

**Experiment Number:** 20105 - 13

**Test Type:** 28-DAY

**Route:** Whole Body Exposure

**Species/Strain:** RATS/HSD

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

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 08/15/2017

**Time Report Requested:** 12:10:43

**First Dose M/F:** 12/09/10 / 12/09/10

**Lab:** IIT

Final1\_Rats (GSM)

**NTP Study Number:** C20105

**Lock Date:** 11/06/2014

**Cage Range:** ALL

**Date Range:** ALL

**Reasons For Removal:** 25021 TSAC 25020 NATD

**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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First Dose M/F: 12/09/10 / 12/09/10

Lab: IIT

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

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10

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

M .. Missing tissue  
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Lab: IIT

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

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Parathyroid Gland	+	+	+	+	+	+	M	M	M	+	<b>7</b>
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Preputial Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Prostate	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Testes	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**HEMATOPOIETIC SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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First Dose M/F: 12/09/10 / 12/09/10

Lab: IIT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	ANIMAL ID					
	2	2	2	2	2	3	3	3	3	3						
HARLAN SPRAGUE DAWLEY RATS MALE	9	9	9	9	9	0	0	0	0	0	2	2	2	9	0	* TOTALS
0W/kg(GSM)PreC	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
Bone Marrow	+	+	+	+	+	+	+	+	+	+						10
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+						10
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+						10
Spleen	+	+	+	+	+	+	+	+	+	+						10
Thymus	+	+	+	+	+	+	+	+	+	+						10
<b>INTEGUMENTARY SYSTEM</b>																
Mammary Gland	+	+	+	+	+	+	+	+	+	+						10
Skin	+	+	+	+	+	+	+	+	+	+						10
<b>MUSCULOSKELETAL SYSTEM</b>																
Bone	+	+	+	+	+	+	+	+	+	+						10
<b>NERVOUS SYSTEM</b>																
Brain	+	+	+	+	+	+	+	+	+	+						10
<b>RESPIRATORY SYSTEM</b>																
Lung	+	+	+	+	+	+	+	+	+	+						10
Nose	+	+	+	+	+	+	+	+	+	+						10
Trachea	+	+	+	+	+	+	+	+	+	+						10

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Lab: IIT

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

\* TOTALS

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+
Harderian Gland	+	+	+	+	+	+	+	+	+	+

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+
Urinary Bladder	+	+	+	+	+	+	+	+	+	+

**SYSTEMIC LESIONS**

Multiple Organ	+	+	+	+	+	+	+	+	+	+
----------------	---	---	---	---	---	---	---	---	---	---

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

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-----------

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>
-----------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-----------

Testes	+																			<b>1</b>
--------	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----------

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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Lab: IIT

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

\* TOTALS

**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	10
-------	---	---	---	---	---	---	---	---	---	---	----

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	10
--------	---	---	---	---	---	---	---	---	---	---	----

**SYSTEMIC LESIONS**

Multiple Organ	+	+	+	+	+	+	+	+	+	+	10
----------------	---	---	---	---	---	---	---	---	---	---	----

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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First Dose M/F: 12/09/10 / 12/09/10

Lab: IIT

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

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

Heart

+ + + + + + + + + +

10

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Preputial Gland

+ + + + + + + + + +

10

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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Lab: IIT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
<b>HARLAN SPRAGUE DAWLEY RATS</b>	2	2	2	2	2	2	3	3	3	3	3	
<b>MALE</b>	3	9	9	9	9	9	0	0	0	0	0	
<b>6W/kg(GSM)PreC</b>												
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	3	3	
	4	2	2	2	2	2	2	2	2	2	3	
	4	1	2	3	4	5	6	7	8	9	0	
	<b>* TOTALS</b>											
Brain		+	+	+	+	+	+	+	+	+	+	<b>10</b>
<b>RESPIRATORY SYSTEM</b>												
NONE												
<b>SPECIAL SENSES SYSTEM</b>												
NONE												
<b>URINARY SYSTEM</b>												
Kidney		+	+	+	+	+	+	+	+	+	+	<b>10</b>
<b>SYSTEMIC LESIONS</b>												
Multiple Organ		+	+	+	+	+	+	+	+	+	+	<b>10</b>

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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Lab: IIT

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

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

**CARDIOVASCULAR SYSTEM**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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Lab: IIT

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

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	<b>10</b>
Adrenal Medulla	+	+	+	+	+	+	+	+	+	<b>10</b>
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	<b>10</b>
Parathyroid Gland	+	+	+	+	+	+	+	+	+	<b>10</b>
Pituitary Gland	I	+	+	+	+	+	+	+	+	<b>9</b>
Thyroid Gland	+	+	+	+	+	+	+	+	+	<b>10</b>

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	<b>10</b>
Preputial Gland	+	+	+	+	+	+	+	+	+	<b>10</b>
Prostate	+	+	+	+	+	+	+	+	+	<b>10</b>
Seminal Vesicle	+	+	+	+	+	+	+	+	+	<b>10</b>
Testes	+	+	+	+	+	+	+	+	+	<b>10</b>

**HEMATOPOIETIC SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
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Experiment Number: 20105 - 13

Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: RATS/HSD

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

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/15/2017

Time Report Requested: 12:10:43

First Dose M/F: 12/09/10 / 12/09/10

Lab: IIT

HARLAN SPRAGUE DAWLEY RATS MALE 9W/kg(GSM)PreC	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	* TOTALS
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	3	3	3	3	3	
		9	9	9	9	9	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		3	3	3	3	3	3	3	3	3	3	
		8	8	8	8	8	8	8	8	8	9	
		1	2	3	4	5	6	7	8	9	0	
Bone Marrow		+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	10
Spleen		+	+	+	+	+	+	+	+	+	+	10
Thymus		+	+	+	+	+	+	+	+	+	+	10
<b>INTEGUMENTARY SYSTEM</b>												
Mammary Gland		+	+	+	+	+	+	+	+	+	+	10
Skin		+	+	+	+	+	+	+	+	+	+	10
<b>MUSCULOSKELETAL SYSTEM</b>												
Bone		+	+	+	+	+	+	+	+	+	+	10
<b>NERVOUS SYSTEM</b>												
Brain		+	+	+	+	+	+	+	+	+	+	10
<b>RESPIRATORY SYSTEM</b>												
Lung		+	+	+	+	+	+	+	+	+	+	10
Nose		+	+	+	+	+	+	+	+	+	+	10
Trachea		+	+	+	+	+	+	+	+	+	+	10

\* .. Total animals with tissue examined microscopically; 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 - 13

Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/15/2017

Time Report Requested: 12:10:43

First Dose M/F: 12/09/10 / 12/09/10

Lab: IIT

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

\* TOTALS

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	<b>10</b>
Harderian Gland	+	+	+	+	+	+	+	+	+	<b>10</b>

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	<b>10</b>
Urinary Bladder	+	+	+	+	+	+	+	+	+	<b>10</b>

**SYSTEMIC LESIONS**

Multiple Organ	+	+	+	+	+	+	+	+	+	<b>10</b>
----------------	---	---	---	---	---	---	---	---	---	-----------

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

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

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

Experiment Number: 20105 - 13

Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/15/2017

Time Report Requested: 12:10:43

First Dose M/F: 12/09/10 / 12/09/10

Lab: IIT

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

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10

\* .. Total animals with tissue examined microscopically; 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 - 13

Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/15/2017

Time Report Requested: 12:10:43

First Dose M/F: 12/09/10 / 12/09/10

Lab: IIT

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

\* TOTALS

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	10
Pituitary Gland	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	10

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Clitoral Gland	+	+	+	+	+	+	+	+	+	10
Ovary	+	+	+	+	+	+	+	+	+	10
Uterus	+	+	+	+	+	+	+	+	+	10

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	10

\* .. Total animals with tissue examined microscopically; 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 - 13

Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/15/2017

Time Report Requested: 12:10:43

First Dose M/F: 12/09/10 / 12/09/10

Lab: IIT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	ANIMAL ID		
	2	2	2	2	2	3	3	3	3	3			
<b>HARLAN SPRAGUE DAWLEY RATS FEMALE</b>	9	9	9	9	9	0	0	0	0	0			
<b>0W/kg(GSM)PreC</b>	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0			
	2	2	2	2	2	2	2	2	2	2			
	3	3	3	3	3	3	3	3	3	3			
	1	2	3	4	5	6	7	8	9	0			<b>* TOTALS</b>
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+			<b>10</b>
Spleen	+	+	+	+	+	+	+	+	+	+			<b>10</b>
Thymus	+	+	+	+	+	+	+	+	+	+			<b>10</b>
<b>INTEGUMENTARY SYSTEM</b>													
Mammary Gland	+	+	+	+	+	+	+	+	+	+			<b>10</b>
Skin	+	+	+	+	+	+	+	+	+	+			<b>10</b>
<b>MUSCULOSKELETAL SYSTEM</b>													
Bone	+	+	+	+	+	+	+	+	+	+			<b>10</b>
<b>NERVOUS SYSTEM</b>													
Brain	+	+	+	+	+	+	+	+	+	+			<b>10</b>
<b>RESPIRATORY SYSTEM</b>													
Lung	+	+	+	+	+	+	+	+	+	+			<b>10</b>
Nose	+	+	+	+	+	+	+	+	+	+			<b>10</b>
Trachea	+	+	+	+	+	+	+	+	+	+			<b>10</b>
<b>SPECIAL SENSES SYSTEM</b>													
Eye	+	+	+	+	+	+	+	+	+	+			<b>10</b>

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

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



Experiment Number: 20105 - 13

Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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CAS Number: CELLPRADGSM

Date Report Requested: 08/15/2017

Time Report Requested: 12:10:43

First Dose M/F: 12/09/10 / 12/09/10

Lab: IIT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	ANIMAL ID		
	0	0	0	0	0	0	0	0	0	0			
<b>HARLAN SPRAGUE DAWLEY RATS</b>	2	2	2	2	2	3	3	3	3	3			
<b>FEMALE</b>	9	9	9	9	9	0	0	0	0	0			
<b>0W/kg(GSM)PreC</b>	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0			
	2	2	2	2	2	2	2	2	2	2			
	3	3	3	3	3	3	3	3	3	4			
	1	2	3	4	5	6	7	8	9	0			<b>* TOTALS</b>
Harderian Gland	+	+	+	+	+	+	+	+	+	+			<b>10</b>
<b>URINARY SYSTEM</b>													
Kidney	+	+	+	+	+	+	+	+	+	+			<b>10</b>
Urinary Bladder	+	+	+	+	+	+	+	+	+	+			<b>10</b>
<b>SYSTEMIC LESIONS</b>													
Multiple Organ	+	+	+	+	+	+	+	+	+	+			<b>10</b>

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

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

Experiment Number: 20105 - 13

Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/15/2017

Time Report Requested: 12:10:43

First Dose M/F: 12/09/10 / 12/09/10

Lab: IIT

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

ALIMENTARY SYSTEM

Liver + 1

CARDIOVASCULAR SYSTEM

Heart + + + + + + + + + + 10

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland + + + + + + + + + + 10

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

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

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

Experiment Number: 20105 - 13

Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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Time Report Requested: 12:10:43

First Dose M/F: 12/09/10 / 12/09/10

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	
<b>HARLAN SPRAGUE DAWLEY RATS</b>	2	2	2	2	2	3	3	3	3	3	
<b>FEMALE</b>	9	9	9	9	9	0	0	0	0	0	
<b>3W/kg(GSM)PreC</b>											
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	3	
	9	9	9	9	9	9	9	9	9	0	
	1	2	3	4	5	6	7	8	9	0	
	<b>* TOTALS</b>										
Brain	+	+	+	+	+	+	+	+	+	+	<b>10</b>
<b>RESPIRATORY SYSTEM</b>											
NONE											
<b>SPECIAL SENSES SYSTEM</b>											
NONE											
<b>URINARY SYSTEM</b>											
Kidney	+	+	+	+	+	+	+	+	+	+	<b>10</b>
<b>SYSTEMIC LESIONS</b>											
Multiple Organ	+	+	+	+	+	+	+	+	+	+	<b>10</b>

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

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

Experiment Number: 20105 - 13

Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

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Time Report Requested: 12:10:43

First Dose M/F: 12/09/10 / 12/09/10

Lab: IIT

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

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

Heart

+ + + + + + + + + +

10

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland

M + + + + + + + + +

9

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

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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First Dose M/F: 12/09/10 / 12/09/10

Lab: IIT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	ANIMAL ID		
	0	0	0	0	0	0	0	0	0	0			
<b>HARLAN SPRAGUE DAWLEY RATS</b>	2	2	2	2	2	3	3	3	3	3			
<b>FEMALE</b>	9	9	9	9	9	0	0	0	0	0			
<b>6W/kg(GSM)PreC</b>	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	3	3	3	3	3			
	5	5	5	5	5	5	5	5	5	6			
	1	2	3	4	5	6	7	8	9	0			<b>* TOTALS</b>
Brain	+	+	+	+	+	+	+	+	+	+			<b>10</b>
<b>RESPIRATORY SYSTEM</b>													
NONE													
<b>SPECIAL SENSES SYSTEM</b>													
NONE													
<b>URINARY SYSTEM</b>													
Kidney	+	+	+	+	+	+	+	+	+	+			<b>10</b>
<b>SYSTEMIC LESIONS</b>													
Multiple Organ	+	+	+	+	+	+	+	+	+	+			<b>10</b>

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

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

Experiment Number: 20105 - 13

Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/15/2017

Time Report Requested: 12:10:43

First Dose M/F: 12/09/10 / 12/09/10

Lab: IIT

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

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Pancreas	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Salivary Glands	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**CARDIOVASCULAR SYSTEM**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Heart	+	+	+	+	+	+	+	+	+	+	<b>10</b>

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

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

Experiment Number: 20105 - 13

Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/15/2017

Time Report Requested: 12:10:43

First Dose M/F: 12/09/10 / 12/09/10

Lab: IIT

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

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Ovary	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Uterus	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	<b>10</b>

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First Dose M/F: 12/09/10 / 12/09/10

Lab: IIT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	4	4	4	4	4	4	4	4	4	4	
	1	1	1	1	1	1	1	1	1	2	
	1	2	3	4	5	6	7	8	9	0	* TOTALS
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10
<b>INTEGUMENTARY SYSTEM</b>											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10
<b>MUSCULOSKELETAL SYSTEM</b>											
Bone	+	+	+	+	+	+	+	+	+	+	10
<b>NERVOUS SYSTEM</b>											
Brain	+	+	+	+	+	+	+	+	+	+	10
<b>RESPIRATORY SYSTEM</b>											
Lung	+	+	+	+	+	+	+	+	+	+	10
Nose	+	+	+	+	+	+	+	+	+	+	10
Trachea	+	+	+	+	+	+	+	+	+	+	10
<b>SPECIAL SENSES SYSTEM</b>											
Eye	+	+	+	+	+	+	+	+	+	+	10

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
<b>HARLAN SPRAGUE DAWLEY RATS</b>	2	2	2	2	2	3	3	3	3	3	
<b>FEMALE</b>	9	9	9	9	9	0	0	0	0	0	
<b>9W/kg(GSM)PreC</b>											
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	4	4	4	4	4	4	4	4	4	4	
	1	1	1	1	1	1	1	1	1	2	
	1	2	3	4	5	6	7	8	9	0	
	<b>* TOTALS</b>										
Harderian Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
<b>URINARY SYSTEM</b>											
Kidney	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	<b>10</b>
<b>SYSTEMIC LESIONS</b>											
Multiple Organ	+	+	+	+	+	+	+	+	+	+	<b>10</b>

\*\*\* END OF REPORT \*\*\*

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