial Cell, Adenoma | | | | | | | | | | | | | | | 1 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Pheochromocytoma Malignant, Metastatic, Adrenal Medulla | X | | | | | | | | | | | | | | 1 | |
| Lymph Node | | | | | + | + | | | | | + | | | | | 24 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 87 |
| Schwannoma Malignant | | | | | | | | | | | | | | | 1 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 80 |
| Fibroadenoma | X | | | | | | | | | | | | | | 2 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Keratoacanthoma | | | | | | | | | | | | | | | 5 | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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
MALE | 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 | 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 |
| 3.0W/kg(CDMA)chr | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 6 | 6 | 6 |
| | 6 | 6 | 6 | 8 | 9 | 1 | 1 | 3 | 4 | 4 | 6 | 7 | 9 | 0 | 1 | 1 |
| | 1 | 6 | 7 | 9 | 4 | 7 | 9 | 9 | 6 | 9 | 5 | 0 | 3 | 5 | 5 | 5 |
| * TOTALS | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Squamous Cell Papilloma | X | | | | | | | | | | | | | | | 3 |
| Conjunctiva, Sarcoma | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Fibroma | X | | | | | | | | | | | | | | | 6 |
| Subcutaneous Tissue, Fibroma, Multiple | X | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Fibrosarcoma | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Hibernoma | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Lipoma | | | | | | | | | | | | | | | | 4 |
| Subcutaneous Tissue, Myxosarcoma, Multiple | | | | | | | | | | | | | | | | 1 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Bone, Vertebra | + | | | | | | | | | | | | | | | 1 | |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Hemangiosarcoma | | | | | | | | | | | | | | | | 1 | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Meningioma Benign | | | | | | | | | | | | | | | | 1 | |
| Meninges, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | 1 | |
| Meninges, Granular Cell Tumor Malignant | | | | | | | | | | | | | | | | 1 | |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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 MALE
3.0W/kg(CDMA)chr | 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 | 7 | 7 | 7 | 7 | 7 | | | |
| | 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 | | | |
| | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 6 | 6 | 6 | | | |
| | 6 | 6 | 6 | 8 | 9 | 1 | 1 | 3 | 4 | 4 | 6 | 7 | 9 | 0 | 1 | 1 | | | |
| | 1 | 6 | 7 | 9 | 4 | 7 | 9 | 9 | 6 | 9 | 5 | 0 | 3 | 5 | 5 | 5 | | | |
| | | | | | | | | | | | | | | | | | * TOTALS | | |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 90 |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 90 |
| Trigeminal Ganglion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 79 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 90 |
| Alveolar/Bronchiolar Adenoma | | | | | | | X | | | | | | | | | | | | 1 |
| Alveolar/Bronchiolar Carcinoma | | | | | | | | | | | | | | | | | | | 1 |
| Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | | | 1 |
| Pheochromocytoma Malignant, Metastatic, Adrenal Medulla | | | | X | | | | | | | | | | | | | | | 2 |
| Schwannoma Malignant, Metastatic, Thymus | | | | | | | | | | | | | | | | | | | 1 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 90 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 88 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 81 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 90 |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | 1 |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | 1 |
| 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 - 56

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Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
3.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
| | 0
7
3
4 | 0
7
3
4 | 0
7
3
4 | 0
7
3
4 | 0
7
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4 | 0
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4 | 0
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7
3
4 | |
| ANIMAL ID | 0
1
5
6
1 | 0
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5
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1 | 0
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1
5
6
1 | 0
1
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1 | 0
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5
6
1 | 0
1
5
6
1 | 0
1
5
6
1 | 0
1
5
6
1 | 0
1
5
6
1 | 0
1
5
6
1 | 0
1
5
6
1 | 0
1
5
6
1 | 0
1
5
6
1 | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lipoma | | | | | | | | | | | | | | | | 1 |
| Liposarcoma | | | | | | | | | | | | | | | | 1 |
| Bilateral, Renal Tubule, Adenoma | | | | | | | | | | | | | | | | 1 |
| Bilateral, Renal Tubule, Carcinoma | | | | | | | | | | | | | | | | 1 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 83 |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | 4 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | 1 |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | 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 - 56

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Route: Whole Body Exposure

Species/Strain: RATS/HSD

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Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|--------|--------|
| | 0153 | 0201 | 0208 | 0304 | 0303 | 0404 | 0404 | 0404 | 0404 | 0404 | 0404 | 0405 | 0405 | 0405 | 0405 | 0405 | 0405 | 0405 | 0405 | 0405 | 0405 | 0405 | 0405 | | | 0405 | 008847 |
| | 0153 | 0201 | 0208 | 0304 | 0303 | 0404 | 0404 | 0404 | 0404 | 0404 | 0404 | 0405 | 0405 | 0405 | 0405 | 0405 | 0405 | 0405 | 0405 | 0405 | 0405 | 0405 | 0405 | 0405 | 008847 | | |
| | 1187 | 1108 | 1108 | 1108 | 1108 | 1108 | 1108 | 1108 | 1108 | 1108 | 1108 | 1108 | 1108 | 1108 | 1108 | 1108 | 1108 | 1108 | 1108 | 1108 | 1108 | 1108 | 1108 | 1108 | 1108 | 008847 | |

Stomach, Glandular + A + A + + + + + A A A + + A + + + + A + + A +

CARDIOVASCULAR SYSTEM

Aorta +
Sarcoma, Metastatic, Skeletal Muscle X

Heart +
Atrium, Schwannoma Malignant
Endocardium, Schwannoma Malignant X
Myocardium, Schwannoma Malignant X

ENDOCRINE SYSTEM

Adrenal Cortex + + + A +
Carcinoma

Adrenal Medulla +
Pheochromocytoma Benign X
Pheochromocytoma Malignant X
Bilateral, Pheochromocytoma Benign

Islets, Pancreatic + A + A + + A + + A A A + + A + + + + + + + + A A +
Adenoma
Carcinoma
Carcinoma, Multiple X

Parathyroid Gland + + + + + M + + + + + + + M + + + + + M + + + M
Adenoma

Pituitary 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

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Route: Whole Body Exposure

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P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

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

Lab: IIT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|-------------|---------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|-----------------|
| | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | |
| 03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 01 | males (cont...) |
| 05 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 08 | |
| 07 | 3 | 1 | 9 | 8 | 1 | 5 | 3 | 0 | 9 | 5 | 8 | 7 | 0 | 0 | 8 | 9 | 1 | 5 | 4 | 4 | 7 | 7 | 0 | 0 | 04 | |
| 08 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 07 | |
| 09 | 8 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 8 | 8 | 7 | 7 | 8 | 7 | 8 | 7 | 7 | 8 | 7 | 7 | 8 | 7 | 7 | 09 | |
| 10 | 4 | 9 | 2 | 3 | 1 | 6 | 3 | 1 | 7 | 2 | 2 | 7 | 9 | 1 | 6 | 0 | 7 | 7 | 3 | 7 | 7 | 2 | 6 | 6 | 06 | |
| 11 | 7 | 1 | 6 | 9 | 7 | 4 | 6 | 2 | 1 | 8 | 1 | 6 | 0 | 5 | 3 | 1 | 8 | 2 | 1 | 0 | 9 | 4 | 5 | 9 | 02 | |

Schwannoma Malignant, Metastatic, Tissue Nos

X

Pars Distalis, Adenoma

X

Pars Distalis, Adenoma, Multiple

X

Thyroid Gland

+

C-cell, Adenoma

A

C-cell, Carcinoma

+

Follicular Cell, Adenoma

A

+

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A

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X

GENERAL BODY SYSTEM

Tissue NOS

+

Schwannoma Malignant

X

Fat, Schwannoma Malignant

GENITAL SYSTEM

Epididymis

+

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Penis

Preputial Gland

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Sarcoma, Metastatic, Skeletal Muscle

X

Prostate

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Adenoma

X

Sarcoma, Metastatic, Skeletal Muscle

X

Seminal Vesicle

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Sarcoma, Metastatic, Skeletal Muscle

X

Testis

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* .. 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 - 56
 Test Type: CHRONIC
 Route: Whole Body Exposure
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA
 CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018
 Time Report Requested: 13:31:21
 First Dose M/F: 09/16/12 / 09/16/12
 Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)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 |
| | | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | | 5 | 0 | 8 | 4 | 7 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 2 | 3 | 4 | 4 | 5 | 6 | 6 | 8 | 8 | 8 | 8 |
| | 3 | 1 | 9 | 8 | 1 | 5 | 3 | 0 | 9 | 5 | 8 | 7 | 0 | 0 | 8 | 9 | 1 | 5 | 7 | 2 | 7 | 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 | |
| | 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 | |
| | 8 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 8 | 8 | 7 | 7 | 8 | 7 | 8 | 7 | 7 | 8 | 7 | 7 | 8 | 7 | 7 | 7 | 7 | |
| | 4 | 9 | 2 | 3 | 1 | 6 | 3 | 1 | 7 | 2 | 2 | 7 | 9 | 1 | 6 | 0 | 7 | 7 | 3 | 7 | 7 | 2 | 2 | 6 | 6 | | |
| | 7 | 1 | 6 | 9 | 7 | 4 | 6 | 2 | 1 | 8 | 1 | 6 | 0 | 5 | 3 | 1 | 8 | 2 | 1 | 0 | 9 | 0 | 4 | 5 | 9 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |

males
(cont...)

Interstitial Cell, Adenoma

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymph Node | | | | + | | | | | | | | + | | | | | | | | | | | | | + |
| Iliac, Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lumbar, Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymph Node, Mandibular | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Spleen | + | + | + | + | + | + | A | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | X |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | M | + | + | + | + | + | + | M | + | + | + | M | + | + | + | + | + | + | M | + | + | + | + | + | M |
| Fibroadenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Keratoacanthoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trichoepithelioma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sebaceous Gland, 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)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
(cont...) | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------------|--------------------|--|
| | | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | | |
| | | 5 | 0 | 8 | 4 | 7 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 2 | 3 | 4 | 4 | 5 | 6 | 6 | 8 | 8 | 8
7
7
8
9 | | |
| | | 3 | 1 | 9 | 8 | 1 | 5 | 3 | 0 | 9 | 5 | 8 | 7 | 0 | 0 | 8 | 9 | 1 | 5 | 7 | 2 | 7 | 7 | 0 | 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 | | |
| | | 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 | | |
| | | 8 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 8 | 8 | 7 | 7 | 8 | 7 | 8 | 7 | 7 | 8 | 7 | 7 | 7 | 8 | 7 | 7 | | |
| | | 4 | 9 | 2 | 3 | 1 | 6 | 3 | 1 | 7 | 2 | 2 | 7 | 9 | 1 | 6 | 0 | 7 | 7 | 3 | 7 | 7 | 2 | 7 | 2 | 6 | | |
| | | 7 | 1 | 6 | 9 | 7 | 4 | 6 | 2 | 1 | 8 | 1 | 6 | 0 | 5 | 3 | 1 | 8 | 2 | 1 | 0 | 9 | 0 | 4 | 5 | 8 | | |

Subcutaneous Tissue, Fibroma
 Subcutaneous Tissue, Lipoma
 Subcutaneous Tissue, Malignant Fibrous
 Histiocytoma

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | X | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Glioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant, Metastatic, Tissue Nos | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Choroid Plexus, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meninges, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|--------------------|--------------------|
| | 0153 | 0219 | 0328 | 0437 | 0546 | 0655 | 0764 | 0873 | 0982 | 1091 | 1100 | 1209 | 1318 | 1427 | 1536 | 1645 | 1754 | 1863 | 1972 | 2081 | 2190 | 2299 | 2408 | 2517 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0153 | males
(cont...) | |
| | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 1153 | | |
| | 5 | 0 | 8 | 4 | 7 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 2 | 3 | 4 | 4 | 5 | 6 | 6 | 8 | 8 | 8153 | | |
| | 3 | 1 | 9 | 8 | 1 | 5 | 3 | 0 | 9 | 5 | 8 | 7 | 0 | 0 | 8 | 9 | 1 | 5 | 7 | 2 | 7 | 7 | 0 | 2 | 9153 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 08153 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 88153 | | |
| | 8 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 8 | 8 | 7 | 7 | 8 | 7 | 8 | 7 | 7 | 8 | 7 | 7 | 8 | 7 | 7 | 98153 | | |
| | 4 | 9 | 2 | 3 | 1 | 6 | 3 | 1 | 7 | 2 | 2 | 7 | 9 | 1 | 6 | 0 | 7 | 7 | 3 | 7 | 7 | 2 | 6 | 6 | 49153 | | |
| | 7 | 1 | 6 | 9 | 7 | 4 | 6 | 2 | 1 | 8 | 1 | 6 | 0 | 5 | 3 | 1 | 8 | 2 | 1 | 0 | 9 | 0 | 4 | 5 | 7153 | | |

Trigeminal Ganglion

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

RESPIRATORY SYSTEM

Lung

+ +

Carcinoma, Metastatic, Kidney

Hepatocellular Carcinoma, Metastatic, Liver

Sarcoma, Metastatic, Skeletal Muscle

X

Nose

+ + + A +

Schwannoma Malignant, Metastatic, Tissue

Nos

X

Trachea

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

SPECIAL SENSES SYSTEM

Eye

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

Harderian Gland

+ +

Schwannoma Malignant, Metastatic, Tissue

Nos

X

Lacrimal Gland

+

Zymbal's Gland

+

Adenoma

X

URINARY SYSTEM

Kidney

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

Nephroblastoma

X

Pelvis, 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 - 56

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:31:21

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

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

Species/Strain: RATS/HSD

Lab: IIT

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

Perirenal Tissue, Sarcoma, Metastatic, Skeletal Muscle

X

Renal Tubule, Carcinoma

Urinary Bladder

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

Serosa, Sarcoma, Metastatic, Skeletal Muscle

X

SYSTEMIC LESIONS

Multiple Organ

+ +

Histiocytic Sarcoma

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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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
MALE
6.0W/kg(CDMA)chr | ANIMAL ID | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 |
| | | 8 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 2 | 2 | 3 | 5 | 6 | 6 | 8 | 9 | 0 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 3 |
| | | 6 | 0 | 2 | 4 | 4 | 8 | 8 | 8 | 1 | 2 | 0 | 0 | 5 | 5 | 5 | 0 | 3 | 8 | 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 | 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 | |
| | 8 | 8 | 8 | 8 | 8 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 7 | 8 | 8 | 7 | 8 | 7 | 8 | 8 | 8 | 8 | 7 | 7 | |
| | 5 | 4 | 2 | 3 | 5 | 7 | 1 | 5 | 3 | 3 | 5 | 3 | 6 | 8 | 1 | 3 | 7 | 6 | 7 | 0 | 0 | 5 | 6 | 8 | 8 | |
| | 8 | 3 | 7 | 2 | 4 | 3 | 3 | 3 | 7 | 3 | 5 | 0 | 8 | 6 | 4 | 5 | 5 | 1 | 4 | 0 | 3 | 7 | 6 | 3 | 4 | |

males
(cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | A | + | + | + | + | + | + | + | + | + | A | + | A | A | A | + | + | A | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | M | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum
Serosa, Sarcoma, Metastatic, Skeletal Muscle | + | A | + | + | + | + | + | + | + | A | + | A | + | A | + | + | A | + | + | + | A | + | + | + | + |
| Intestine Small, Duodenum
Serosa, Sarcoma, Metastatic, Skeletal Muscle | + | + | A | + | A | + | A | A | + | + | + | + | A | + | A | A | A | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | A | + | M | + | + | A | A | + | + | + | + | A | + | A | + | A | + | A | A | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | A | A | + | A | + | + | + | + | A | + | A | A | A | + | + | + | + | A | + | + | + |
| Liver
Hepatocellular Carcinoma
Sarcoma, Metastatic, Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | + | | | | + | | | | | | | | | | | | | | | + |
| Pancreas
Adenoma
Adenoma, Multiple | + | + | + | + | A | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | X | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + |
| 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 - 56
 Test Type: CHRONIC
 Route: Whole Body Exposure
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA
 CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018
 Time Report Requested: 13:31:21
 First Dose M/F: 09/16/12 / 09/16/12
 Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| HARLAN SPRAGUE DAWLEY RATS MALE
6.0W/kg(CDMA)chr | DAY ON TEST | 0586 | 0590 | 0594 | 0598 | 0602 | 0606 | 0610 | 0614 | 0618 | 0622 | 0626 | 0630 | 0634 | 0638 | 0642 | 0646 | 0650 | 0654 | 0658 | 0702 | 0706 | 0710 | 0714 | 0718 | 0722 | 0726 | 0730 | 0734 | 0738 | 0742 | 0746 | 0750 | | | | | | |
| | ANIMAL ID | 0185 | 0188 | 0192 | 0195 | 0198 | 0201 | 0204 | 0207 | 0210 | 0213 | 0216 | 0219 | 0222 | 0225 | 0228 | 0231 | 0234 | 0237 | 0240 | 0243 | 0246 | 0249 | 0252 | 0255 | 0258 | 0261 | 0264 | 0267 | 0270 | 0273 | 0276 | 0279 | 0282 | 0285 | 0288 | 0291 | 0294 | 0297 |

males (cont...)

Stomach, Glandular + + + + + + + + + + A + A + A + + A + + + + + + + +

CARDIOVASCULAR SYSTEM

Aorta +
 Sarcoma, Metastatic, Skeletal Muscle
 Heart +
 Atrium, Schwannoma Malignant
 Endocardium, Schwannoma Malignant
 Myocardium, Schwannoma Malignant X

ENDOCRINE SYSTEM

Adrenal Cortex +
 Carcinoma X
 Adrenal Medulla +
 Pheochromocytoma Benign
 Pheochromocytoma Malignant
 Bilateral, Pheochromocytoma Benign X
 Islets, Pancreatic + + + + A + + + + + + + + + + A + + + + + + + + + + + + + +
 Adenoma X
 Carcinoma X X
 Carcinoma, Multiple
 Parathyroid Gland + + + + + + + + + + + + + + M + + + + + + + + + + + + + +
 Adenoma
 Pituitary 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 - 56

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:31:21

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

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

Species/Strain: RATS/HSD

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|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| | 0586 | 0590 | 0592 | 0594 | 0596 | 0600 | 0602 | 0604 | 0606 | 0608 | 0610 | 0612 | 0614 | 0616 | 0618 | 0620 | 0622 | 0624 | 0626 | 0628 | 0630 | 0632 | 0634 | 0636 | | | 0638 | 0640 | 0642 | 0644 | 0646 | 0648 | 0650 | 0652 | 0654 | 0656 | 0658 | 0660 | 0662 | 0664 | 0666 | 0668 | 0670 | 0672 | 0674 | 0676 | 0678 | 0680 | 0682 | 0684 | 0686 | 0688 | 0690 | 0692 | 0694 | 0696 | 0698 | 0700 | 0702 | 0704 | 0706 | 0708 | 0710 | 0712 | 0714 | 0716 | 0718 | 0720 | 0722 | 0724 | 0726 | 0728 | 0730 | 0732 | 0734 | 0736 | 0738 | 0740 | 0742 | 0744 | 0746 | 0748 | 0750 | 0752 | 0754 | 0756 | 0758 | 0760 | 0762 | 0764 | 0766 | 0768 | 0770 | 0772 | 0774 | 0776 | 0778 | 0780 | 0782 | 0784 | 0786 | 0788 | 0790 | 0792 | 0794 | 0796 | 0798 | 0800 | 0802 | 0804 | 0806 | 0808 | 0810 | 0812 | 0814 | 0816 | 0818 | 0820 | 0822 | 0824 | 0826 | 0828 | 0830 | 0832 | 0834 | 0836 | 0838 | 0840 | 0842 | 0844 | 0846 | 0848 | 0850 | 0852 | 0854 | 0856 | 0858 | 0860 | 0862 | 0864 | 0866 | 0868 | 0870 | 0872 | 0874 | 0876 | 0878 | 0880 | 0882 | 0884 | 0886 | 0888 | 0890 | 0892 | 0894 | 0896 | 0898 | 0900 | 0902 | 0904 | 0906 | 0908 | 0910 | 0912 | 0914 | 0916 | 0918 | 0920 | 0922 | 0924 | 0926 | 0928 | 0930 | 0932 | 0934 | 0936 | 0938 | 0940 | 0942 | 0944 | 0946 | 0948 | 0950 | 0952 | 0954 | 0956 | 0958 | 0960 | 0962 | 0964 | 0966 | 0968 | 0970 | 0972 | 0974 | 0976 | 0978 | 0980 | 0982 | 0984 | 0986 | 0988 | 0990 | 0992 | 0994 | 0996 | 0998 | 1000 | 1002 | 1004 | 1006 | 1008 | 1010 | 1012 | 1014 | 1016 | 1018 | 1020 | 1022 | 1024 | 1026 | 1028 | 1030 | 1032 | 1034 | 1036 | 1038 | 1040 | 1042 | 1044 | 1046 | 1048 | 1050 | 1052 | 1054 | 1056 | 1058 | 1060 | 1062 | 1064 | 1066 | 1068 | 1070 | 1072 | 1074 | 1076 | 1078 | 1080 | 1082 | 1084 | 1086 | 1088 | 1090 | 1092 | 1094 | 1096 | 1098 | 1100 | 1102 | 1104 | 1106 | 1108 | 1110 | 1112 | 1114 | 1116 | 1118 | 1120 | 1122 | 1124 | 1126 | 1128 | 1130 | 1132 | 1134 | 1136 | 1138 | 1140 | 1142 | 1144 | 1146 | 1148 | 1150 | 1152 | 1154 | 1156 | 1158 | 1160 | 1162 | 1164 | 1166 | 1168 | 1170 | 1172 | 1174 | 1176 | 1178 | 1180 | 1182 | 1184 | 1186 | 1188 | 1190 | 1192 | 1194 | 1196 | 1198 | 1200 | 1202 | 1204 | 1206 | 1208 | 1210 | 1212 | 1214 | 1216 | 1218 | 1220 | 1222 | 1224 | 1226 | 1228 | 1230 | 1232 | 1234 | 1236 | 1238 | 1240 | 1242 | 1244 | 1246 | 1248 | 1250 | 1252 | 1254 | 1256 | 1258 | 1260 | 1262 | 1264 | 1266 | 1268 | 1270 | 1272 | 1274 | 1276 | 1278 | 1280 | 1282 | 1284 | 1286 | 1288 | 1290 | 1292 | 1294 | 1296 | 1298 | 1300 | 1302 | 1304 | 1306 | 1308 | 1310 | 1312 | 1314 | 1316 | 1318 | 1320 | 1322 | 1324 | 1326 | 1328 | 1330 | 1332 | 1334 | 1336 | 1338 | 1340 | 1342 | 1344 | 1346 | 1348 | 1350 | 1352 | 1354 | 1356 | 1358 | 1360 | 1362 | 1364 | 1366 | 1368 | 1370 | 1372 | 1374 | 1376 | 1378 | 1380 | 1382 | 1384 | 1386 | 1388 | 1390 | 1392 | 1394 | 1396 | 1398 | 1400 | 1402 | 1404 | 1406 | 1408 | 1410 | 1412 | 1414 | 1416 | 1418 | 1420 | 1422 | 1424 | 1426 | 1428 | 1430 | 1432 | 1434 | 1436 | 1438 | 1440 | 1442 | 1444 | 1446 | 1448 | 1450 | 1452 | 1454 | 1456 | 1458 | 1460 | 1462 | 1464 | 1466 | 1468 | 1470 | 1472 | 1474 | 1476 | 1478 | 1480 | 1482 | 1484 | 1486 | 1488 | 1490 | 1492 | 1494 | 1496 | 1498 | 1500 | 1502 | 1504 | 1506 | 1508 | 1510 | 1512 | 1514 | 1516 | 1518 | 1520 | 1522 | 1524 | 1526 | 1528 | 1530 | 1532 | 1534 | 1536 | 1538 | 1540 | 1542 | 1544 | 1546 | 1548 | 1550 | 1552 | 1554 | 1556 | 1558 | 1560 | 1562 | 1564 | 1566 | 1568 | 1570 | 1572 | 1574 | 1576 | 1578 | 1580 | 1582 | 1584 | 1586 | 1588 | 1590 | 1592 | 1594 | 1596 | 1598 | 1600 | 1602 | 1604 | 1606 | 1608 | 1610 | 1612 | 1614 | 1616 | 1618 | 1620 | 1622 | 1624 | 1626 | 1628 | 1630 | 1632 | 1634 | 1636 | 1638 | 1640 | 1642 | 1644 | 1646 | 1648 | 1650 | 1652 | 1654 | 1656 | 1658 | 1660 | 1662 | 1664 | 1666 | 1668 | 1670 | 1672 | 1674 | 1676 | 1678 | 1680 | 1682 | 1684 | 1686 | 1688 | 1690 | 1692 | 1694 | 1696 | 1698 | 1700 | 1702 | 1704 | 1706 | 1708 | 1710 | 1712 | 1714 | 1716 | 1718 | 1720 | 1722 | 1724 | 1726 | 1728 | 1730 | 1732 | 1734 | 1736 | 1738 | 1740 | 1742 | 1744 | 1746 | 1748 | 1750 | 1752 | 1754 | 1756 | 1758 | 1760 | 1762 | 1764 | 1766 | 1768 | 1770 | 1772 | 1774 | 1776 | 1778 | 1780 | 1782 | 1784 | 1786 | 1788 | 1790 | 1792 | 1794 | 1796 | 1798 | 1800 | 1802 | 1804 | 1806 | 1808 | 1810 | 1812 | 1814 | 1816 | 1818 | 1820 | 1822 | 1824 | 1826 | 1828 | 1830 | 1832 | 1834 | 1836 | 1838 | 1840 | 1842 | 1844 | 1846 | 1848 | 1850 | 1852 | 1854 | 1856 | 1858 | 1860 | 1862 | 1864 | 1866 | 1868 | 1870 | 1872 | 1874 | 1876 | 1878 | 1880 | 1882 | 1884 | 1886 | 1888 | 1890 | 1892 | 1894 | 1896 | 1898 | 1900 | 1902 | 1904 | 1906 | 1908 | 1910 | 1912 | 1914 | 1916 | 1918 | 1920 | 1922 | 1924 | 1926 | 1928 | 1930 | 1932 | 1934 | 1936 | 1938 | 1940 | 1942 | 1944 | 1946 | 1948 | 1950 | 1952 | 1954 | 1956 | 1958 | 1960 | 1962 | 1964 | 1966 | 1968 | 1970 | 1972 | 1974 | 1976 | 1978 | 1980 | 1982 | 1984 | 1986 | 1988 | 1990 | 1992 | 1994 | 1996 | 1998 | 2000 | 2002 | 2004 | 2006 | 2008 | 2010 | 2012 | 2014 | 2016 | 2018 | 2020 | 2022 | 2024 | 2026 | 2028 | 2030 | 2032 | 2034 | 2036 | 2038 | 2040 | 2042 | 2044 | 2046 | 2048 | 2050 | 2052 | 2054 | 2056 | 2058 | 2060 | 2062 | 2064 | 2066 | 2068 | 2070 | 2072 | 2074 | 2076 | 2078 | 2080 | 2082 | 2084 | 2086 | 2088 | 2090 | 2092 | 2094 | 2096 | 2098 | 2100 | 2102 | 2104 | 2106 | 2108 | 2110 | 2112 | 2114 | 2116 | 2118 | 2120 | 2122 | 2124 | 2126 | 2128 | 2130 | 2132 | 2134 | 2136 | 2138 | 2140 | 2142 | 2144 | 2146 | 2148 | 2150 | 2152 | 2154 | 2156 | 2158 | 2160 | 2162 | 2164 | 2166 | 2168 | 2170 | 2172 | 2174 | 2176 | 2178 | 2180 | 2182 | 2184 | 2186 | 2188 | 2190 | 2192 | 2194 | 2196 | 2198 | 2200 | 2202 | 2204 | 2206 | 2208 | 2210 | 2212 | 2214 | 2216 | 2218 | 2220 | 2222 | 2224 | 2226 | 2228 | 2230 | 2232 | 2234 | 2236 | 2238 | 2240 | 2242 | 2244 | 2246 | 2248 | 2250 | 2252 | 2254 | 2256 | 2258 | 2260 | 2262 | 2264 | 2266 | 2268 | 2270 | 2272 | 2274 | 2276 | 2278 | 2280 | 2282 | 2284 | 2286 | 2288 | 2290 | 2292 | 2294 | 2296 | 2298 | 2300 | 2302 | 2304 | 2306 | 2308 | 2310 | 2312 | 2314 | 2316 | 2318 | 2320 | 2322 | 2324 | 2326 | 2328 | 2330 | 2332 | 2334 | 2336 | 2338 | 2340 | 2342 | 2344 | 2346 | 2348 | 2350 | 2352 | 2354 | 2356 | 2358 | 2360 | 2362 | 2364 | 2366 | 2368 | 2370 | 2372 | 2374 | 2376 | 2378 | 2380 | 2382 | 2384 | 2386 | 2388 | 2390 | 2392 | 2394 | 2396 | 2398 | 2400 | 2402 | 2404 | 2406 | 2408 | 2410 | 2412 | 2414 | 2416 | 2418 | 2420 | 2422 | 2424 | 2426 | 2428 | 2430 | 2432 | 2434 | 2436 | 2438 | 2440 | 2442 | 2444 | 2446 | 2448 | 2450 | 2452 | 2454 | 2456 | 2458 | 2460 | 2462 | 2464 | 2466 | 2468 | 2470 | 2472 | 2474 | 2476 | 2478 | 2480 | 2482 | 2484 | 2486 | 2488 | 2490 | 2492 | 2494 | 2496 | 2498 | 2500 | 2502 | 2504 | 2506 | 2508 | 2510 | 2512 | 2514 | 2516 | 2518 | 2520 | 2522 | 2524 | 2526 | 2528 | 2530 | 2532 | 2534 | 2536 | 2538 | 2540 | 2542 | 2544 | 2546 | 2548 | 2550 | 2552 | 2554 | 2556 | 2558 | 2560 | 2562 | 2564 | 2566 | 2568 | 2570 | 2572 | 2574 | 2576 | 2578 | 2580 | 2582 | 2584 | 2586 | 2588 | 2590 | 2592 | 2594 | 2596 | 2598 | 2600 | 2602 | 2604 | 2606 | 2608 | 2610 | 2612 | 2614 | 2616 | 2618 | 2620 | 2622 | 2624 | 2626 | 2628 | 2630 | 2632 | 2634 | 2636 | 2638 | 2640 | 2642 | 2644 | 2646 | 2648 | 2650 | 2652 | 2654 | 2656 | 2658 | 2660 | 2662 | 2664 | 2666 | 2668 | 2670 | 2672 | 2674 | 2676 | 2678 | 2680 | 2682 | 2684 | 2686 | 2688 | 2690 | 2692 | 2694 | 2696 | 2698 | 2700 | 2702 | 2704 | 2706 | 2708 | 2710 | 2712 | 2714 | 2716 | 2718 | 2720 | 2722 | 2724 | 2726 | 2728 | 2730 | 2732 | 2734 | 2736 | 2738 | 2740 | 2742 | 2744 | 2746 | 2748 | 2750 | 2752 | 2754 | 2756 | 2758 | 2760 | 2762 | 2764 | 2766 | 2768 | 2770 | 2772 | 2774 | 2776 | 2778 | 2780 | 2782 | 2784 | 2786 | 2788 | 2790 | 2792 | 2794 | 2796 | 2798 | 2800 | 2802 | 2804 | 2806 | 2808 | 2810 | 2812 | 2814 | 2816 | 2818 | 2820 | 2822 | 2824 | 2826 | 2828 | 2830 | 2832 | 2834 | 2836 | 2838 | 2840 | 2842 | 2844 | 2846 | 2848 | 2850 | 2852 | 2854 | 2856 | 2858 | 2860 | 2862 | 2864 | 2866 | 2868 | 2870 | 2872 | 2874 | 2876 | 2878 | 2880 | 2882 | 2884 | 2886 | 2888 | 2890 | 2892 | 2894 | 2896 | 2898 | 2900 | 2902 | 2904 | 2906 | 2908 | 2910 | 2912 | 2914 | 2916 | 2918 | 2920 | 2922 | 2924 | 2926 | 2928 | 2930 | 2932 | 2934 | 2936 | 2938 | 2940 | 2942 | 2944 | 2946 | 2948 | 2950 | 2952 | 2954 | 2956 | 2958 | 2960 | 2962 | 2964 | 2966 | 2968 | 2970 | 2972 | 2974 | 2976 | 2978 | 2980 | 2982 | 2984 | 2986 | 2988 | 2990 | 2992 | 2994 | 2996 | 2998 | 3000 | 3002 | 3004 | 3006 | 3008 | 3010 | 3012 | 3014 | 3016 | 3018 | 3020 | 3022 | 3024 | 3026 | 3028 | 3030 | 3032 | 3034 | 3036 | 3038 | 3040 | 3042 | 3044 | 3046 | 3048 | 3050 | 3052 | 3054 | 3056 | 3058 | 3060 | 3062 | 3064 | 3066 | 3068 | 3070 | 3072 | 3074 | 3076 | 3078 | 3080 | 3082 | 3084 | 3086 | 3088 | 3090 | 3092 | 3094 | 3096 | 3098 | 3100 | 3102 | 3104 | 3106 | 3108 | 3110 | 3112 | 3114 | 3116 | 3118 | 3120 | 3122 | 3124 | 3126 | 3128 | 3130 | 3132 | 3134 | 3136 | 3138 | 3140 | 3142 | 3144 | 3146 | 3148 | 3150 | 3152 | 3154 | 3156 | 3158 | 3160 | 3162 | 3164 | 3166 | 3168 | 3170 | 3172 | 3174 | 3176 | 3178 | 3180 | 3182 | 3184 | 3186 | 3188 | 3190 | 3192 | 3194 | 3196 | 3198 | 3200 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------------|
| HARLAN SPRAGUE DAWLEY RATS MALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
| | 0586 | 0590 | 0592 | 0594 | 0594 | 0608 | 0608 | 0608 | 0608 | 0608 | 0608 | 0608 | 0608 | 0608 | 0608 | 0608 | 0608 | 0608 | 0608 | 0608 | 0608 | 0608 | 0608 | 0608 | |
| | 0188 | 0188 | 0188 | 0188 | 0188 | 0178 | 0188 | 0188 | 0188 | 0188 | 0188 | 0188 | 0177 | 0188 | 0188 | 0177 | 0188 | 0188 | 0177 | 0188 | 0188 | 0177 | 0188 | 0188 | |
| ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | |

Perirenal Tissue, Sarcoma, Metastatic, Skeletal Muscle
 Renal Tubule, Carcinoma

Urinary Bladder
 Serosa, Sarcoma, Metastatic, Skeletal Muscle

SYSTEMIC LESIONS

Multiple Organ
 Histiocytic Sarcoma
 Leukemia Mononuclear
 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| HARLAN SPRAGUE DAWLEY RATS | 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 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 7 | 7 | 7 | 7 | 7 | 7 |
| MALE | 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 |
| | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | 0 | 0 | 3 | 4 | 6 | 6 | 6 | 8 | 0 | 0 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 6 |
| 6.0W/kg(CDMA)chr | 4 | 8 | 4 | 4 | 1 | 2 | 9 | 2 | 6 | 7 | 5 | 1 | 2 | 0 | 3 | 3 | 3 | 3 |
| | | | | | | | | | | | | | | | | | | * TOTALS |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 68 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 76 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 76 |
| Serosa, Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | 1 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 66 |
| Serosa, Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | 1 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 63 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 62 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| Hepatocellular Carcinoma | | | | | | | | | | | | | | | | | | 1 |
| Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | 1 |
| Mesentery | | | | | | | | | | | | + | | | | | + | 6 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 78 |
| Adenoma | | | | | | | | | | | | | | | | | | 5 |
| Adenoma, Multiple | | | | | | | | | | | | | | | | | | 2 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 86 |
| 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| MALE | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 7 | 7 | 7 | | | |
| 6.0W/kg(CDMA)chr | 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 | | | |
| | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | |
| | 0 | 0 | 3 | 4 | 6 | 6 | 6 | 8 | 0 | 0 | 4 | 5 | 5 | 6 | 6 | | | |
| | 4 | 8 | 4 | 4 | 1 | 2 | 9 | 2 | 6 | 7 | 5 | 1 | 2 | 0 | 3 | | | |
| | | | | | | | | | | | | | | | | * TOTALS | | |

Stomach, Glandular + + + + + + + + + + + + + + + **78**

CARDIOVASCULAR SYSTEM

Aorta + + + + + + + + + + + + + + + **90**
 Sarcoma, Metastatic, Skeletal Muscle **1**

Heart + + + + + + + + + + + + + + + **90**
 Atrium, Schwannoma Malignant **1**
 Endocardium, Schwannoma Malignant X **4**
 Myocardium, Schwannoma Malignant **1**

ENDOCRINE SYSTEM

Adrenal Cortex + + + + + + + + + + + + + + + **89**
 Carcinoma **2**

Adrenal Medulla + + + + + + + + + + + + + + + **90**
 Pheochromocytoma Benign X **12**
 Pheochromocytoma Malignant **1**
 Bilateral, Pheochromocytoma Benign **1**

Islets, Pancreatic + + + + + + + + + + + + + + + **79**
 Adenoma X X **7**
 Carcinoma **5**
 Carcinoma, Multiple **1**

Parathyroid Gland + + + M + + + + + + + + + + + **82**
 Adenoma **1**

Pituitary 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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 |
| HARLAN SPRAGUE DAWLEY RATS
MALE | 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 | 7 | 7 | 7 | 7 | 7 |
| 6.0W/kg(CDMA)chr | 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 | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | 0 | 0 | 3 | 4 | 6 | 6 | 6 | 8 | 0 | 0 | 4 | 5 | 5 | 6 | 6 | 6 | 6 |
| | 4 | 8 | 4 | 4 | 1 | 2 | 9 | 2 | 6 | 7 | 5 | 1 | 2 | 0 | 3 | 3 | 3 |
| * TOTALS | | | | | | | | | | | | | | | | | |

Schwannoma Malignant, Metastatic, Tissue Nos

1

Pars Distalis, Adenoma

X

11

Pars Distalis, Adenoma, Multiple

2

Thyroid Gland

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

85

C-cell, Adenoma

X X

11

C-cell, Carcinoma

X

4

Follicular Cell, Adenoma

1

GENERAL BODY SYSTEM

Tissue NOS

+

3

Schwannoma Malignant

1

Fat, Schwannoma Malignant

X

1

GENITAL SYSTEM

Epididymis

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

90

Penis

+

1

Preputial Gland

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

89

Sarcoma, Metastatic, Skeletal Muscle

1

Prostate

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

85

Adenoma

1

Sarcoma, Metastatic, Skeletal Muscle

1

Seminal Vesicle

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

90

Sarcoma, Metastatic, Skeletal Muscle

1

Testis

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

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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| | | | | | | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| HARLAN SPRAGUE DAWLEY RATS
MALE
6.0W/kg(CDMA)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 | |
| | | 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 | 7 | 7 | 7 | |
| | | 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 | |
| | | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | | 0 | 0 | 3 | 4 | 6 | 6 | 6 | 8 | 0 | 4 | 5 | 5 | 6 | 6 | |
| | | 4 | 8 | 4 | 4 | 1 | 2 | 9 | 2 | 6 | 7 | 5 | 2 | 0 | 3 | |
| * TOTALS | | | | | | | | | | | | | | | | |

Interstitial Cell, Adenoma

1

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | 1 |
| Lymph Node | + | | | | | | + | + | | | | | | | | 16 |
| Iliac, Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | 1 |
| Lumbar, Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | 1 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 85 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 82 |
| Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | 1 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 80 |
| Fibroadenoma | | | | | | | | | | | | | | | | 1 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Keratoacanthoma | X | | | | | | | | | | | | | X | | 4 |
| Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | 1 |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | 1 |
| Trichoepithelioma | | | | | | | | | | | | | | | | 1 |
| Sebaceous Gland, 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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 |
|--|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| HARLAN SPRAGUE DAWLEY RATS
MALE | 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 | 7 | 7 | 7 | | | |
| 6.0W/kg(CDMA)chr | 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 |
| ANIMAL ID | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | 0 | 0 | 3 | 4 | 6 | 6 | 6 | 8 | 0 | 0 | 4 | 5 | 5 | 6 | 6 | 0 | 0 | 3 |
| | 4 | 8 | 4 | 4 | 1 | 2 | 9 | 2 | 6 | 7 | 5 | 1 | 2 | 0 | 3 | | | |
| | * TOTALS | | | | | | | | | | | | | | | | | |
| Trigeminal Ganglion | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 83 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Carcinoma, Metastatic, Kidney | | | | | | | | | | | | | | | | | | 1 |
| Hepatocellular Carcinoma, Metastatic, Liver | | | | | | | | | | | | | | | | | | 1 |
| Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | | | | | | | 1 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 87 |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | | | 1 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 72 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 72 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | | | 1 |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | 1 |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | 1 |
| Adenoma | | | | | | | | | | | | | | | | | | 1 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 87 |
| Nephroblastoma | | | | | | | | | | | | | | | | | | 1 |
| Pelvis, 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| HARLAN SPRAGUE DAWLEY RATS FEMALE
0.0W/kg(CDMA)chr | DAY ON TEST | 0622 | 0623 | 0633 | 0644 | 0655 | 0666 | 0677 | 0688 | 0699 | 0700 | 0711 | 0722 | 0733 | 0744 | 0755 | 0766 | 0777 | 0788 | 0799 | 0800 | 0811 | 0822 | 0833 | 0844 | 0855 | 0866 | 0877 | 0888 | 0899 |
| | ANIMAL ID | 00690 | 00776 | 00867 | 00958 | 01049 | 01140 | 01231 | 01322 | 01413 | 01504 | 01595 | 01686 | 01777 | 01868 | 01959 | 02050 | 02141 | 02232 | 02323 | 02414 | 02505 | 02596 | 02687 | 02778 | 02869 | 02960 | 03051 | 03142 | 03233 |

females (cont...)

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

X

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain
Carcinoma, Metastatic, Pituitary Gland
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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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 |
|--|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS FEMALE | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 0.0W/kg(CDMA)chr | 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 |
| 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 | 6 | 7 | 7 | 8 | 9 | 1 | 2 | 5 | 5 |
| | | 1 | 5 | 7 | 2 | 1 | 5 | 0 | 8 | 5 | 9 | 0 | 3 | 4 | 2 | 4 | 4 |
| * TOTALS | | | | | | | | | | | | | | | | | |

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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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 FEMALE | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0.0W/kg(CDMA)chr | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 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 |
| | 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 |
| | 1 | 5 | 7 | 2 | 1 | 5 | 0 | 8 | 5 | 9 | 0 | 3 | 4 | 2 | 4 | 4 |
| | * TOTALS | | | | | | | | | | | | | | | |

Sarcoma 1

Stomach, Glandular 90

Sarcoma, Metastatic, Stomach, Forestomach 1

Tongue 1

Squamous Cell Carcinoma 1

CARDIOVASCULAR SYSTEM

Aorta 90

Heart 90

ENDOCRINE SYSTEM

Adrenal Cortex 90

Adenoma 1

Carcinoma 1

Adrenal Medulla 86

Pheochromocytoma Benign 1

Islets, Pancreatic 90

Adenoma 5

Carcinoma 2

Parathyroid Gland 87

Pituitary Gland 90

Pars Distalis, Adenoma 42

Pars Distalis, Adenoma, Multiple 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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 FEMALE | 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 | | |
| 0.0W/kg(CDMA)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 | 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 | |
| | 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 | 4 | | * TOTALS |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | | | 1 |
| Thyroid Gland | | | | | | | | | | | | | | | | | 90 |
| C-cell, Adenoma | | | | | | | | | | | | | | | | | 6 |
| Follicular Cell, Carcinoma | | | | | | | | | | | | | | | | | 1 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | | 8 |
| Abdominal, Schwannoma Malignant | | | | | | | | | | | | | | | | | 1 |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | |
| Clitoral Gland | | | | | | | | | | | | | | | | | 87 |
| Ovary | | | | | | | | | | | | | | | | | 90 |
| Cystadenoma | | | | | | | | | | | | | | | | | 1 |
| Granulosa Cell Tumor Benign | | | | | | | | | | | | | | | | | 1 |
| Granulosa Cell Tumor Malignant | | | | | | | | | | | | | | | | | 2 |
| Sertoli Cell Tumor Benign | | | | | | | | | | | | | | | | | 1 |
| Oviduct | | | | | | | | | | | | | | | | | 1 |
| Uterus | | | | | | | | | | | | | | | | | 90 |
| Adenocarcinoma | | | | | | | | | | | | | | | | | 3 |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | 2 |
| Polyp Stromal | | | | | | | | | | | | | | | | | 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 - 56

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:31:21

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

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 |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| HARLAN SPRAGUE DAWLEY RATS
FEMALE | 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 |
| 0.0W/kg(CDMA)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 | 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 |
| | 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 |
| * TOTALS | | | | | | | | | | | | | | | | |

| | |
|--|----------|
| Vagina | 2 |
| Schwannoma Malignant | 1 |
| Schwannoma Malignant, Metastatic, Uterus | 1 |

HEMATOPOIETIC SYSTEM

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

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenocarcinoma | | | | | | | | | | | | | X | | | | 9 |
| Adenocarcinoma, Multiple | | | | | | | | | | | | | | | | | 1 |
| Adenoma | | | | | | | | | | | | | | X | | | 4 |
| Adenoma, Multiple | | | | | | | | | | | | | | | | | 4 |
| Fibroadenoma | X | | X | X | | X | | X | X | | | X | X | | | | 34 |
| Fibroadenoma, Multiple | | X | | | X | | | | | X | | | | X | X | | 29 |
| 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| | | | | | | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0.0W/kg(CDMA)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 | 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 | |
| | | | | | | | | | | | | | | | | * TOTALS |

| | | |
|---|---|---|
| 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
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BLANK .. Not examined microscopically

Experiment Number: 20105 - 56

Test Type: CHRONIC

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CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
0.0W/kg(CDMA)chr | DAY ON TEST | 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 | |
| | | 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 | |
| | | | | | | | | | | | | | | | | * TOTALS |
| Lung | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Nose | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Trachea | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | |
| Eye | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| Harderian Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | |
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Bilateral, Renal Tubule, Carcinoma | | | | | | | | | | | | | | | | 1 |
| Renal Tubule, Adenoma | | | | | | | | | | | | | | | | 1 |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| Leiomyosarcoma | | | | X | | | | | | | | | | | | 1 |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | 1 |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | |
| 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

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

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Endocardium, Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Myocardium, Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | X | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Malignant | | | | | | | | | X | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | X | |
| Parathyroid Gland | + | + | + | I | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | M | M | + |
| Pituitary Gland | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Adenoma | | | | | | | | | | | | | X | | X | | | | | | X | X | X | X |
| Pars Distalis, Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Adenoma | | | | | | | | | | | | | X | | | | | | | | | | X | |
| C-cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | X |
| Follicular Cell, 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

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Peripheral Nerve, Sciatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trigeminal Ganglion | + | + | I | + | + | + | M | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Mammary Gland | | | X | | X | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

URINARY 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
FEMALE
1.5W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0660 | 0674 | 0675 | 0676 | 0679 | 0699 | 0699 | 0699 | 0699 | 0699 | 0706 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | | |
| | 0152 | 0114 | 0114 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | 0111 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Endocardium, Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Myocardium, Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | | | | | | X | X | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | X | | | | | X |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | | | X | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | X | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | M | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Adenoma | X | X | X | X | | X | X | | | X | | | X | | X | | X | X | X | X | | | X | X | X |
| Pars Distalis, Adenoma, Multiple | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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
FEMALE
1.5W/kg(CDMA)chr | 4 | 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 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | 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 | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | | |
| | 5 | 5 | 6 | 7 | 8 | 8 | 1 | 2 | 4 | 6 | 9 | 1 | 2 | 2 | 3 | 3 | | |
| | 0 | 7 | 0 | 7 | 1 | 9 | 7 | 5 | 2 | 2 | 2 | 5 | 6 | 8 | 1 | 1 | | |
| | | | | | | | | | | | | | | | | * TOTALS | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 82 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 89 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 88 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 86 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 83 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 81 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Hepatocellular Adenoma | | | | | | X | | | | | | | | | | | 2 |
| Mesentery | | | | | | | | | | | | | | | | | 3 |
| Oral Mucosa | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |

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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

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

| | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Endocardium, Schwannoma Malignant | | | | | | | | | | | | | | | | 1 |
| Myocardium, Schwannoma Malignant | | | | | | | | | | | | | | | | 1 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenoma | | | | | | | | | | | | | | | | 2 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Pheochromocytoma Benign | | | | | | | | | | X | | | | | | 7 |
| Pheochromocytoma Malignant | | | | | X | | | | | | | | | | | 2 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Adenoma | | | | | | | | | | | | | X | | | 4 |
| Carcinoma | | | | X | | | | | | | | | | | | 2 |
| Parathyroid Gland | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | 80 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Pars Distalis, Adenoma | | X | X | X | | X | | | X | | | | X | X | | 40 |
| Pars Distalis, Adenoma, Multiple | | | | | | | | | | | | | | | | 1 |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| C-cell, Adenoma | | | | | | | | | | | X | | | | | 9 |
| C-cell, Carcinoma | | | | | X | | | | | | | | | | | 3 |
| Follicular Cell, Carcinoma | | | | | | | | X | | | | | | | | 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| | | | | | | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)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 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | | 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 | |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 4 | 4 | 5 | 5 | 5 | 5 | |
| | | 5 | 5 | 6 | 7 | 8 | 8 | 1 | 2 | 4 | 6 | 9 | 1 | 2 | 2 | |
| | | 0 | 7 | 0 | 7 | 1 | 9 | 7 | 5 | 2 | 2 | 2 | 5 | 6 | 8 | |
| | | | | | | | | | | | | | | | | * TOTALS |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|
| Tissue NOS | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | 11 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 88 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Cystadenocarcinoma | | | | | | | | | | | | | | | | | 1 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Carcinoma | | | | | | | | | | | | | | | | | 1 |
| Polyp, Glandular | | | | | X | | | | | | | | | | | | 2 |
| Polyp Stromal | | | | | | | X | | | X | | | | | | | 11 |
| Polyp Stromal, Multiple | | | | | | | | | | | | | | | | | 4 |
| Vagina | | | | | | | | | | | | | | | | | 1 |
| Polyp, Stromal | | | | | | | | | | | | | | | | | 1 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Lymph Node | | | | | | | | | | + | | | | | | | 8 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| | | | | | | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)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 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | | 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 | |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 4 | 4 | 5 | 5 | 5 | 5 | |
| | | 5 | 5 | 6 | 7 | 8 | 8 | 1 | 2 | 4 | 6 | 9 | 1 | 2 | 2 | |
| | | 0 | 7 | 0 | 7 | 1 | 9 | 7 | 5 | 2 | 2 | 2 | 5 | 6 | 8 | |
| | | | | | | | | | | | | | | | | * TOTALS |

| | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 83 |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenocarcinoma | | | | | | | | | | | | | | | | 7 |
| Adenocarcinoma, Multiple | | | | | | | | | | | | | | | | 1 |
| Adenoma | | | X | | | | | | | | | | | | | 4 |
| Fibroadenoma | | | X | X | X | | | X | | | X | X | | | | 40 |
| Fibroadenoma, Multiple | | X | | | | X | | | X | | X | | | | X | 21 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Keratoacanthoma | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Squamous Cell Carcinoma | | | | | | | | | | | | | | | | 2 |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Glioma Malignant | | | | | | | | | | | | | | | | 3 |
| Neuroblastoma | | | | | | | | | | | | | | | | 1 |
| Sarcoma | | | | | | | | | | | | | | | | 1 |
| Meninges, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | 1 |
| Pineal Gland, Pinealoma | | | | | | | | | | | | | | | | 1 |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 84 |

* .. 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
1.5W/kg(CDMA)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 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | |
| | | 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 | |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 5 | |
| | | 5 | 5 | 6 | 7 | 8 | 8 | 1 | 2 | 4 | 6 | 9 | 1 | 2 | 2 | |
| | | 0 | 7 | 0 | 7 | 1 | 9 | 7 | 5 | 2 | 2 | 5 | 6 | 8 | 1 | |
| | | * TOTALS | | | | | | | | | | | | | | |
| Peripheral Nerve, Sciatic | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Peripheral Nerve, Tibial | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Spinal Cord, Cervical | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Spinal Cord, Lumbar | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Spinal Cord, Thoracic | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Trigeminal Ganglion | | + | + | + | + | M | + | + | + | + | + | + | + | + | + | 77 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | |
| Lung | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenocarcinoma, Metastatic, Mammary Gland | | | | | | | | | | | | | | | | 2 |
| Carcinoma, Metastatic, Thyroid Gland | | | | | | | X | | | | | | | | | 1 |
| Carcinoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | 1 |
| Nose | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Trachea | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | |
| Eye | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 86 |
| Sarcoma | | | | | | | | X | | | | | | | | 1 |
| Harderian Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| URINARY 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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 | |
| HARLAN SPRAGUE DAWLEY RATS | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| FEMALE | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | |
| 1.5W/kg(CDMA)chr | | | | | | | | | | | | | | | | |
| 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 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 5 | 5 | |
| | 5 | 5 | 6 | 7 | 8 | 8 | 1 | 2 | 4 | 6 | 9 | 1 | 2 | 2 | 3 | |
| | 0 | 7 | 0 | 7 | 1 | 9 | 7 | 5 | 2 | 2 | 2 | 5 | 6 | 8 | 1 | |
| | * TOTALS | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | 3 |
| Lymphoma Malignant | | | | | | | | 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 - 56

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 01/02/2018

Test Type: CHRONIC

Cell Phone Radiation: CDMA

Time Report Requested: 13:31:21

Route: Whole Body Exposure

CAS Number: CELLPRADCDMA

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

Species/Strain: RATS/HSD

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | DAY ON TEST | 0656 | 0662 | 0663 | 0669 | 0664 | 0668 | 0669 | 0672 | 0674 | 0677 | 0671 | 0671 | 0671 | 0674 | 0678 | 0677 | 0677 | 0677 | 0677 | 0677 | 0678 | 0678 | 0678 | 0678 | females
(cont...) |
| | ANIMAL ID | 0171 | 0177 | 0177 | 0166 | 0166 | 0166 | 0167 | 0166 | 0166 | 0177 | 0177 | 0177 | 0177 | 0177 | 0166 | 0166 | 0177 | 0177 | 0177 | 0177 | 0166 | 0166 | 0166 | 0166 | |
| | | 148 | 240 | 067 | 679 | 791 | 701 | 699 | 699 | 989 | 823 | 351 | 108 | 057 | 181 | 047 | 070 | 227 | 270 | 772 | 775 | 588 | 595 | 773 | 777 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Adrenal Cortex | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | + | | | | + | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)chr | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | females
(cont...) | | |
|--|-------------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|------|
| | 0656 | 0662 | 0663 | 0669 | 0674 | 0678 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | | 0679 | 0679 |
| | 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 | |
| | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | |
| | 1 | 4 | 0 | 6 | 7 | 9 | 7 | 0 | 9 | 8 | 2 | 3 | 5 | 1 | 0 | 5 | 8 | 0 | 2 | 2 | 7 | 5 | 5 | 7 | |
| | 8 | 2 | 0 | 7 | 9 | 1 | 1 | 6 | 9 | 9 | 2 | 9 | 1 | 1 | 8 | 7 | 1 | 4 | 0 | 7 | 2 | 8 | 3 | 7 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Mammary Gland | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | X | | | | | | | | | | | | | X | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | I | + | + | + | + | + |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Complex | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | X | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Adenoma | | X | X | | | | | X | | X | X | | X | X | X | | | X | | X | | | X | |
| Pars Distalis, Carcinoma | | | | | | | X | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Bilateral, C-cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Adenoma | | | | | | | X | | | | | | | | | | | | | | | | | |
| C-cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| | | | | | | | | | | | | | | | | |
|--|-------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 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 | |
| | | 7 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | |
| | | 5 | 5 | 6 | 6 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 9 | 3 | |
| | | 4 | 8 | 0 | 1 | 2 | 8 | 9 | 5 | 8 | 0 | 2 | 0 | 4 | 3 | |
| | | * TOTALS | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 86 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 87 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 87 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 84 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 84 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Carcinoma, Metastatic, Adrenal Cortex | | | | | | | | | | | | | | | | 1 |
| Hepatocellular Adenoma | | | | | | | | | | | | | | X | | 2 |
| Mesentery | | | | | | | | | | | | | | | | 11 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 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 | |
| | | 7 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | |
| | | 5 | 5 | 6 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 9 | 3 | 4 | |
| | | 4 | 8 | 0 | 1 | 2 | 8 | 9 | 5 | 8 | 4 | 0 | 0 | 4 | 3 | |
| | | | | | | | | | | | | | | | | * TOTALS |
| Aorta | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Heart | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenocarcinoma, Metastatic, Mammary Gland | | | | | | | | | | | | | | | | 1 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | |
| Adrenal Cortex | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenoma | | | | | | | | | | | | | | | | 2 |
| Carcinoma | | | | | | | | | | | | | | | | 1 |
| Adrenal Medulla | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 87 |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | X | 3 |
| Pheochromocytoma Complex | | | | | | | | | | | | | | | | 1 |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | 1 |
| Islets, Pancreatic | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenoma | | | | | | X | | | | | | | | | | 5 |
| Parathyroid Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 85 |
| Pituitary Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Pars Distalis, Adenoma | | X | | | X | | | | | X | | | | | X | 30 |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | | 1 |
| Thyroid Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Bilateral, C-cell, Carcinoma | | | | | | | | | | | | | | | | 1 |
| C-cell, Adenoma | | | | | | | | X | | | | | | | | 3 |
| C-cell, Carcinoma | | | | | | | | | | X | | | | | | 2 |
| Follicular Cell, 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| | | | | | | | | | | | | | | | | | |
|--|-------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)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 | |
| | | 7 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | |
| | | 5 | 5 | 6 | 6 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 9 | 3 | 4 | |
| | | 4 | 8 | 0 | 1 | 2 | 8 | 9 | 5 | 8 | 0 | 2 | 0 | 0 | 4 | 3 | |
| | | * TOTALS | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | |
|------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|
| Tissue NOS | | | | | | | | | | | | | | | | | 8 |
| Abdominal, Fat, Lipoma | | | | | | | | | | | | | | | | | 1 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Carcinoma | | | | | | | | | | | | | | | | | 1 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Rete Ovarii, Adenoma | | | | | | | | | | | | | | | | | 1 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenoma | | | | | | | | | | | | | | | | | 1 |
| Leiomyosarcoma | | | | | | | | | | | | | | | | | 2 |
| Polyp, Glandular | | | | | | | | | | | | | | | | | 2 |
| Polyp Stromal | | | | | | | | | | | X | | | | | | 9 |
| Polyp Stromal, Multiple | | | | | | | | | | | | | X | | | | 4 |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | 1 |
| Cervix, Polyp Stromal | | | | | | | | | | | | | | | | | 1 |
| Cervix, Schwannoma Malignant | | | | | | | | | | | | | | | | | 2 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymph Node | | | | | | | | + | + | | | | | | | + | 11 |
| 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)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 | | |
| | | 7 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | | |
| | | 5 | 5 | 6 | 6 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 9 | 3 | 4 | | |
| | | 4 | 8 | 0 | 1 | 2 | 8 | 9 | 5 | 8 | 0 | 2 | 0 | 0 | 4 | 3 | | |
| | | | | | | | | | | | | | | | | * TOTALS | | |

| | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------|
| Peripheral Nerve, Tibial | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 89 |
| Spinal Cord, Cervical | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 89 |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Trigeminal Ganglion | + | M | + | + | + | + | M | + | + | + | + | + | + | + | + | | 81 |
| Carcinoma, Metastatic, Pituitary Gland | | | | | | | | | | | | | | | | | 1 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Adenocarcinoma, Metastatic, Mammary Gland | | | | | | | | | | | | | | | | | 1 |
| Carcinoma, Metastatic, Adrenal Cortex | | | | | | | | | | | | | | | | | 1 |
| Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | 1 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 90 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 89 |
| Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | 1 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-----------|
| Ear | | | | | | | | | | | | | | | | | 1 |
| Neural Crest Tumor | | | | | | | | | | | | | | | | | 1 |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 88 |
| Harderian 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3.0W/kg(CDMA)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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 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 | |
| | | 7 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | |
| | | 5 | 5 | 6 | 6 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 9 | 3 | |
| | | 4 | 8 | 0 | 1 | 2 | 8 | 9 | 5 | 8 | 0 | 2 | 0 | 4 | 3 | |
| | | | | | | | | | | | | | | | | * TOTALS |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Bilateral, Renal Tubule, Carcinoma | | | | | | | | | | | | | | | | 2 |
| Renal Tubule, Adenoma | | | | | | | | | | | | | | | | 1 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | 2 |
| Lymphoma Malignant | | | | | | | | | | X | | | | | | 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | DAY ON TEST | 0305 | 0402 | 0523 | 0556 | 0557 | 0558 | 0559 | 0560 | 0561 | 0562 | 0563 | 0564 | 0565 | 0566 | 0567 | 0568 | 0569 | 0570 | 0571 | 0572 | 0573 | 0574 | 0575 | 0576 | 0577 | 0578 | 0579 | 0580 |
| | ANIMAL ID | 01937 | 01945 | 01953 | 01961 | 01969 | 01977 | 01985 | 01993 | 02001 | 02009 | 02017 | 02025 | 02033 | 02041 | 02049 | 02057 | 02065 | 02073 | 02081 | 02089 | 02097 | 02105 | 02113 | 02121 | 02129 | 02137 | 02145 | 02153 |

females
(cont...)

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex
Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla
Pheochromocytoma Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic
Adenoma
Carcinoma | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | M | + | + | + | + | + | + | + |
| Pituitary Gland
Pars Distalis, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thyroid Gland
Bilateral, C-cell, Adenoma
C-cell, Adenoma
C-cell, Carcinoma | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

GENERAL BODY 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | DAY ON TEST | 0305 | 0402 | 0522 | 0536 | 0550 | 0557 | 0559 | 0579 | 0599 | 0599 | 0603 | 0603 | 0606 | 0606 | 0606 | 0606 | 0607 | 0607 | 0609 | 0609 | 0609 | 0615 | 0616 | 0617 | 0617 | 0622 | 0622 | |
| | ANIMAL ID | 0197 | 0195 | 0195 | 0191 | 0190 | 0196 | 0192 | 0192 | 0198 | 0198 | 0199 | 0199 | 0198 | 0198 | 0199 | 0199 | 0199 | 0199 | 0199 | 0199 | 0199 | 0199 | 0199 | 0199 | 0199 | 0199 | 0199 | 0199 |
| | | 0 | 0 | 0 | 0 | 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
(cont...)

Harderian Gland

+ +

URINARY SYSTEM

Kidney

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

Urinary Bladder

+ +

SYSTEMIC LESIONS

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

Experiment Number: 20105 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| | | | | | | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)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 | |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 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 | |
| | | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 9 | 9 | 9 | 9 | |
| | | 6 | 8 | 9 | 0 | 0 | 0 | 2 | 3 | 3 | 4 | 8 | 3 | 4 | 6 | |
| | | 8 | 1 | 8 | 1 | 2 | 6 | 9 | 0 | 9 | 4 | 9 | 8 | 3 | 9 | |
| * TOTALS | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 80 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 85 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 83 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 79 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | 1 |
| Hepatocellular Carcinoma | | | | | | | | | | | | | | | | 1 |
| Mesentery | | | | | | | | | | | | | | | | 4 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Parotid Gland, Squamous Cell Carcinoma | | | | | | | | | | | | | | | | 1 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Sarcoma | | | | | | | | | | | | | | | | 1 |
| Squamous Cell Papilloma | | | | | | | | X | | | | | | | | 1 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |

* .. 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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 |
| HARLAN SPRAGUE DAWLEY RATS
FEMALE | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6.0W/kg(CDMA)chr | 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 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 6 | 8 | 9 | 0 | 0 | 0 | 2 | 3 | 3 | 4 | 8 | 3 | 4 | 6 | 7 | 7 | 0 |
| | 8 | 1 | 8 | 1 | 2 | 6 | 9 | 0 | 3 | 9 | 4 | 9 | 8 | 3 | 9 | 0 | |
| * TOTALS | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Aorta | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Blood Vessel | | | | | | | | | | | | | | | | | 1 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Endocardium, Schwannoma Malignant | | | | | | | | | | | | | | | | | 2 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenoma | | | | | | | | | | | | | | | | | 1 |
| Adrenal Medulla | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | 88 |
| Pheochromocytoma Benign | | | | | | | | | | X | | | | | | | 4 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 88 |
| Adenoma | | | | | | X | | | | | | | | | | | 4 |
| Carcinoma | | | | | | | | | | | | | | | | | 2 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | 85 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Pars Distalis, Adenoma | | X | X | | X | | | X | | | X | | X | X | X | | 40 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Bilateral, C-cell, Adenoma | | | | | | | | | | | | | | | | | 1 |
| C-cell, Adenoma | | | | | | | | | | | | | | | | | 7 |
| C-cell, Carcinoma | | | | | | | | | | | | | | | | | 2 |

GENERAL BODY 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| | | | | | | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS FEMALE
6.0W/kg(CDMA)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 |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 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 |
| | | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 9 | 9 | 9 | 9 | 9 |
| | | 6 | 8 | 9 | 0 | 0 | 0 | 2 | 3 | 3 | 4 | 8 | 3 | 4 | 6 | 7 |
| | | 8 | 1 | 8 | 1 | 2 | 6 | 9 | 0 | 9 | 4 | 9 | 8 | 3 | 9 | 0 |
| * TOTALS | | | | | | | | | | | | | | | | |

| | | |
|------------|---|----------|
| Tissue NOS | + | 6 |
|------------|---|----------|

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 86 |
| Schwannoma Malignant | | | | | | | | | | | | | | | X | 1 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Periovarian Tissue, Schwannoma Malignant | | | | | | | | | | | | | | | | 1 |
| Rete Ovarii, Adenoma | | | | | | | | | X | | | | | | | 1 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenocarcinoma | | | | X | | | | | | | X | | | | | 3 |
| Adenoma | | | | | | | | | | | | | | | | 1 |
| Polyp Stromal | X | | | | | | | | | | | | | | | 12 |
| Polyp Stromal, Multiple | | | | | X | | | | | | | | | | | 5 |
| Vagina | | | | | | | | | | | | | | | | 1 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymph Node | | | | | | | | | + | + | | | | + | + | 20 |
| Iliac, Adenocarcinoma, Metastatic, Mammary Gland | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 89 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | DAY ON TEST | | | | | | | | | | | | | | | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
| | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
5 | 0
7
4
5 | 0
7
4
5 | 0
7
4
5 | |
| ANIMAL ID | 0
1
8
6
8 | 0
1
8
8
1 | 0
1
8
9
8 | 0
1
9
0
1 | 0
1
9
0
2 | 0
1
9
0
6 | 0
1
9
2
9 | 0
1
9
3
0 | 0
1
9
3
9 | 0
1
9
3
9 | 0
1
9
4
4 | 0
1
8
8
9 | 0
1
9
9
8 | 0
1
9
9
3 | 0
1
9
6
9 | |

| | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 87 |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Adenocarcinoma | | | | | | | | | | | | | | | | 3 |
| Adenocarcinoma, Multiple | | | | | | | | | | | | | | | | 1 |
| Adenoma | | | | | | | | | | | | X | | | | 2 |
| Fibroadenoma | X | | X | | X | | | X | X | | X | X | X | | | 32 |
| Fibroadenoma, Multiple | | X | | X | X | X | | | | | | | | X | | 30 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Keratoacanthoma | | | | | | | | | | | | | | | | 1 |
| Squamous Cell Carcinoma, Metastatic,
Salivary Glands | | | | | | | | | | | | | | | | 1 |
| Subcutaneous Tissue, Fibroma | | | | | | | | | | | | | | | | 3 |
| Subcutaneous Tissue, Lipoma | | | | | | | | X | | | | | | | | 2 |
| Vulva, Squamous Cell Carcinoma | | | | | | X | | | | | | | | | | 1 |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 90 |
| Meningioma Malignant | | | | | | | | | | | | | | | | 1 |
| Meninges, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | 2 |
| Nerve Trigeminal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 84 |

* .. 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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

Lab: IIT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
6.0W/kg(CDMA)chr | 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 |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 |
| | | 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 |
| | | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 9 | 9 | 9 | 9 | 9 |
| | | 6 | 8 | 9 | 0 | 0 | 0 | 2 | 3 | 3 | 4 | 8 | 3 | 4 | 6 | 7 | 7 |
| | | 8 | 1 | 8 | 1 | 2 | 6 | 9 | 0 | 9 | 4 | 9 | 8 | 3 | 9 | 0 | 0 |
| | | * TOTALS | | | | | | | | | | | | | | | |

Squamous Cell Carcinoma, Metastatic, Salivary Glands 1

Peripheral Nerve, Sciatic + + + + + + + + + + + + + + + 90

Peripheral Nerve, Tibial + + + + + + + + + + + + + + + 89

Spinal Cord, Cervical + + + + + + + + + + + + + + + 90

Spinal Cord, Lumbar + + + + + + + + + + + + + + + 90

Spinal Cord, Thoracic + + + + + + + + + + + + + + + 90

Trigeminal Ganglion Squamous Cell Carcinoma, Metastatic, Salivary Glands + M + + + + + + + + + M + + + 75
1

RESPIRATORY SYSTEM

Lung Adenocarcinoma, Metastatic, Mammary Gland + + + + + + + + + + + + + + + 90
1

Nose + + + + + + + + + + + + + + + 89

Trachea + + + + + + + + + + + + + + + 89

SPECIAL SENSES SYSTEM

Ear Neural Crest Tumor 1
1

Eye + + + + + + + + + + + + + + + 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 - 56

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: CDMA

CAS Number: CELLPRADCDMA

Date Report Requested: 01/02/2018

Time Report Requested: 13:31:21

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 | | | |
| HARLAN SPRAGUE DAWLEY RATS FEMALE
6.0W/kg(CDMA)chr | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | |
| | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | | | |
| | 8 | 1 | 8 | 1 | 2 | 6 | 9 | 3 | 3 | 4 | 8 | 3 | 4 | 6 | 7 | 0 | | | | |
| | | | | | | | | | | | | | | | | | | | * TOTALS | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 90 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 89 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 90 | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 90 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | 3 | |

*** END OF REPORT ***

* .. 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