

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM  
**CAS Number:** CELLPRADGSM

**Date Report Requested:** 01/02/2018  
**Time Report Requested:** 12:00:01  
**First Dose M/F:** 09/16/12 / 09/16/12  
**Lab:** IIT

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

**NTP Study Number:** C20105  
**Lock Date:** 12/29/2015  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** 25017 SSAC  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.2.3\_002  
**PWG Approval Date:** NONE

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 505

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 0.0W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-505

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                             |
|----------------------------|---------------------------|-----------------------------|-----------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Aorta                     | * Bone                      |
| * Bone Marrow              | * Brain                   | * Epididymis                | * Esophagus                 |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     | * Lung                      |
| * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal          |
| * Nose                     | * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic |
| * Peripheral Nerve, Tibial | * Pituitary Gland         | * Preputial Gland           | * Prostate                  |
| * Salivary Glands          | * Seminal Vesicle         | Skeletal Muscle             | * Skin                      |
| * Spinal Cord, Cervical    | * Spinal Cord, Lumbar     | * Spinal Cord, Thoracic     | * Spleen                    |
| * Stomach, Forestomach     | * Stomach, Glandular      | Testis                      | * Thymus                    |
| * Thyroid Gland            | * Trachea                 | Trigeminal Ganglion         | * Urinary Bladder           |

**OBSERVATIONS**

- |          |             |                       |
|----------|-------------|-----------------------|
| * Kidney | Nephropathy | Chronicprogr, Minimal |
|----------|-------------|-----------------------|

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 508

TRT#: 1

SEX: Male

DAY ON TEST: 94

DOSE: 0.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-508

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                             |
|----------------------------|---------------------------|-----------------------------|-----------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Aorta                     | * Bone                      |
| * Bone Marrow              | * Brain                   | * Epididymis                | * Esophagus                 |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     | * Lung                      |
| * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal          |
| * Nose                     | * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic |
| * Peripheral Nerve, Tibial | * Pituitary Gland         | * Prostate                  | * Salivary Glands           |
| * Seminal Vesicle          | Skeletal Muscle           | * Skin                      | * Spinal Cord, Cervical     |
| * Spinal Cord, Lumbar      | * Spinal Cord, Thoracic   | * Spleen                    | * Stomach, Forestomach      |
| * Stomach, Glandular       | Testis                    | * Thyroid Gland             | * Trachea                   |
| Trigeminal Ganglion        | * Urinary Bladder         |                             |                             |

OBSERVATIONS

- |                   |              |                       |
|-------------------|--------------|-----------------------|
| * Kidney          | Nephropathy  | Chronicprogr, Minimal |
| * Preputial Gland | Inflammation | Chronic Active, Mild  |
| * Thymus          | Hemorrhage   | Minimal               |

Note: TGL 1-6

[ Hemorrhage TGLs = 1-6 ]

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 525

TRT#: 1

SEX: Male

DAY ON TEST: 94

DOSE: 0.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-525

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                            |
|----------------------------|---------------------------|-----------------------------|----------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Aorta                     | * Bone                     |
| * Bone Marrow              | * Brain                   | * Epididymis                | * Esophagus                |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum   |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum   |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     | * Lung                     |
| * Lymph Node, Mesenteric   | * Mammary Gland           | * Nerve Trigeminal          | * Nose                     |
| * Pancreas                 | * Parathyroid Gland       | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial |
| * Pituitary Gland          | * Prostate                | * Salivary Glands           | * Seminal Vesicle          |
| Skeletal Muscle            | * Skin                    | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar      |
| * Spinal Cord, Thoracic    | * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular       |
| Testis                     | * Thymus                  | * Thyroid Gland             | * Trachea                  |
| Trigeminal Ganglion        | * Urinary Bladder         |                             |                            |

OBSERVATIONS

- |                          |              |                         |
|--------------------------|--------------|-------------------------|
| * Kidney                 | Nephropathy  | Chronicprogr, Minimal   |
| * Lymph Node, Mandibular | Hemorrhage   | Minimal                 |
| * Preputial Gland        | Inflammation | Chronic Active, Minimal |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 528

TRT#: 1

SEX: Male

DAY ON TEST: 94

DOSE: 0.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-528

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                             |                            |
|---------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Aorta                     | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis                | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lung                      | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal          | * Nose                     |
| * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial |
| * Pituitary Gland         | * Preputial Gland           | * Prostate                  | * Salivary Glands          |
| * Seminal Vesicle         | Skeletal Muscle             | * Skin                      | * Spinal Cord, Cervical    |
| * Spinal Cord, Lumbar     | * Spinal Cord, Thoracic     | * Spleen                    | * Stomach, Forestomach     |
| * Stomach, Glandular      | Testis                      | * Thymus                    | * Thyroid Gland            |
| * Trachea                 | Trigeminal Ganglion         | * Urinary Bladder           |                            |

OBSERVATIONS

- |          |                |                       |
|----------|----------------|-----------------------|
| * Heart  | Cardiomyopathy | Minimal               |
| * Kidney | Nephropathy    | Chronicprogr, Minimal |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 531

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 0.0W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-531

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                            |                             |                          |
|-----------------------------|----------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex            | * Adrenal Medulla          | * Aorta                     | * Bone                   |
| * Bone Marrow               | * Brain                    | * Epididymis                | * Esophagus              |
| * Eye                       | * Harderian Gland          | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum  | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum  | * Islets, Pancreatic       | * Kidney                    | * Liver                  |
| * Lung                      | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric    | * Mammary Gland          |
| * Nerve Trigeminal          | * Nose                     | * Pancreas                  | * Parathyroid Gland      |
| * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial | * Pituitary Gland           | * Prostate               |
| * Salivary Glands           | * Seminal Vesicle          | Skeletal Muscle             | * Skin                   |
| * Spinal Cord, Cervical     | * Spinal Cord, Lumbar      | * Spinal Cord, Thoracic     | * Spleen                 |
| * Stomach, Forestomach      | * Stomach, Glandular       | Testis                      | * Thymus                 |
| * Thyroid Gland             | * Trachea                  | Trigeminal Ganglion         | * Urinary Bladder        |

**OBSERVATIONS**

- \* Preputial Gland

Note: Abscess formation

Inflammation

Chronic Active, Moderate

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 532

TRT#: 1

SEX: Male

DAY ON TEST: 94

DOSE: 0.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-532

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                             |
|----------------------------|---------------------------|-----------------------------|-----------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Aorta                     | * Bone                      |
| * Bone Marrow              | * Brain                   | * Epididymis                | * Esophagus                 |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     | * Lung                      |
| * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal          |
| * Nose                     | * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic |
| * Peripheral Nerve, Tibial | * Pituitary Gland         | * Prostate                  | * Salivary Glands           |
| * Seminal Vesicle          | Skeletal Muscle           | * Skin                      | * Spinal Cord, Cervical     |
| * Spinal Cord, Lumbar      | * Spinal Cord, Thoracic   | * Spleen                    | * Stomach, Forestomach      |
| * Stomach, Glandular       | Testis                    | * Thyroid Gland             | * Trachea                   |
| Trigeminal Ganglion        | * Urinary Bladder         |                             |                             |

OBSERVATIONS

- |                   |              |                         |
|-------------------|--------------|-------------------------|
| * Kidney          | Nephropathy  | Chronicprogr, Mild      |
| * Preputial Gland | Inflammation | Chronic Active, Minimal |
| * Thymus          | Hemorrhage   | Minimal                 |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 537

TRT#: 1

SEX: Male

DAY ON TEST: 94

DOSE: 0.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-537

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                            |                          |
|-----------------------------|-----------------------------|----------------------------|--------------------------|
| * Adrenal Cortex            | * Adrenal Medulla           | * Aorta                    | * Bone                   |
| * Bone Marrow               | * Brain                     | * Epididymis               | * Esophagus              |
| * Eye                       | * Harderian Gland           | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Liver                     | * Lung                      | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric |
| * Mammary Gland             | * Nerve Trigeminal          | * Nose                     | * Pancreas               |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial | * Pituitary Gland        |
| * Preputial Gland           | * Prostate                  | * Salivary Glands          | * Seminal Vesicle        |
| Skeletal Muscle             | * Skin                      | * Spinal Cord, Cervical    | * Spinal Cord, Lumbar    |
| * Spinal Cord, Thoracic     | * Spleen                    | * Stomach, Forestomach     | * Stomach, Glandular     |
| Testis                      | * Thyroid Gland             | * Trachea                  | Trigeminal Ganglion      |
| * Urinary Bladder           |                             |                            |                          |

OBSERVATIONS

- |                           |               |                |                       |
|---------------------------|---------------|----------------|-----------------------|
| * Heart                   |               | Cardiomyopathy | Mild                  |
| * Intestine Large, Rectum | Lymphoid Tiss | Hyperplasia    | Minimal               |
| * Kidney                  |               | Nephropathy    | Chronicprogr, Minimal |
| * Thymus                  |               | Hemorrhage     | Minimal               |



Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 568

TRT#: 1

SEX: Male

DAY ON TEST: 94

DOSE: 0.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-568

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                             |                             |                          |
|----------------------------|-----------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla           | * Aorta                     | * Bone                   |
| * Bone Marrow              | * Brain                     | * Epididymis                | * Esophagus              |
| * Eye                      | * Harderian Gland           | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic        | * Liver                     | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric   | * Mammary Gland             | * Nerve Trigeminal          | * Nose                   |
| * Pancreas                 | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial  | * Pituitary Gland        |
| * Prostate                 | * Salivary Glands           | * Seminal Vesicle           | Skeletal Muscle          |
| * Skin                     | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar       | * Spinal Cord, Thoracic  |
| * Spleen                   | * Stomach, Forestomach      | * Stomach, Glandular        | Testis                   |
| * Thymus                   | * Thyroid Gland             | * Trachea                   | Trigeminal Ganglion      |
| * Urinary Bladder          |                             |                             |                          |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |  |              |                         |
|--|--------------|-------------------------|
| * Kidney   | Nephropathy  | Chronicprogr, Minimal   |
| * Lung   | Inflammation | Chronic Active, Minimal |
| Note: Eosinophilic crystalline material associated with inflammation |              |                         |
| * Preputial Gland  | Inflammation | Chronic Active, Mild    |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 579

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 0.0W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-579

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                             |                             |                          |
|----------------------------|-----------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla           | * Aorta                     | * Bone                   |
| * Bone Marrow              | * Brain                     | * Epididymis                | * Esophagus              |
| * Eye                      | * Harderian Gland           | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mesenteric |
| * Mammary Gland            | * Nerve Trigeminal          | * Nose                      | * Pancreas               |
| * Parathyroid Gland        | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial  | * Pituitary Gland        |
| * Prostate                 | * Salivary Glands           | * Seminal Vesicle           | Skeletal Muscle          |
| * Skin                     | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar       | * Spinal Cord, Thoracic  |
| * Spleen                   | * Stomach, Forestomach      | * Stomach, Glandular        | Testis                   |
| * Thyroid Gland            | * Trachea                   | Trigeminal Ganglion         | * Urinary Bladder        |

**OBSERVATIONS**

- |                          |                       |                         |
|--------------------------|-----------------------|-------------------------|
| * Kidney                 | Nephropathy           | Chronicprogr, Minimal   |
| * Liver                  | Infiltration Cellular | Mixed Cell, Minimal     |
| * Lymph Node, Mandibular | Hemorrhage            | Minimal                 |
| * Preputial Gland        | Inflammation          | Chronic Active, Minimal |
| * Thymus                 | Hemorrhage            | Minimal                 |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 582

TRT#: 1

SEX: Male

DAY ON TEST: 94

DOSE: 0.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-582

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

- |                           |                             |                             |                            |
|---------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Aorta                     | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis                | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lung                      | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal          | * Nose                     |
| * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial |
| * Pituitary Gland         | * Prostate                  | * Salivary Glands           | * Seminal Vesicle          |
| Skeletal Muscle           | * Skin                      | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar      |
| * Spinal Cord, Thoracic   | * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular       |
| Testis                    | * Thyroid Gland             | * Trachea                   | Trigeminal Ganglion        |
| * Urinary Bladder         |                             |                             |                            |

**OBSERVATIONS**

- |                   |               |                |                       |
|-------------------|---------------|----------------|-----------------------|
| * Heart           | Ventricle Rgt | Cardiomyopathy | Minimal               |
| * Kidney          |               | Nephropathy    | Chronicprogr, Minimal |
| * Preputial Gland |               | Inflammation   | Chronic Active, Mild  |
| * Thymus          |               | Hemorrhage     | Minimal               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 720

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 1.5W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-720

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                            |
|----------------------------|---------------------------|-----------------------------|----------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Aorta                     | * Bone                     |
| * Bone Marrow              | * Brain                   | * Epididymis                | * Esophagus                |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum   |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum   |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     | * Lung                     |
| * Lymph Node, Mesenteric   | * Mammary Gland           | * Nerve Trigeminal          | * Nose                     |
| * Pancreas                 | * Parathyroid Gland       | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial |
| * Pituitary Gland          | * Preputial Gland         | * Salivary Glands           | * Seminal Vesicle          |
| Skeletal Muscle            | * Skin                    | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar      |
| * Spinal Cord, Thoracic    | * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular       |
| Testis                     | * Thymus                  | * Thyroid Gland             | * Trachea                  |
| Trigeminal Ganglion        | * Urinary Bladder         |                             |                            |

**OBSERVATIONS**

- |                          |              |                         |
|--------------------------|--------------|-------------------------|
| * Kidney                 | Nephropathy  | Chronicprogr, Minimal   |
| * Lymph Node, Mandibular | Hemorrhage   | Minimal                 |
| * Prostate               | Inflammation | Chronic Active, Minimal |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 723

TRT#: 3

SEX: Male

DAY ON TEST: 94

DOSE: 1.5W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-723

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex            | * Adrenal Medulla           | * Aorta                  | * Bone                     |
| * Bone Marrow               | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                       | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Liver                     | * Lung                   | * Mammary Gland            |
| * Nerve Trigeminal          | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial  | * Pituitary Gland        | * Prostate                 |
| * Salivary Glands           | * Seminal Vesicle           | Skeletal Muscle          | * Skin                     |
| * Spinal Cord, Cervical     | * Spinal Cord, Lumbar       | * Spinal Cord, Thoracic  | * Spleen                   |
| * Stomach, Forestomach      | * Stomach, Glandular        | Testis                   | * Thyroid Gland            |
| * Trachea                   | Trigeminal Ganglion         | * Urinary Bladder        |                            |

OBSERVATIONS

- |                          |              |                         |
|--------------------------|--------------|-------------------------|
| * Harderian Gland        | Inflammation | Chronic Active, Minimal |
| * Kidney                 | Nephropathy  | Chronicprogr, Minimal   |
| * Lymph Node, Mandibular | Hemorrhage   | Mild                    |
| * Lymph Node, Mesenteric | Hemorrhage   | Minimal                 |
| * Preputial Gland        | Inflammation | Chronic Active, Minimal |
| * Thymus                 | Hemorrhage   | Mild                    |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 739

TRT#: 3

SEX: Male

DAY ON TEST: 94

DOSE: 1.5W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-739

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                            |                           |
|-----------------------------|-----------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla           | * Aorta                    | * Bone                    |
| * Bone Marrow               | * Brain                     | * Epididymis               | * Esophagus               |
| * Eye                       | * Intestine Large, Cecum    | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Liver                     | * Lung                      | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  |
| * Mammary Gland             | * Nerve Trigeminal          | * Nose                     | * Pancreas                |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial | * Pituitary Gland         |
| * Prostate                  | * Salivary Glands           | * Seminal Vesicle          | Skeletal Muscle           |
| * Skin                      | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar      | * Spinal Cord, Thoracic   |
| * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular       | Testis                    |
| * Thymus                    | * Thyroid Gland             | * Trachea                  | Trigeminal Ganglion       |
| * Urinary Bladder           |                             |                            |                           |

OBSERVATIONS

- |                   |                |                         |
|-------------------|----------------|-------------------------|
| * Harderian Gland | Inflammation   | Chronic Active, Minimal |
| * Heart           | Cardiomyopathy | Minimal                 |
| * Kidney          | Nephropathy    | Chronicprogr, Minimal   |
| * Preputial Gland | Inflammation   | Chronic Active, Minimal |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 760

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 1.5W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-760

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                             |                            |
|---------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Aorta                     | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis                | * Esophagus                |
| * Eye                     | * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lung                      | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal          | * Nose                     |
| * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial |
| * Pituitary Gland         | * Prostate                  | * Salivary Glands           | * Seminal Vesicle          |
| Skeletal Muscle           | * Skin                      | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar      |
| * Spinal Cord, Thoracic   | * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular       |
| Testis                    | * Thymus                    | * Thyroid Gland             | * Trachea                  |
| Trigeminal Ganglion       | * Urinary Bladder           |                             |                            |

**OBSERVATIONS**

- |                   |              |                         |
|-------------------|--------------|-------------------------|
| * Harderian Gland | Inflammation | Chronic Active, Mild    |
| * Kidney          | Nephropathy  | Chronicprogr, Minimal   |
| * Preputial Gland | Inflammation | Chronic Active, Minimal |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 761

TRT#: 3

SEX: Male

DAY ON TEST: 94

DOSE: 1.5W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-761

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                             |                             |                          |
|----------------------------|-----------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla           | * Aorta                     | * Bone                   |
| * Bone Marrow              | * Brain                     | * Epididymis                | * Esophagus              |
| * Eye                      | * Harderian Gland           | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic        | * Liver                     | * Lymph Node, Mandibular |
| * Mammary Gland            | * Nerve Trigeminal          | * Nose                      | * Pancreas               |
| * Parathyroid Gland        | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial  | * Pituitary Gland        |
| * Preputial Gland          | * Prostate                  | * Salivary Glands           | * Seminal Vesicle        |
| Skeletal Muscle            | * Skin                      | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar    |
| * Spinal Cord, Thoracic    | * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular     |
| Testis                     | * Thymus                    | * Thyroid Gland             | * Trachea                |
| Trigeminal Ganglion        | * Urinary Bladder           |                             |                          |

OBSERVATIONS

- |  |              |                         |
|--|--------------|-------------------------|
| * Kidney   | Nephropathy  | Chronicprogr, Minimal   |
| * Lung   | Inflammation | Chronic Active, Minimal |
| Note: Eosinophilic crystalline material present in inflammation. |              |                         |
| * Lymph Node, Mesenteric   | Hemorrhage   | Mild                    |



Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 779

TRT#: 3

SEX: Male

DAY ON TEST: 94

DOSE: 1.5W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-779

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                             |                            |
|---------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Aorta                     | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis                | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lung                      | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal          | * Nose                     |
| * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial |
| * Pituitary Gland         | * Preputial Gland           | * Prostate                  | * Salivary Glands          |
| * Seminal Vesicle         | Skeletal Muscle             | * Skin                      | * Spinal Cord, Cervical    |
| * Spinal Cord, Lumbar     | * Spinal Cord, Thoracic     | * Spleen                    | * Stomach, Forestomach     |
| * Stomach, Glandular      | Testis                      | * Thymus                    | * Trachea                  |
| Trigeminal Ganglion       | * Urinary Bladder           |                             |                            |

OBSERVATIONS

- |                 |                |                       |
|-----------------|----------------|-----------------------|
| * Heart         | Cardiomyopathy | Minimal               |
| * Kidney        | Nephropathy    | Chronicprogr, Minimal |
| * Thyroid Gland | Ectopic Thymus |                       |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 782

TRT#: 3

SEX: Male

DAY ON TEST: 94

DOSE: 1.5W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-782

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                             |                            |
|---------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Aorta                     | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis                | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lung                      | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal          | * Nose                     |
| * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial |
| * Preputial Gland         | * Prostate                  | * Salivary Glands           | * Seminal Vesicle          |
| Skeletal Muscle           | * Skin                      | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar      |
| * Spinal Cord, Thoracic   | * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular       |
| Testis                    | * Thymus                    | * Thyroid Gland             | * Trachea                  |
| Trigeminal Ganglion       | * Urinary Bladder           |                             |                            |

OBSERVATIONS

- |                   |               |                |                       |
|-------------------|---------------|----------------|-----------------------|
| * Heart           |               | Cardiomyopathy | Minimal               |
| * Kidney          |               | Nephropathy    | Chronicprogr, Minimal |
| * Pituitary Gland | Pars Distalis | Cyst           |                       |
| * Preputial GI    |               |                |                       |

Note: One gland available

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 802

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 1.5W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-802

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                             |
|----------------------------|---------------------------|-----------------------------|-----------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Aorta                     | * Bone                      |
| * Bone Marrow              | * Brain                   | * Epididymis                | * Esophagus                 |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     | * Lung                      |
| * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal          |
| * Nose                     | * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic |
| * Peripheral Nerve, Tibial | * Preputial Gland         | * Prostate                  | * Salivary Glands           |
| * Seminal Vesicle          | Skeletal Muscle           | * Skin                      | * Spinal Cord, Cervical     |
| * Spinal Cord, Lumbar      | * Spinal Cord, Thoracic   | * Spleen                    | * Stomach, Forestomach      |
| * Stomach, Glandular       | Testis                    | * Thymus                    | * Thyroid Gland             |
| * Trachea                  | Trigeminal Ganglion       | * Urinary Bladder           |                             |

**OBSERVATIONS**

- |                   |               |             |                       |
|-------------------|---------------|-------------|-----------------------|
| * Kidney          |               | Nephropathy | Chronicprogr, Minimal |
| * Pituitary Gland | Rathkes Cleft | Cyst        |                       |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 803

TRT#: 3

SEX: Male

DAY ON TEST: 94

DOSE: 1.5W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-803

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                             |                            |
|---------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Aorta                     | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis                | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lung                      | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal          | * Nose                     |
| * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial |
| * Pituitary Gland         | * Preputial Gland           | * Prostate                  | * Salivary Glands          |
| * Seminal Vesicle         | Skeletal Muscle             | * Skin                      | * Spinal Cord, Cervical    |
| * Spinal Cord, Lumbar     | * Spinal Cord, Thoracic     | * Spleen                    | * Stomach, Forestomach     |
| * Stomach, Glandular      | Testis                      | * Thymus                    | * Thyroid Gland            |
| * Trachea                 | Trigeminal Ganglion         | * Urinary Bladder           |                            |

OBSERVATIONS

- |          |              |                |         |
|----------|--------------|----------------|---------|
| * Heart  |              | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Dilation       | Minimal |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 809

TRT#: 3

SEX: Male

DAY ON TEST: 94

DOSE: 1.5W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-809

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                             |                            |
|-----------------------------|--------------------------|-----------------------------|----------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Aorta                     | * Bone                     |
| * Bone Marrow               | * Brain                  | * Epididymis                | * Esophagus                |
| * Eye                       | * Harderian Gland        | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  | * Islets, Pancreatic       |
| * Kidney                    | * Liver                  | * Lung                      | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Nerve Trigeminal          | * Nose                     |
| * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial |
| * Pituitary Gland           | * Preputial Gland        | * Prostate                  | * Salivary Glands          |
| * Seminal Vesicle           | Skeletal Muscle          | * Skin                      | * Spinal Cord, Cervical    |
| * Spinal Cord, Lumbar       | * Spinal Cord, Thoracic  | * Spleen                    | * Stomach, Forestomach     |
| * Stomach, Glandular        | Testis                   | * Thymus                    | * Thyroid Gland            |
| * Trachea                   | Trigeminal Ganglion      | * Urinary Bladder           |                            |

OBSERVATIONS

- |                           |                 |                |        |
|---------------------------|-----------------|----------------|--------|
| * Heart                   | Ventricle Rgt   | Cardiomyopathy | Mild   |
| * Intestine Large, Rectum | Lymphoid Tissue | Hyperplasia    | Marked |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 921

TRT#: 5

SEX: Male

DAY ON TEST: 94

DOSE: 3.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-921

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                            |                            |
|---------------------------|-----------------------------|----------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Aorta                    | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis               | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum   | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum   | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nerve Trigeminal          | * Nose                     | * Pancreas                 |
| * Parathyroid Gland       | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial | * Pituitary Gland          |
| * Preputial Gland         | * Prostate                  | * Salivary Glands          | * Seminal Vesicle          |
| Skeletal Muscle           | * Skin                      | * Spinal Cord, Cervical    | * Spinal Cord, Lumbar      |
| * Spinal Cord, Thoracic   | * Spleen                    | * Stomach, Forestomach     | * Stomach, Glandular       |
| Testis                    | * Thymus                    | * Thyroid Gland            | * Trachea                  |
| Trigeminal Ganglion       | * Urinary Bladder           |                            |                            |

OBSERVATIONS

- |          |              |                       |                       |
|----------|--------------|-----------------------|-----------------------|
| * Heart  | Ventricl Rgt | Cardiomyopathy        | Minimal               |
| * Kidney |              | Nephropathy           | Chronicprogr, Minimal |
| * Liver  |              | Infiltration Cellular | Mixed Cell, Minimal   |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 925

TRT#: 5

SEX: Male

DAY ON TEST: 94

DOSE: 3.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-925

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                            |                            |                           |
|-----------------------------|----------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla          | * Aorta                    | * Bone                    |
| * Bone Marrow               | * Brain                    | * Epididymis               | * Esophagus               |
| * Eye                       | * Intestine Large, Cecum   | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum   | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lung                      | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric   | * Mammary Gland           |
| * Nerve Trigeminal          | * Nose                     | * Pancreas                 | * Parathyroid Gland       |
| * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial | * Preputial Gland          | * Prostate                |
| * Salivary Glands           | * Seminal Vesicle          | Skeletal Muscle            | * Skin                    |
| * Spinal Cord, Cervical     | * Spinal Cord, Lumbar      | * Spinal Cord, Thoracic    | * Spleen                  |
| * Stomach, Forestomach      | * Stomach, Glandular       | Testis                     | * Thymus                  |
| * Trachea                   | Trigeminal Ganglion        | * Urinary Bladder          |                           |

OBSERVATIONS

- |                   |               |                       |                       |
|-------------------|---------------|-----------------------|-----------------------|
| * Harderian Gland |               | Inflammation          | Chronic Active, Mild  |
| * Heart           |               | Cardiomyopathy        | Minimal               |
| * Kidney          | Pelvis        | Dilation              | Minimal               |
|                   |               | Nephropathy           | Chronicprogr, Minimal |
| * Liver           |               | Infiltration Cellular | Mixed Cell, Minimal   |
| * Pituitary Gland | Pars Distalis | Cyst                  |                       |
|                   | Rathkes Cleft | Cyst                  |                       |
| * Thyroid Gland   |               | Ectopic Thymus        |                       |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 929

TRT#: 5

SEX: Male

DAY ON TEST: 94

DOSE: 3.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-929

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                             |
|----------------------------|---------------------------|-----------------------------|-----------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Aorta                     | * Bone                      |
| * Bone Marrow              | * Brain                   | * Epididymis                | * Esophagus                 |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    | * Liver                     |
| * Lung                     | * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal          |
| * Nose                     | * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic |
| * Peripheral Nerve, Tibial | * Pituitary Gland         | * Prostate                  | * Salivary Glands           |
| * Seminal Vesicle          | Skeletal Muscle           | * Skin                      | * Spinal Cord, Cervical     |
| * Spinal Cord, Lumbar      | * Spinal Cord, Thoracic   | * Spleen                    | * Stomach, Forestomach      |
| * Stomach, Glandular       | Testis                    | * Thymus                    | * Thyroid Gland             |
| * Trachea                  | Trigeminal Ganglion       | * Urinary Bladder           |                             |

OBSERVATIONS

- |                          |              |                         |
|--------------------------|--------------|-------------------------|
| * Lymph Node, Mandibular | Hemorrhage   | Minimal                 |
| * Preputial Gland        | Inflammation | Chronic Active, Minimal |



Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 936

TRT#: 5

SEX: Male

DAY ON TEST: 94

DOSE: 3.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-936

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                             |                            |
|---------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Aorta                     | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis                | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lung                      | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal          | * Nose                     |
| * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial |
| * Pituitary Gland         | * Preputial Gland           | * Prostate                  | * Salivary Glands          |
| * Seminal Vesicle         | Skeletal Muscle             | * Skin                      | * Spinal Cord, Cervical    |
| * Spinal Cord, Lumbar     | * Spinal Cord, Thoracic     | * Spleen                    | * Stomach, Forestomach     |
| * Stomach, Glandular      | Testis                      | * Thymus                    | * Thyroid Gland            |
| * Trachea                 | Trigeminal Ganglion         | * Urinary Bladder           |                            |

OBSERVATIONS

- |          |              |                |                       |
|----------|--------------|----------------|-----------------------|
| * Heart  | Ventricl Rgt | Cardiomyopathy | Mild                  |
| * Kidney |              | Nephropathy    | Chronicprogr, Minimal |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 940

TRT#: 5

SEX: Male

DAY ON TEST: 94

DOSE: 3.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-940

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                            |                            |
|---------------------------|-----------------------------|----------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Aorta                    | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis               | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum   | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum   | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nerve Trigeminal          | * Nose                     | * Pancreas                 |
| * Parathyroid Gland       | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial | * Pituitary Gland          |
| * Preputial Gland         | * Prostate                  | * Salivary Glands          | * Seminal Vesicle          |
| Skeletal Muscle           | * Skin                      | * Spinal Cord, Cervical    | * Spinal Cord, Lumbar      |
| * Spinal Cord, Thoracic   | * Spleen                    | * Stomach, Forestomach     | * Stomach, Glandular       |
| Testis                    | * Thymus                    | * Thyroid Gland            | * Trachea                  |
| Trigeminal Ganglion       | * Urinary Bladder           |                            |                            |

OBSERVATIONS

- |          |              |                |                       |
|----------|--------------|----------------|-----------------------|
| * Heart  | Ventricl Rgt | Cardiomyopathy | Minimal               |
| * Kidney |              | Nephropathy    | Chronicprogr, Minimal |
| * Lung   |              | Congestion     | Mild                  |
- [ Congestion TGLs = 1-10 ]

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 948

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 3.0W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-948

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                            |                            |                           |
|-----------------------------|----------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla          | * Aorta                    | * Bone                    |
| * Bone Marrow               | * Brain                    | * Epididymis               | * Esophagus               |
| * Eye                       | * Intestine Large, Cecum   | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum   | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Liver                     | * Lung                     | * Lymph Node, Mesenteric   | * Mammary Gland           |
| * Nerve Trigeminal          | * Nose                     | * Pancreas                 | * Parathyroid Gland       |
| * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial | * Preputial Gland          | * Salivary Glands         |
| * Seminal Vesicle           | Skeletal Muscle            | * Skin                     | * Spinal Cord, Cervical   |
| * Spinal Cord, Lumbar       | * Spinal Cord, Thoracic    | * Spleen                   | * Stomach, Forestomach    |
| * Stomach, Glandular        | Testis                     | * Thymus                   | * Thyroid Gland           |
| * Trachea                   | Trigeminal Ganglion        | * Urinary Bladder          |                           |

**OBSERVATIONS**

- |                          |               |                |                         |
|--------------------------|---------------|----------------|-------------------------|
| * Harderian Gland        |               | Inflammation   | Chronic Active, Minimal |
| * Heart                  | Ventricle Rgt | Cardiomyopathy | Minimal                 |
| * Kidney                 |               | Nephropathy    | Chronicprogr, Minimal   |
| * Lymph Node, Mandibular |               | Hemorrhage     | Minimal                 |
| * Pituitary Gland        | Rathkes Cleft | Cyst           |                         |
| * Prostate               |               | Inflammation   | Chronic Active, Minimal |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 956

TRT#: 5

SEX: Male

DAY ON TEST: 94

DOSE: 3.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-956

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                             |                            |
|---------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Aorta                     | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis                | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lung                      | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal          | * Nose                     |
| * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial |
| * Pituitary Gland         | * Preputial Gland           | * Prostate                  | * Salivary Glands          |
| * Seminal Vesicle         | Skeletal Muscle             | * Skin                      | * Spinal Cord, Cervical    |
| * Spinal Cord, Lumbar     | * Spinal Cord, Thoracic     | * Spleen                    | * Stomach, Forestomach     |
| * Stomach, Glandular      | Testis                      | * Thyroid Gland             | * Trachea                  |
| Trigeminal Ganglion       | * Urinary Bladder           |                             |                            |

OBSERVATIONS

- |          |                |                       |
|----------|----------------|-----------------------|
| * Heart  | Cardiomyopathy | Minimal               |
| * Kidney | Nephropathy    | Chronicprogr, Minimal |
| * Thymus | Hemorrhage     | Mild                  |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 969

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 3.0W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-969

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                            |
|----------------------------|---------------------------|-----------------------------|----------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Aorta                     | * Bone                     |
| * Bone Marrow              | * Brain                   | * Epididymis                | * Esophagus                |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum   |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum   |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric   | * Mammary Gland           | * Nerve Trigeminal          | * Nose                     |
| * Pancreas                 | * Parathyroid Gland       | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial |
| * Pituitary Gland          | * Preputial Gland         | * Prostate                  | * Salivary Glands          |
| * Seminal Vesicle          | Skeletal Muscle           | * Skin                      | * Spinal Cord, Cervical    |
| * Spinal Cord, Lumbar      | * Spinal Cord, Thoracic   | * Spleen                    | * Stomach, Forestomach     |
| * Stomach, Glandular       | Testis                    | * Thymus                    | * Thyroid Gland            |
| * Trachea                  | Trigeminal Ganglion       | * Urinary Bladder           |                            |

**OBSERVATIONS**

- |          |                       |                     |
|----------|-----------------------|---------------------|
| * Kidney | Nephropathy           | Chronicprogr, Mild  |
| * Liver  | Infiltration Cellular | Mixed Cell, Minimal |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 995

TRT#: 5

SEX: Male

DAY ON TEST: 94

DOSE: 3.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-995

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                             |                            |
|---------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Aorta                     | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis                | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lung                      | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal          | * Nose                     |
| * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial |
| * Preputial Gland         | * Prostate                  | * Salivary Glands           | * Seminal Vesicle          |
| Skeletal Muscle           | * Skin                      | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar      |
| * Spinal Cord, Thoracic   | * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular       |
| Testis                    | * Thymus                    | * Thyroid Gland             | * Trachea                  |
| Trigeminal Ganglion       | * Urinary Bladder           |                             |                            |

OBSERVATIONS

- |                   |               |                |                       |
|-------------------|---------------|----------------|-----------------------|
| * Heart           |               | Cardiomyopathy | Minimal               |
| * Kidney          |               | Nephropathy    | Chronicprogr, Minimal |
| * Pituitary Gland | Pars Distalis | Cyst           |                       |
|                   | Rathkes Cleft | Cyst           |                       |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 1006

TRT#: 5

SEX: Male

DAY ON TEST: 94

DOSE: 3.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-1006

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                             |                            |
|---------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Aorta                     | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis                | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lung                      | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal          | * Nose                     |
| * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial |
| * Pituitary Gland         | * Preputial Gland           | * Prostate                  | * Salivary Glands          |
| * Seminal Vesicle         | Skeletal Muscle             | * Skin                      | * Spinal Cord, Cervical    |
| * Spinal Cord, Lumbar     | * Spinal Cord, Thoracic     | * Spleen                    | * Stomach, Forestomach     |
| * Stomach, Glandular      | Testis                      | * Thyroid Gland             | * Trachea                  |
| Trigeminal Ganglion       | * Urinary Bladder           |                             |                            |

OBSERVATIONS

- |                            |               |                |         |
|----------------------------|---------------|----------------|---------|
| * Heart                    | Ventricle Rgt | Cardiomyopathy | Minimal |
| * Kidney                   |               | Congestion     | Mild    |
| [ Congestion TGLs = 1-13 ] |               |                |         |
| * Thymus                   |               | Hemorrhage     | Mild    |
| [ Hemorrhage TGLs = 2-6 ]  |               |                |         |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 1132

TRT#: 7

SEX: Male

DAY ON TEST: 94

DOSE: 6.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-1132

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                             |
|-----------------------------|--------------------------|----------------------------|-----------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Aorta                    | * Bone Marrow               |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                       |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland             |
| * Nerve Trigeminal          | * Nose                   | * Pancreas                 | * Peripheral Nerve, Sciatic |
| * Peripheral Nerve, Tibial  | * Preputial Gland        | * Prostate                 | * Salivary Glands           |
| * Seminal Vesicle           | Skeletal Muscle          | * Skin                     | * Spinal Cord, Cervical     |
| * Spinal Cord, Lumbar       | * Spinal Cord, Thoracic  | * Spleen                   | * Stomach, Forestomach      |
| * Stomach, Glandular        | Testis                   | * Thymus                   | * Thyroid Gland             |
| * Trachea                   | Trigeminal Ganglion      | * Urinary Bladder          |                             |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                          |               |                       |                       |
|--------------------------|---------------|-----------------------|-----------------------|
| * Bone                   | Tibia         | Fracture              | Chronic, Marked       |
| [ Fracture TGLs = 1-20 ] |               |                       |                       |
| * Heart                  | Ventricle Rgt | Cardiomyopathy        | Minimal               |
|                          |               | Cardiomyopathy        | Minimal               |
| * Kidney                 |               | Nephropathy           | Chronicprogr, Minimal |
| * Liver                  |               | Infiltration Cellular | Mixed Cell, Minimal   |
| * Pituitary Gland        | Rathkes Cleft | Cyst                  |                       |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 1142

TRT#: 7

SEX: Male

DAY ON TEST: 94

DOSE: 6.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-1142

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                             |                            |
|---------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Aorta                     | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis                | * Esophagus                |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lung                      | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal          | * Nose                     |
| * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial |
| * Preputial Gland         | * Prostate                  | * Salivary Glands           | * Seminal Vesicle          |
| Skeletal Muscle           | * Skin                      | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar      |
| * Spinal Cord, Thoracic   | * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular       |
| Testis                    | * Thymus                    | * Thyroid Gland             | * Trachea                  |
| Trigeminal Ganglion       | * Urinary Bladder           |                             |                            |

OBSERVATIONS

- |                   |               |                            |                       |
|-------------------|---------------|----------------------------|-----------------------|
| * Eye             | Retina        | Developmental Malformation |                       |
| * Kidney          |               | Nephropathy                | Chronicprogr, Minimal |
| * Pituitary Gland | Rathkes Cleft | Cyst                       |                       |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 1147

TRT#: 7

SEX: Male

DAY ON TEST: 94

DOSE: 6.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-1147

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

- |                            |                           |                             |                             |
|----------------------------|---------------------------|-----------------------------|-----------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Aorta                     | * Bone                      |
| * Bone Marrow              | * Brain                   | * Epididymis                | * Esophagus                 |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    | * Liver                     |
| * Lung                     | * Lymph Node, Mandibular  | * Lymph Node, Mesenteric    | * Mammary Gland             |
| * Nerve Trigeminal         | * Nose                    | * Pancreas                  | * Peripheral Nerve, Sciatic |
| * Peripheral Nerve, Tibial | * Pituitary Gland         | * Prostate                  | * Salivary Glands           |
| * Seminal Vesicle          | Skeletal Muscle           | * Skin                      | * Spinal Cord, Cervical     |
| * Spinal Cord, Lumbar      | * Spinal Cord, Thoracic   | * Spleen                    | * Stomach, Forestomach      |
| * Stomach, Glandular       | Testis                    | * Thymus                    | * Trachea                   |
| Trigeminal Ganglion        | * Urinary Bladder         |                             |                             |

**MISSING**

- \* Parathyroid Gland

**OBSERVATIONS**

- |                   |                |                         |
|-------------------|----------------|-------------------------|
| * Preputial Gland | Inflammation   | Chronic Active, Minimal |
| * Thyroid Gland   | Ectopic Thymus |                         |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 1148

TRT#: 7

SEX: Male

DAY ON TEST: 94

DOSE: 6.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-1148

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                             |
|----------------------------|---------------------------|-----------------------------|-----------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Aorta                     | * Bone                      |
| * Bone Marrow              | * Brain                   | * Epididymis                | * Esophagus                 |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    | * Liver                     |
| * Lung                     | * Lymph Node, Mandibular  | * Lymph Node, Mesenteric    | * Nerve Trigeminal          |
| * Nose                     | * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic |
| * Peripheral Nerve, Tibial | * Prostate                | * Salivary Glands           | * Seminal Vesicle           |
| Skeletal Muscle            | * Skin                    | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar       |
| * Spinal Cord, Thoracic    | * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular        |
| Testis                     | * Thymus                  | * Thyroid Gland             | * Trachea                   |
| Trigeminal Ganglion        | * Urinary Bladder         |                             |                             |

MISSING

- \* Mammary Gland

OBSERVATIONS

- \* Brain
  - Note: One olfactory bulb
- \* Pituitary Gland                      Pars Distalis                      Cyst
- \* Preputial Gland                      Inflammation                      Chronic Active, Minimal

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 1153

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 6.0W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-1153

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                            |                            |                           |
|-----------------------------|----------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla          | * Aorta                    | * Bone                    |
| * Bone Marrow               | * Brain                    | * Epididymis               | * Esophagus               |
| * Eye                       | * Intestine Large, Cecum   | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum   | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Liver                     | * Lung                     | * Lymph Node, Mesenteric   | * Mammary Gland           |
| * Nerve Trigeminal          | * Nose                     | * Pancreas                 | * Parathyroid Gland       |
| * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial | * Pituitary Gland          | * Prostate                |
| * Salivary Glands           | * Seminal Vesicle          | Skeletal Muscle            | * Skin                    |
| * Spinal Cord, Cervical     | * Spinal Cord, Lumbar      | * Spinal Cord, Thoracic    | * Spleen                  |
| * Stomach, Forestomach      | * Stomach, Glandular       | Testis                     | * Thymus                  |
| * Thyroid Gland             | * Trachea                  | Trigeminal Ganglion        | * Urinary Bladder         |

**OBSERVATIONS**

- |                          |                |                         |
|--------------------------|----------------|-------------------------|
| * Harderian Gland        | Inflammation   | Chronic Active, Mild    |
| * Heart                  | Cardiomyopathy | Minimal                 |
| * Kidney                 | Nephropathy    | Chronicprogr, Minimal   |
| * Lymph Node, Mandibular | Hyperplasia    | Lymphocyte, Minimal     |
|                          | Proliferation  | Plasma Cell, Minimal    |
| * Preputial Gland        | Inflammation   | Chronic Active, Minimal |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 1173

TRT#: 7

SEX: Male

DAY ON TEST: 94

DOSE: 6.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-1173

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                             |                            |
|---------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Aorta                     | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis                | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lung                      | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal          | * Nose                     |
| * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial |
| * Prostate                | * Salivary Glands           | * Seminal Vesicle           | Skeletal Muscle            |
| * Skin                    | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar       | * Spinal Cord, Thoracic    |
| * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular        | Testis                     |
| * Thymus                  | * Thyroid Gland             | * Trachea                   | Trigeminal Ganglion        |
| * Urinary Bladder         |                             |                             |                            |

OBSERVATIONS

- |                   |               |                |                      |
|-------------------|---------------|----------------|----------------------|
| * Heart           |               | Cardiomyopathy | Minimal              |
|                   | Ventricl Rgt  | Cardiomyopathy | Minimal              |
| * Kidney          |               | Nephropathy    | Chronicprogr, Mild   |
| * Pituitary Gland | Pars Distalis | Cyst           |                      |
| * Preputial Gland |               | Inflammation   | Chronic Active, Mild |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 1186

TRT#: 7

SEX: Male

DAY ON TEST: 94

DOSE: 6.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-1186

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                             |                            |
|---------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Aorta                     | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis                | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lung                      | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal          | * Nose                     |
| * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial |
| * Pituitary Gland         | * Preputial Gland           | * Prostate                  | * Salivary Glands          |
| * Seminal Vesicle         | Skeletal Muscle             | * Skin                      | * Spinal Cord, Cervical    |
| * Spinal Cord, Lumbar     | * Spinal Cord, Thoracic     | * Spleen                    | * Stomach, Forestomach     |
| * Stomach, Glandular      | Testis                      | * Thymus                    | * Trachea                  |
| Trigeminal Ganglion       | * Urinary Bladder           |                             |                            |

OBSERVATIONS

- |                           |               |                |                       |
|---------------------------|---------------|----------------|-----------------------|
| * Heart                   | Ventricle Rgt | Cardiomyopathy | Minimal               |
| * Kidney                  |               | Nephropathy    | Chronicprogr, Minimal |
| * Preputial GI            |               |                |                       |
| Note: One gland available |               |                |                       |
| * Thyroid Gland           |               | Ectopic Thymus |                       |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 1192

TRT#: 7

SEX: Male

DAY ON TEST: 94

DOSE: 6.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-1192

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex            | * Adrenal Medulla           | * Aorta                  | * Bone                     |
| * Bone Marrow               | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                       | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nerve Trigeminal          | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial  | * Preputial Gland        | * Prostate                 |
| * Salivary Glands           | * Seminal Vesicle           | Skeletal Muscle          | * Skin                     |
| * Spinal Cord, Cervical     | * Spinal Cord, Lumbar       | * Spinal Cord, Thoracic  | * Spleen                   |
| * Stomach, Forestomach      | * Stomach, Glandular        | * Thymus                 | * Thyroid Gland            |
| * Trachea                   | Trigeminal Ganglion         | * Urinary Bladder        |                            |

OBSERVATIONS

- |                          |               |                       |                       |
|--------------------------|---------------|-----------------------|-----------------------|
| * Heart                  | Ventricle Rgt | Cardiomyopathy        | Minimal               |
| * Kidney                 |               | Nephropathy           | Chronicprogr, Minimal |
| * Liver                  |               | Infiltration Cellular | Mixed Cell, Minimal   |
| * Lymph Node, Mandibular |               | Hyperplasia           | Lymphocyte, Minimal   |
| * Pituitary Gland        | Rathkes Cleft | Cyst                  |                       |
| Testis                   | Germ Cell     | Degeneration          | Mild                  |

Note: Minimal germ cell debris extending in to epididymis.

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 1212

TRT#: 7

SEX: Male

DAY ON TEST: 94

DOSE: 6.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-1212

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                            |                            |
|---------------------------|-----------------------------|----------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Aorta                    | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis               | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum   | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum   | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lung                     | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nerve Trigeminal          | * Nose                     | * Pancreas                 |
| * Parathyroid Gland       | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial | * Pituitary Gland          |
| * Preputial Gland         | * Prostate                  | * Salivary Glands          | * Seminal Vesicle          |
| Skeletal Muscle           | * Skin                      | * Spinal Cord, Cervical    | * Spinal Cord, Lumbar      |
| * Spinal Cord, Thoracic   | * Spleen                    | * Stomach, Forestomach     | * Stomach, Glandular       |
| Testis                    | * Thymus                    | * Thyroid Gland            | * Trachea                  |
| Trigeminal Ganglion       | * Urinary Bladder           |                            |                            |

OBSERVATIONS

- |                          |                |                       |
|--------------------------|----------------|-----------------------|
| * Heart                  | Cardiomyopathy | Minimal               |
| * Kidney                 | Nephropathy    | Chronicprogr, Minimal |
| * Lymph Node, Mandibular | Hemorrhage     | Moderate              |
|                          | Hyperplasia    | Lymphocyte, Minimal   |

[ Hemorrhage TGLs = 1-9 ]



Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 1221

TRT#: 7

SEX: Male

DAY ON TEST: 94

DOSE: 6.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-1221

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                             |
|-----------------------------|--------------------------|----------------------------|-----------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Aorta                    | * Bone                      |
| * Bone Marrow               | * Brain                  | * Epididymis               | * Esophagus                 |
| * Eye                       | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| * Kidney                    | * Lung                   | * Lymph Node, Mesenteric   | * Nerve Trigeminal          |
| * Nose                      | * Pancreas               | * Parathyroid Gland        | * Peripheral Nerve, Sciatic |
| * Peripheral Nerve, Tibial  | * Pituitary Gland        | * Preputial Gland          | * Prostate                  |
| * Salivary Glands           | * Seminal Vesicle        | Skeletal Muscle            | * Skin                      |
| * Spinal Cord, Cervical     | * Spinal Cord, Lumbar    | * Spinal Cord, Thoracic    | * Spleen                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | Testis                     | * Thymus                    |
| * Thyroid Gland             | * Trachea                | Trigeminal Ganglion        | * Urinary Bladder           |

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                          |              |                       |                      |
|--------------------------|--------------|-----------------------|----------------------|
| * Harderian Gland        |              | Inflammation          | Chronic Active, Mild |
| * Heart                  | Ventricl Rgt | Cardiomyopathy        | Minimal              |
| * Liver                  |              | Infiltration Cellular | Mixed Cell, Minimal  |
| * Lymph Node, Mandibular |              | Hyperplasia           | Lymphocyte, Minimal  |
|                          |              | Proliferation         | Plasma Cell, Minimal |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 606

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-606

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                            |                             |                          |
|-----------------------------|----------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex            | * Adrenal Medulla          | * Aorta                     | * Bone                   |
| * Bone Marrow               | * Brain                    | * Clitoral Gland            | * Esophagus              |
| * Eye                       | * Harderian Gland          | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum  | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum  | * Islets, Pancreatic       | * Kidney                    | * Liver                  |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric   | * Mammary Gland             | * Nerve Trigeminal       |
| * Nose                      | * Ovary                    | * Pancreas                  | * Parathyroid Gland      |
| * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial | * Pituitary Gland           | * Salivary Glands        |
| Skeletal Muscle             | * Skin                     | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar    |
| * Spinal Cord, Thoracic     | * Spleen                   | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thymus                    | * Thyroid Gland            | * Trachea                   | Trigeminal Ganglion      |
| * Urinary Bladder           | * Uterus                   |                             |                          |

OBSERVATIONS

- |        |          |                       |                     |
|--------|----------|-----------------------|---------------------|
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
|--------|----------|-----------------------|---------------------|

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 612

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 0.0W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-612

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                             |                             |                          |
|----------------------------|-----------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla           | * Aorta                     | * Bone                   |
| * Bone Marrow              | * Brain                     | * Clitoral Gland            | * Esophagus              |
| * Eye                      | * Harderian Gland           | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic        | * Kidney                    | * Liver                  |
| * Lung                     | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric    | * Mammary Gland          |
| * Nerve Trigeminal         | * Nose                      | * Ovary                     | * Pancreas               |
| * Parathyroid Gland        | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial  | * Salivary Glands        |
| Skeletal Muscle            | * Skin                      | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar    |
| * Spinal Cord, Thoracic    | * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thymus                   | * Thyroid Gland             | * Trachea                   | Trigeminal Ganglion      |
| * Urinary Bladder          | * Uterus                    |                             |                          |

**OBSERVATIONS**

- |                   |               |      |
|-------------------|---------------|------|
| * Pituitary Gland | Pars Distalis | Cyst |
|-------------------|---------------|------|

**Experiment Number:** 20105 - 59

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

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

**Time Report Requested:** 12:00:01

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

**Lab:** IIT

**ANIMAL ID:** 620

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 0.0W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-620

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Aorta	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nerve Trigeminal	* Nose	* Pancreas	* Parathyroid Gland
* Peripheral Nerve, Sciatic	* Peripheral Nerve, Tibial	* Pituitary Gland	* Salivary Glands
Skeletal Muscle	* Skin	* Spinal Cord, Cervical	* Spinal Cord, Lumbar
* Spinal Cord, Thoracic	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	Trigeminal Ganglion
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

\* Lung

Note: No histopathological correlate for pigment

\* Ovary

Follicle

Cyst

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 650

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-650

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                             |
|----------------------------|---------------------------|-----------------------------|-----------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Aorta                     | * Bone                      |
| * Bone Marrow              | * Brain                   | * Clitoral Gland            | * Esophagus                 |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric   | * Mammary Gland           | * Nerve Trigeminal          | * Nose                      |
| * Ovary                    | * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic |
| * Peripheral Nerve, Tibial | * Salivary Glands         | Skeletal Muscle             | * Skin                      |
| * Spinal Cord, Cervical    | * Spinal Cord, Lumbar     | * Spinal Cord, Thoracic     | * Spleen                    |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    | * Thyroid Gland             |
| * Trachea                  | Trigeminal Ganglion       | * Urinary Bladder           | * Uterus                    |

OBSERVATIONS

- |                   |               |                       |                       |
|-------------------|---------------|-----------------------|-----------------------|
| * Kidney          |               | Nephropathy           | Chronicprogr, Minimal |
| * Lung            | Alveolus      | Infiltration Cellular | Histiocyte, Minimal   |
| * Pituitary Gland | Pars Distalis | Cyst                  |                       |

Animal Note: TGL 1 = NCL (No Corresponding Lesion)

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 667

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 0.0W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-667

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                            |                             |                          |
|-----------------------------|----------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex            | * Adrenal Medulla          | * Aorta                     | * Bone                   |
| * Bone Marrow               | * Brain                    | * Clitoral Gland            | * Esophagus              |
| * Eye                       | * Harderian Gland          | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum  | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum  | * Islets, Pancreatic       | * Liver                     | * Lung                   |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric   | * Mammary Gland             | * Nerve Trigeminal       |
| * Nose                      | * Ovary                    | * Pancreas                  | * Parathyroid Gland      |
| * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial | * Pituitary Gland           | * Salivary Glands        |
| Skeletal Muscle             | * Skin                     | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar    |
| * Spinal Cord, Thoracic     | * Spleen                   | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thymus                    | * Thyroid Gland            | * Trachea                   | * Urinary Bladder        |
| * Uterus                    |                            |                             |                          |

**INSUFFICIENT TISSUE**

Trigeminal Ganglion

**OBSERVATIONS**

* Kidney	Nephropathy	Chronicprogr, Minimal
----------	-------------	-----------------------

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 673

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 0.0W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-673

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                             |                          |                             |
|----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex           | * Adrenal Medulla           | * Aorta                  | * Bone                      |
| * Bone Marrow              | * Brain                     | * Esophagus              | * Eye                       |
| * Harderian Gland          | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum  | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic       | * Liver                     | * Lung                   | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric   | * Mammary Gland             | * Nerve Trigeminal       | * Nose                      |
| * Ovary                    | * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic |
| * Peripheral Nerve, Tibial | * Pituitary Gland           | * Salivary Glands        | Skeletal Muscle             |
| * Skin                     | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar    | * Spinal Cord, Thoracic     |
| * Spleen                   | * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                    |
| * Thyroid Gland            | * Trachea                   | Trigeminal Ganglion      | * Urinary Bladder           |
| * Uterus                   |                             |                          |                             |

**OBSERVATIONS**

- |                  |              |                         |
|------------------|--------------|-------------------------|
| * Clitoral Gland | Inflammation | Chronic Active, Minimal |
| * Kidney         | Nephropathy  | Chronicprogr, Minimal   |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 676

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-676

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                             |
|-----------------------------|--------------------------|----------------------------|-----------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Aorta                    | * Bone                      |
| * Bone Marrow               | * Brain                  | * Esophagus                | * Eye                       |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| * Kidney                    | * Liver                  | * Lung                     | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Nerve Trigeminal         | * Nose                      |
| * Ovary                     | * Pancreas               | * Parathyroid Gland        | * Peripheral Nerve, Sciatic |
| * Peripheral Nerve, Tibial  | * Pituitary Gland        | * Salivary Glands          | Skeletal Muscle             |
| * Skin                      | * Spinal Cord, Cervical  | * Spinal Cord, Lumbar      | * Spinal Cord, Thoracic     |
| * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                    |
| * Thyroid Gland             | * Trachea                | Trigeminal Ganglion        | * Urinary Bladder           |
| * Uterus                    |                          |                            |                             |

OBSERVATIONS

- |                   |                       |                         |
|-------------------|-----------------------|-------------------------|
| * Clitoral Gland  | Inflammation          | Chronic Active, Minimal |
| * Harderian Gland | Infiltration Cellular | Lymphocyte, Minimal     |



Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 682

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 0.0W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-682

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex            | * Adrenal Medulla           | * Aorta                  | * Bone                     |
| * Bone Marrow               | * Brain                     | * Esophagus              | * Eye                      |
| * Harderian Gland           | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Kidney                    | * Liver                  | * Lung                     |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric    | * Mammary Gland          | * Nerve Trigeminal         |
| * Nose                      | * Ovary                     | * Pancreas               | * Parathyroid Gland        |
| * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial  | * Pituitary Gland        | * Salivary Glands          |
| Skeletal Muscle             | * Skin                      | * Spinal Cord, Cervical  | * Spinal Cord, Lumbar      |
| * Spinal Cord, Thoracic     | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                    | * Thyroid Gland             | * Trachea                | Trigeminal Ganglion        |
| * Urinary Bladder           | * Uterus                    |                          |                            |

**OBSERVATIONS**

- |                  |              |                         |
|------------------|--------------|-------------------------|
| * Clitoral Gland | Inflammation | Chronic Active, Minimal |
|------------------|--------------|-------------------------|

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 685

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 0.0W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-685

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex            | * Adrenal Medulla           | * Aorta                  | * Bone                     |
| * Bone Marrow               | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Eye                       | * Harderian Gland           | * Heart                  | * Intestine Large, Cecum   |
| * Intestine Large, Colon    | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Kidney                    | * Liver                  | * Lung                     |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric    | * Mammary Gland          | * Nerve Trigeminal         |
| * Nose                      | * Ovary                     | * Pancreas               | * Parathyroid Gland        |
| * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial  | * Salivary Glands        | Skeletal Muscle            |
| * Skin                      | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar    | * Spinal Cord, Thoracic    |
| * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   |
| * Thyroid Gland             | * Trachea                   | Trigeminal Ganglion      | * Urinary Bladder          |
| * Uterus                    |                             |                          |                            |

**OBSERVATIONS**

- |                           |               |             |      |
|---------------------------|---------------|-------------|------|
| * Intestine Large, Rectum | Lymphoid Tiss | Hyperplasia | Mild |
| * Pituitary Gland         | Pars Intermed | Cyst        |      |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 700

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-700

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                             |                          |                             |
|----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex           | * Adrenal Medulla           | * Aorta                  | * Bone                      |
| * Bone Marrow              | * Brain                     | * Esophagus              | * Eye                       |
| * Harderian Gland          | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum  | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic       | * Kidney                    | * Lung                   | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric   | * Mammary Gland             | * Nerve Trigeminal       | * Nose                      |
| * Ovary                    | * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic |
| * Peripheral Nerve, Tibial | * Pituitary Gland           | * Salivary Glands        | Skeletal Muscle             |
| * Skin                     | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar    | * Spinal Cord, Thoracic     |
| * Spleen                   | * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland             |
| * Trachea                  | Trigeminal Ganglion         | * Urinary Bladder        | * Uterus                    |

OBSERVATIONS

- |  |                       |                         |
|--|-----------------------|-------------------------|
| * Clitoral Gland                                 | Inflammation          | Chronic Active, Minimal |
| * Liver  | Infiltration Cellular | Mixed Cell, Minimal     |
| * Lung   |                       |                         |
| Note: No histopathological correlate for pigment |                       |                         |
| * Thymus   | Hemorrhage            | Minimal                 |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 834

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 1.5W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-834

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                            |                             |                          |
|-----------------------------|----------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex            | * Adrenal Medulla          | * Aorta                     | * Bone                   |
| * Bone Marrow               | * Brain                    | * Clitoral Gland            | * Esophagus              |
| * Eye                       | * Harderian Gland          | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum  | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum  | * Islets, Pancreatic       | * Kidney                    | * Lung                   |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric   | * Mammary Gland             | * Nerve Trigeminal       |
| * Nose                      | * Ovary                    | * Pancreas                  | * Parathyroid Gland      |
| * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial | * Salivary Glands           | Skeletal Muscle          |
| * Skin                      | * Spinal Cord, Cervical    | * Spinal Cord, Lumbar       | * Spinal Cord, Thoracic  |
| * Spleen                    | * Stomach, Forestomach     | * Stomach, Glandular        | * Thymus                 |
| * Thyroid Gland             | * Trachea                  | Trigeminal Ganglion         | * Urinary Bladder        |
| * Uterus                    |                            |                             |                          |

**OBSERVATIONS**

- |                   |               |                       |                     |
|-------------------|---------------|-----------------------|---------------------|
| * Liver           |               | Infiltration Cellular | Mixed Cell, Minimal |
| * Pituitary Gland | Pars Intermed | Cyst                  |                     |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 835

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 1.5W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-835

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                            |                             |                          |
|-----------------------------|----------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex            | * Adrenal Medulla          | * Aorta                     | * Bone                   |
| * Bone Marrow               | * Brain                    | * Clitoral Gland            | * Esophagus              |
| * Eye                       | * Harderian Gland          | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum  | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum  | * Islets, Pancreatic       | * Kidney                    | * Liver                  |
| * Lung                      | * Lymph Node, Mesenteric   | * Mammary Gland             | * Nerve Trigeminal       |
| * Nose                      | * Ovary                    | * Pancreas                  | * Parathyroid Gland      |
| * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial | * Pituitary Gland           | * Salivary Glands        |
| Skeletal Muscle             | * Skin                     | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar    |
| * Spinal Cord, Thoracic     | * Spleen                   | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thymus                    | * Thyroid Gland            | * Trachea                   | Trigeminal Ganglion      |
| * Urinary Bladder           | * Uterus                   |                             |                          |

**OBSERVATIONS**

- |                          |            |      |
|--------------------------|------------|------|
| * Lymph Node, Mandibular | Hemorrhage | Mild |
|--------------------------|------------|------|

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 849

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 1.5W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-849

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                             |                            |
|-----------------------------|--------------------------|-----------------------------|----------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Aorta                     | * Bone                     |
| * Bone Marrow               | * Brain                  | * Esophagus                 | * Eye                      |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon    | * Intestine Large, Rectum  |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  | * Islets, Pancreatic       |
| * Liver                     | * Lung                   | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric   |
| * Mammary Gland             | * Nerve Trigeminal       | * Nose                      | * Ovary                    |
| * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial |
| * Pituitary Gland           | * Salivary Glands        | Skeletal Muscle             | * Skin                     |
| * Spinal Cord, Cervical     | * Spinal Cord, Lumbar    | * Spinal Cord, Thoracic     | * Spleen                   |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                    | * Thyroid Gland            |
| * Trachea                   | Trigeminal Ganglion      | * Urinary Bladder           | * Uterus                   |

OBSERVATIONS

- |                  |                |                         |
|------------------|----------------|-------------------------|
| * Clitoral Gland | Inflammation   | Chronic Active, Minimal |
| * Heart          | Cardiomyopathy | Minimal                 |
| * Kidney         | Nephropathy    | Chronicprogr, Minimal   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 855

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 1.5W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-855

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Aorta	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nerve Trigeminal	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Peripheral Nerve, Sciatic	* Peripheral Nerve, Tibial	* Pituitary Gland
* Salivary Glands	Skeletal Muscle	* Skin	* Spinal Cord, Cervical
* Spinal Cord, Lumbar	* Spinal Cord, Thoracic	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
Trigeminal Ganglion	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

\* Lung

Note: No histopathological correlate for pigment

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 877

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 1.5W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-877

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                             |
|-----------------------------|--------------------------|----------------------------|-----------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Aorta                    | * Bone                      |
| * Bone Marrow               | * Brain                  | * Esophagus                | * Eye                       |
| * Harderian Gland           | * Heart                  | * Intestine Large, Cecum   | * Intestine Large, Colon    |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| * Kidney                    | * Liver                  | * Lung                     | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Nerve Trigeminal         | * Nose                      |
| * Ovary                     | * Pancreas               | * Parathyroid Gland        | * Peripheral Nerve, Sciatic |
| * Peripheral Nerve, Tibial  | * Pituitary Gland        | * Salivary Glands          | Skeletal Muscle             |
| * Skin                      | * Spinal Cord, Cervical  | * Spinal Cord, Lumbar      | * Spinal Cord, Thoracic     |
| * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                    |
| * Thyroid Gland             | * Trachea                | Trigeminal Ganglion        | * Urinary Bladder           |
| * Uterus                    |                          |                            |                             |

**OBSERVATIONS**

- |                           |               |              |                         |
|---------------------------|---------------|--------------|-------------------------|
| * Clitoral Gland          |               | Inflammation | Chronic Active, Minimal |
| * Intestine Large, Rectum | Lymphoid Tiss | Hyperplasia  | Moderate                |



Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 882

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 1.5W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-882

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex            | * Adrenal Medulla           | * Aorta                  | * Bone                     |
| * Bone Marrow               | * Brain                     | * Esophagus              | * Eye                      |
| * Harderian Gland           | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Kidney                    | * Liver                  | * Lung                     |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric    | * Mammary Gland          | * Nerve Trigeminal         |
| * Nose                      | * Ovary                     | * Pancreas               | * Parathyroid Gland        |
| * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial  | * Pituitary Gland        | * Salivary Glands          |
| Skeletal Muscle             | * Skin                      | * Spinal Cord, Cervical  | * Spinal Cord, Lumbar      |
| * Spinal Cord, Thoracic     | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                    | * Thyroid Gland             | * Trachea                | Trigeminal Ganglion        |
| * Urinary Bladder           | * Uterus                    |                          |                            |

**OBSERVATIONS**

- |  |              |                          |
|--|--------------|--------------------------|
| * Clitoral Gland                       | Inflammation | Chronic Active, Moderate |
| Note: Abscess formation                |              |                          |
| * Nerve Tibial                         |              |                          |
| Note: Longitudinal section not present |              |                          |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 883

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 1.5W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-883

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                             |                            |
|-----------------------------|--------------------------|-----------------------------|----------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Aorta                     | * Bone                     |
| * Bone Marrow               | * Brain                  | * Esophagus                 | * Eye                      |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon    | * Intestine Large, Rectum  |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  | * Islets, Pancreatic       |
| * Kidney                    | * Liver                  | * Lung                      | * Lymph Node, Mesenteric   |
| * Mammary Gland             | * Nerve Trigeminal       | * Nose                      | * Ovary                    |
| * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial |
| * Pituitary Gland           | * Salivary Glands        | Skeletal Muscle             | * Skin                     |
| * Spinal Cord, Cervical     | * Spinal Cord, Lumbar    | * Spinal Cord, Thoracic     | * Spleen                   |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                    | * Thyroid Gland            |
| * Trachea                   | Trigeminal Ganglion      | * Urinary Bladder           | * Uterus                   |

OBSERVATIONS

- |                          |                |                         |
|--------------------------|----------------|-------------------------|
| * Brain                  |                |                         |
| Note: One olfactory bulb |                |                         |
| * Clitoral Gland         | Inflammation   | Chronic Active, Minimal |
| * Heart                  | Cardiomyopathy | Minimal                 |
| * Lymph Node, Mandibular | Hemorrhage     | Mild                    |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 895

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 1.5W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-895

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                            |                             |                          |
|-----------------------------|----------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex            | * Adrenal Medulla          | * Aorta                     | * Bone                   |
| * Bone Marrow               | * Brain                    | * Clitoral Gland            | * Esophagus              |
| * Eye                       | * Harderian Gland          | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum  | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum  | * Islets, Pancreatic       | * Liver                     | * Lung                   |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric   | * Mammary Gland             | * Nerve Trigeminal       |
| * Nose                      | * Ovary                    | * Pancreas                  | * Parathyroid Gland      |
| * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial | * Pituitary Gland           | * Salivary Glands        |
| Skeletal Muscle             | * Skin                     | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar    |
| * Spinal Cord, Thoracic     | * Spleen                   | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thymus                    | * Thyroid Gland            | * Trachea                   | Trigeminal Ganglion      |
| * Urinary Bladder           | * Uterus                   |                             |                          |

**OBSERVATIONS**

- |          |             |                       |
|----------|-------------|-----------------------|
| * Kidney | Nephropathy | Chronicprogr, Minimal |
|----------|-------------|-----------------------|

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 898

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 1.5W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-898

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                             |
|----------------------------|---------------------------|-----------------------------|-----------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Aorta                     | * Bone                      |
| * Bone Marrow              | * Brain                   | * Clitoral Gland            | * Esophagus                 |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     | * Lung                      |
| * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal          |
| * Nose                     | * Ovary                   | * Pancreas                  | * Peripheral Nerve, Sciatic |
| * Peripheral Nerve, Tibial | * Pituitary Gland         | * Salivary Glands           | Skeletal Muscle             |
| * Skin                     | * Spinal Cord, Cervical   | * Spinal Cord, Lumbar       | * Spinal Cord, Thoracic     |
| * Spleen                   | * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                    |
| * Thyroid Gland            | * Trachea                 | Trigeminal Ganglion         | * Urinary Bladder           |
| * Uterus                   |                           |                             |                             |

**MISSING**

- \* Parathyroid Gland

**OBSERVATIONS**

- |          |             |                       |
|----------|-------------|-----------------------|
| * Kidney | Nephropathy | Chronicprogr, Minimal |
| * Lung   |             |                       |

Note: No histopathological correlate for pigment

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 915

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 1.5W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-915

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                             |                            |
|---------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Aorta                     | * Bone                     |
| * Bone Marrow             | * Brain                     | * Esophagus                 | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lung                      | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal          | * Nose                     |
| * Ovary                   | * Pancreas                  | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial |
| * Pituitary Gland         | * Salivary Glands           | Skeletal Muscle             | * Skin                     |
| * Spinal Cord, Cervical   | * Spinal Cord, Lumbar       | * Spinal Cord, Thoracic     | * Spleen                   |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                    | * Thyroid Gland            |
| * Trachea                 | Trigeminal Ganglion         | * Urinary Bladder           | * Uterus                   |

**MISSING**

- \* Parathyroid Gland

**OBSERVATIONS**

- |                  |              |                         |
|------------------|--------------|-------------------------|
| * Clitoral Gland | Inflammation | Chronic Active, Minimal |
| * Kidney         | Nephropathy  | Chronicprogr, Minimal   |
| * Pituitary Gl   |              |                         |
- Note: Pars distalis only

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 1044

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 3.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-1044

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                             |                            |
|-----------------------------|--------------------------|-----------------------------|----------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Aorta                     | * Bone                     |
| * Bone Marrow               | * Brain                  | * Esophagus                 | * Eye                      |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon    | * Intestine Large, Rectum  |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  | * Islets, Pancreatic       |
| * Kidney                    | * Liver                  | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric   |
| * Mammary Gland             | * Nerve Trigeminal       | * Nose                      | * Ovary                    |
| * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial |
| * Pituitary Gland           | * Salivary Glands        | Skeletal Muscle             | * Skin                     |
| * Spinal Cord, Cervical     | * Spinal Cord, Lumbar    | * Spinal Cord, Thoracic     | * Spleen                   |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                    | * Thyroid Gland            |
| * Trachea                   | Trigeminal Ganglion      | * Urinary Bladder           | * Uterus                   |

OBSERVATIONS

- |                  |                    |                |                         |
|------------------|--------------------|----------------|-------------------------|
| * Clitoral Gland |                    | Inflammation   | Chronic Active, Minimal |
| * Heart          | Ventricle Rgt      | Cardiomyopathy | Minimal                 |
| * Lung           | Epithelium Alveoli | Hyperplasia    | Minimal                 |
|                  |                    | Inflammation   | Chronic Active, Minimal |

Animal Note: TGL 1 = NCL (No Corresponding Lesion)

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 1054

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 3.0W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-1054

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                            |                            |
|---------------------------|-----------------------------|----------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Aorta                    | * Bone                     |
| * Bone Marrow             | * Brain                     | * Esophagus                | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum   | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum   | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nerve Trigeminal          | * Nose                     | * Ovary                    |
| * Pancreas                | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial | * Pituitary Gland          |
| * Salivary Glands         | Skeletal Muscle             | * Skin                     | * Spinal Cord, Cervical    |
| * Spinal Cord, Lumbar     | * Spinal Cord, Thoracic     | * Spleen                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Thyroid Gland            | * Trachea                  |
| Trigeminal Ganglion       | * Urinary Bladder           | * Uterus                   |                            |

**MISSING**

- \* Parathyroid Gland

**OBSERVATIONS**

- |                  |                       |                         |
|------------------|-----------------------|-------------------------|
| * Clitoral Gland | Inflammation          | Chronic Active, Minimal |
| * Kidney         | Nephropathy           | Chronicprogr, Minimal   |
| * Liver          | Infiltration Cellular | Mixed Cell, Minimal     |
| * Lung           |                       |                         |

Note: No histopathological correlate for pigment

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 1073

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 3.0W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-1073

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                             |                             |                          |
|----------------------------|-----------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla           | * Aorta                     | * Bone                   |
| * Bone Marrow              | * Brain                     | * Clitoral Gland            | * Esophagus              |
| * Eye                      | * Harderian Gland           | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic        | * Kidney                    | * Liver                  |
| * Lung                     | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric    | * Mammary Gland          |
| * Nerve Trigeminal         | * Nose                      | * Ovary                     | * Pancreas               |
| * Parathyroid Gland        | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial  | * Pituitary Gland        |
| * Salivary Glands          | * Skin                      | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar    |
| * Spinal Cord, Thoracic    | * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thymus                   | * Thyroid Gland             | * Trachea                   | Trigeminal Ganglion      |
| * Urinary Bladder          | * Uterus                    |                             |                          |

**OBSERVATIONS**

Skeletal Muscle

Infiltration Cellular

Histiocyte, Minimal



Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 1089

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 3.0W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-1089

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                             |                          |                             |
|----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex           | * Adrenal Medulla           | * Aorta                  | * Bone                      |
| * Bone Marrow              | * Brain                     | * Esophagus              | * Eye                       |
| * Harderian Gland          | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum  | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic       | * Kidney                    | * Lung                   | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric   | * Mammary Gland             | * Nerve Trigeminal       | * Nose                      |
| * Ovary                    | * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic |
| * Peripheral Nerve, Tibial | * Pituitary Gland           | * Salivary Glands        | Skeletal Muscle             |
| * Skin                     | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar    | * Spinal Cord, Thoracic     |
| * Spleen                   | * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                    |
| * Thyroid Gland            | * Trachea                   | Trigeminal Ganglion      | * Urinary Bladder           |
| * Uterus                   |                             |                          |                             |

**OBSERVATIONS**

- |                         |                       |                          |
|-------------------------|-----------------------|--------------------------|
| * Clitoral Gland        | Inflammation          | Chronic Active, Moderate |
| Note: Abscess formation |                       |                          |
| * Liver                 | Infiltration Cellular | Mixed Cell, Minimal      |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 1090

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 3.0W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-1090

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex            | * Adrenal Medulla           | * Aorta                  | * Bone                     |
| * Bone Marrow               | * Brain                     | * Esophagus              | * Eye                      |
| * Harderian Gland           | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Kidney                    | * Liver                  | * Lung                     |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric    | * Mammary Gland          | * Nerve Trigeminal         |
| * Nose                      | * Ovary                     | * Pancreas               | * Parathyroid Gland        |
| * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial  | * Pituitary Gland        | * Salivary Glands          |
| Skeletal Muscle             | * Skin                      | * Spinal Cord, Cervical  | * Spinal Cord, Lumbar      |
| * Spinal Cord, Thoracic     | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thyroid Gland             | * Trachea                   | Trigeminal Ganglion      | * Urinary Bladder          |
| * Uterus                    |                             |                          |                            |

**OBSERVATIONS**

- |                  |              |                         |
|------------------|--------------|-------------------------|
| * Clitoral Gland | Inflammation | Chronic Active, Minimal |
| * Thymus         | Hemorrhage   | Minimal                 |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 1094

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 3.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-1094

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                             |                            |
|---------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Aorta                     | * Bone                     |
| * Bone Marrow             | * Brain                     | * Esophagus                 | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nerve Trigeminal          | * Nose                      | * Ovary                    |
| * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial |
| * Pituitary Gland         | * Salivary Glands           | Skeletal Muscle             | * Skin                     |
| * Spinal Cord, Cervical   | * Spinal Cord, Lumbar       | * Spinal Cord, Thoracic     | * Spleen                   |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                    | * Thyroid Gland            |
| * Trachea                 | Trigeminal Ganglion         | * Urinary Bladder           | * Uterus                   |

OBSERVATIONS

- |                  |              |                         |
|------------------|--------------|-------------------------|
| * Clitoral Gland | Inflammation | Chronic Active, Minimal |
| * Kidney         | Nephropathy  | Chronicprogr, Minimal   |
| * Lung           | Congestion   | Mild                    |
- [ Congestion TGLs = 1-10 ]

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 1095

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 3.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-1095

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                             |                             |                          |
|----------------------------|-----------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla           | * Aorta                     | * Bone                   |
| * Bone Marrow              | * Brain                     | * Clitoral Gland            | * Esophagus              |
| * Eye                      | * Harderian Gland           | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic        | * Kidney                    | * Liver                  |
| * Lung                     | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric    | * Mammary Gland          |
| * Nerve Trigeminal         | * Nose                      | * Ovary                     | * Pancreas               |
| * Parathyroid Gland        | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial  | * Pituitary Gland        |
| * Salivary Glands          | Skeletal Muscle             | * Skin                      | * Spinal Cord, Cervical  |
| * Spinal Cord, Lumbar      | * Spinal Cord, Thoracic     | * Spleen                    | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thymus                    | * Thyroid Gland             | * Trachea                |
| Trigeminal Ganglion        | * Urinary Bladder           | * Uterus                    |                          |

**OBSERVATIONS**

- \* Lung

Note: No histopathological correlate for pigment

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 1106

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 3.0W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-1106

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                             |
|-----------------------------|--------------------------|----------------------------|-----------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Aorta                    | * Bone                      |
| * Bone Marrow               | * Brain                  | * Esophagus                | * Eye                       |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| * Kidney                    | * Liver                  | * Lung                     | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Nerve Trigeminal         | * Nose                      |
| * Ovary                     | * Pancreas               | * Parathyroid Gland        | * Peripheral Nerve, Sciatic |
| * Peripheral Nerve, Tibial  | * Pituitary Gland        | * Salivary Glands          | Skeletal Muscle             |
| * Skin                      | * Spinal Cord, Cervical  | * Spinal Cord, Lumbar      | * Spinal Cord, Thoracic     |
| * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                    |
| * Thyroid Gland             | * Trachea                | Trigeminal Ganglion        | * Urinary Bladder           |
| * Uterus                    |                          |                            |                             |

**OBSERVATIONS**

- |                  |                |                         |
|------------------|----------------|-------------------------|
| * Clitoral Gland | Inflammation   | Chronic Active, Minimal |
| * Heart          | Cardiomyopathy | Minimal                 |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 1121

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 3.0W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-1121

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                            |                             |                          |
|-----------------------------|----------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex            | * Adrenal Medulla          | * Aorta                     | * Bone                   |
| * Bone Marrow               | * Brain                    | * Clitoral Gland            | * Esophagus              |
| * Eye                       | * Harderian Gland          | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum  | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum  | * Islets, Pancreatic       | * Liver                     | * Lung                   |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric   | * Mammary Gland             | * Nerve Trigeminal       |
| * Nose                      | * Ovary                    | * Pancreas                  | * Parathyroid Gland      |
| * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial | * Pituitary Gland           | * Salivary Glands        |
| Skeletal Muscle             | * Skin                     | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar    |
| * Spinal Cord, Thoracic     | * Spleen                   | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thymus                    | * Thyroid Gland            | * Trachea                   | Trigeminal Ganglion      |
| * Urinary Bladder           | * Uterus                   |                             |                          |

**OBSERVATIONS**

- |          |             |                       |
|----------|-------------|-----------------------|
| * Kidney | Nephropathy | Chronicprogr, Minimal |
|----------|-------------|-----------------------|

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 1126

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 3.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-1126

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Aorta	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nerve Trigeminal	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Peripheral Nerve, Sciatic	* Peripheral Nerve, Tibial	* Pituitary Gland
* Salivary Glands	Skeletal Muscle	* Skin	* Spinal Cord, Cervical
* Spinal Cord, Lumbar	* Spinal Cord, Thoracic	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
Trigeminal Ganglion	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

\* Lung

Note: No histopathological correlate for pigment

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 1263

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 6.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-1263

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

- |                            |                             |                             |                          |
|----------------------------|-----------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla           | * Aorta                     | * Bone                   |
| * Bone Marrow              | * Brain                     | * Clitoral Gland            | * Esophagus              |
| * Eye                      | * Harderian Gland           | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic        | * Kidney                    | * Liver                  |
| * Lung                     | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric    | * Mammary Gland          |
| * Nerve Trigeminal         | * Nose                      | * Ovary                     | * Pancreas               |
| * Parathyroid Gland        | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial  | * Pituitary Gland        |
| * Salivary Glands          | Skeletal Muscle             | * Skin                      | * Spinal Cord, Cervical  |
| * Spinal Cord, Lumbar      | * Spinal Cord, Thoracic     | * Spleen                    | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thymus                    | * Thyroid Gland             | * Trachea                |
| Trigeminal Ganglion        | * Urinary Bladder           | * Uterus                    |                          |

**OBSERVATIONS**

- \* Brain
  - Note: One olfactory bulb



Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 1269

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 6.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-1269

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                            |                             |                          |
|-----------------------------|----------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex            | * Adrenal Medulla          | * Aorta                     | * Bone                   |
| * Bone Marrow               | * Brain                    | * Clitoral Gland            | * Esophagus              |
| * Eye                       | * Harderian Gland          | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum  | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum  | * Islets, Pancreatic       | * Kidney                    | * Liver                  |
| * Lung                      | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric    | * Mammary Gland          |
| * Nerve Trigeminal          | * Nose                     | * Pancreas                  | * Parathyroid Gland      |
| * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial | * Pituitary Gland           | * Salivary Glands        |
| Skeletal Muscle             | * Skin                     | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar    |
| * Spinal Cord, Thoracic     | * Spleen                   | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thymus                    | * Thyroid Gland            | * Trachea                   | Trigeminal Ganglion      |
| * Urinary Bladder           | * Uterus                   |                             |                          |

OBSERVATIONS

- |         |      |
|---------|------|
| * Ovary | Cyst |
|---------|------|

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 1279

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 6.0W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-1279

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Aorta	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nerve Trigeminal	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Peripheral Nerve, Sciatic	* Peripheral Nerve, Tibial	* Pituitary Gland
* Salivary Glands	Skeletal Muscle	* Skin	* Spinal Cord, Cervical
* Spinal Cord, Lumbar	* Spinal Cord, Thoracic	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
Trigeminal Ganglion	* Urinary Bladder	* Uterus	

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 1289

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 6.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-1289

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                             |                            |
|-----------------------------|--------------------------|-----------------------------|----------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Aorta                     | * Bone                     |
| * Bone Marrow               | * Brain                  | * Esophagus                 | * Eye                      |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon    | * Intestine Large, Rectum  |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  | * Islets, Pancreatic       |
| * Liver                     | * Lung                   | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric   |
| * Mammary Gland             | * Nerve Trigeminal       | * Nose                      | * Ovary                    |
| * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial |
| * Pituitary Gland           | * Salivary Glands        | Skeletal Muscle             | * Skin                     |
| * Spinal Cord, Cervical     | * Spinal Cord, Lumbar    | * Spinal Cord, Thoracic     | * Spleen                   |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                    | * Thyroid Gland            |
| * Trachea                   | Trigeminal Ganglion      | * Urinary Bladder           | * Uterus                   |

OBSERVATIONS

- |                  |                |                          |
|------------------|----------------|--------------------------|
| * Clitoral Gland | Inflammation   | Chronic Active, Moderate |
| * Heart          | Cardiomyopathy | Minimal                  |
| * Kidney         | Nephropathy    | Chronicprogr, Minimal    |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 1293

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 6.0W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-1293

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                             |                          |                             |
|----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex           | * Adrenal Medulla           | * Aorta                  | * Bone                      |
| * Bone Marrow              | * Brain                     | * Esophagus              | * Eye                       |
| * Harderian Gland          | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum  | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic       | * Kidney                    | * Liver                  | * Lung                      |
| * Lymph Node, Mesenteric   | * Mammary Gland             | * Nerve Trigeminal       | * Nose                      |
| * Ovary                    | * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic |
| * Peripheral Nerve, Tibial | * Pituitary Gland           | * Salivary Glands        | Skeletal Muscle             |
| * Skin                     | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar    | * Spinal Cord, Thoracic     |
| * Spleen                   | * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                    |
| * Thyroid Gland            | * Trachea                   | Trigeminal Ganglion      | * Urinary Bladder           |
| * Uterus                   |                             |                          |                             |

**OBSERVATIONS**

- |                          |               |                         |
|--------------------------|---------------|-------------------------|
| * Clitoral Gland         | Inflammation  | Chronic Active, Minimal |
| * Lymph Node, Mandibular | Proliferation | Plasma Cell, Minimal    |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

ANIMAL ID: 1302

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 6.0W/kg(GSM)chr

DISP: Scheduled Sacrifice

HISTO: 12-5224-1302

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                            |                           |
|-----------------------------|-----------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla           | * Aorta                    | * Bone                    |
| * Bone Marrow               | * Brain                     | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum    | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Lung                      | * Lymph Node, Mesenteric   | * Mammary Gland           |
| * Nerve Trigeminal          | * Nose                      | * Ovary                    | * Pancreas                |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial | * Pituitary Gland         |
| * Salivary Glands           | Skeletal Muscle             | * Skin                     | * Spinal Cord, Cervical   |
| * Spinal Cord, Lumbar       | * Spinal Cord, Thoracic     | * Spleen                   | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thymus                    | * Thyroid Gland            | * Trachea                 |
| Trigeminal Ganglion         | * Urinary Bladder           | * Uterus                   |                           |

OBSERVATIONS

- |  |                              |   |
|--|------------------------------|---|
| * Clitoral Gland                                 | Inflammation                 | Chronic Active, Minimal                     |
| * Heart  | Cardiomyopathy               | Minimal                                     |
| * Liver  | Infiltration Cellular        | Mixed Cell, Minimal                         |
| * Lung   |                              |   |
| Note: No histopathological correlate for pigment |                              |   |
| * Lymph Node, Mandibular                         | Hyperplasia<br>Proliferation | Lymphocyte, Minimal<br>Plasma Cell, Minimal |

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 1315

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 6.0W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-1315

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                             |                          |                             |
|----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex           | * Adrenal Medulla           | * Aorta                  | * Bone                      |
| * Bone Marrow              | * Brain                     | * Esophagus              | * Eye                       |
| * Harderian Gland          | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum  | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic       | * Kidney                    | * Liver                  | * Lung                      |
| * Lymph Node, Mandibular   | * Lymph Node, Mesenteric    | * Mammary Gland          | * Nerve Trigeminal          |
| * Nose                     | * Ovary                     | * Pancreas               | * Peripheral Nerve, Sciatic |
| * Peripheral Nerve, Tibial | * Pituitary Gland           | * Salivary Glands        | Skeletal Muscle             |
| * Skin                     | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar    | * Spinal Cord, Thoracic     |
| * Spleen                   | * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                    |
| * Thyroid Gland            | * Trachea                   | Trigeminal Ganglion      | * Urinary Bladder           |
| * Uterus                   |                             |                          |                             |

**MISSING**

- \* Parathyroid Gland

**OBSERVATIONS**

- |                  |              |                         |
|------------------|--------------|-------------------------|
| * Clitoral Gland | Inflammation | Chronic Active, Minimal |
|------------------|--------------|-------------------------|

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 1325

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 6.0W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-1325

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                             |                             |                          |
|----------------------------|-----------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla           | * Aorta                     | * Bone                   |
| * Bone Marrow              | * Brain                     | * Clitoral Gland            | * Esophagus              |
| * Eye                      | * Harderian Gland           | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic        | * Kidney                    | * Liver                  |
| * Lung                     | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric    | * Mammary Gland          |
| * Nerve Trigeminal         | * Nose                      | * Ovary                     | * Pancreas               |
| * Parathyroid Gland        | * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial  | * Pituitary Gland        |
| Skeletal Muscle            | * Skin                      | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar    |
| * Spinal Cord, Thoracic    | * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thymus                   | * Thyroid Gland             | * Trachea                   | Trigeminal Ganglion      |
| * Urinary Bladder          | * Uterus                    |                             |                          |

**OBSERVATIONS**

- |                   |              |                  |
|-------------------|--------------|------------------|
| * Salivary Glands | Degeneration | Cystic, Moderate |
|-------------------|--------------|------------------|

Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 1334

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 6.0W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-1334

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                            |                             |                          |
|-----------------------------|----------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex            | * Adrenal Medulla          | * Aorta                     | * Bone                   |
| * Bone Marrow               | * Brain                    | * Clitoral Gland            | * Esophagus              |
| * Eye                       | * Harderian Gland          | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum  | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum  | * Islets, Pancreatic       | * Kidney                    | * Liver                  |
| * Lung                      | * Lymph Node, Mesenteric   | * Mammary Gland             | * Nerve Trigeminal       |
| * Nose                      | * Ovary                    | * Pancreas                  | * Parathyroid Gland      |
| * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial | * Pituitary Gland           | * Salivary Glands        |
| Skeletal Muscle             | * Skin                     | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar    |
| * Spinal Cord, Thoracic     | * Spleen                   | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thymus                    | * Thyroid Gland            | * Trachea                   | Trigeminal Ganglion      |
| * Urinary Bladder           | * Uterus                   |                             |                          |

**OBSERVATIONS**

- |                          |                              |   |
|--------------------------|------------------------------|---|
| * Lymph Node, Mandibular | Hyperplasia<br>Proliferation | Lymphocyte, Minimal<br>Plasma Cell, Minimal |
|--------------------------|------------------------------|---|



Experiment Number: 20105 - 59

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 01/02/2018

Time Report Requested: 12:00:01

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

Lab: IIT

**ANIMAL ID:** 1336

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 6.0W/kg(GSM)chr

**DISP:** Scheduled Sacrifice

**HISTO:** 12-5224-1336

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                            |                             |                          |
|-----------------------------|----------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex            | * Adrenal Medulla          | * Aorta                     | * Bone                   |
| * Bone Marrow               | * Brain                    | * Clitoral Gland            | * Esophagus              |
| * Eye                       | * Harderian Gland          | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum  | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum  | * Islets, Pancreatic       | * Liver                     | * Lung                   |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric   | * Mammary Gland             | * Nerve Trigeminal       |
| * Nose                      | * Ovary                    | * Pancreas                  | * Parathyroid Gland      |
| * Peripheral Nerve, Sciatic | * Peripheral Nerve, Tibial | * Pituitary Gland           | * Salivary Glands        |
| Skeletal Muscle             | * Skin                     | * Spinal Cord, Cervical     | * Spinal Cord, Lumbar    |
| * Spinal Cord, Thoracic     | * Spleen                   | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thymus                    | * Thyroid Gland            | * Trachea                   | Trigeminal Ganglion      |
| * Urinary Bladder           | * Uterus                   |                             |                          |

**OBSERVATIONS**

- |          |             |                       |
|----------|-------------|-----------------------|
| * Kidney | Nephropathy | Chronicprogr, Minimal |
|----------|-------------|-----------------------|

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