

**Experiment Number:** 99930-94  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

**Test Compound:** Endocrine disruptor (Genistein)

**CAS Number:** 446-72-0

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 17:30:02

**First Dose M/F:** NA / NA

**Lab:** NCTR

<b>C Number:</b>	MG96005
<b>Lock Date:</b>	Not Entered.
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	NONE

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Date Report Requested: 10/22/2014  
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 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F1 0PPM	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2	2	3	0	4	4	4	4	5	5	5	5	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7
		7	5	4	7	3	6	5	5	9	2	8	8	9	2	7	2	7	2	3	3	3	3	3	3	3	3	3	3
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	1	1	1	1	1	1	1	1	2	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5
		4	5	6	7	0	0	1	2	7	8	9	1	2	5	8	0	3	5	6	7	7	1	1	6	6	7	7	7
		1	2	5	5	0	3	9	3	9	6	1	2	2	9	5	7	8	8	0	0	1	7	8	3	9	0	2	5

**Alimentary System**

Esophagus	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	A	+	A	M	A	A	A	+	A	+	A	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	A	+	A	+	A	A	A	+	A	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum				+												A	A	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	A	+	A	+	A	A	A	+	A	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	A	+	A	+	A	A	A	+	A	+	A	A	+	+	A	A	+	+	+	+	A	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	A	+	A	+	A	A	A	+	A	+	A	A	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+
Adenocarcinoma																													
Liver	+	+	+	+	A	+	+	+	+	+	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+
Hepatocellular Adenoma																													
Mesentery			+																										
Pancreas	+	+	A	+	A	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Salivary Glands	+	+	A	+	A	+	A	+	+	+	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Neurofibrosarcoma			X																										
Stomach, Forestomach	+	+	A	+	A	+	A	A	A	+	A	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Glandular	+	+	A	+	A	+	A	A	A	+	A	+	A	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+

**Endocrine System**

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

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

Experiment Number: 99930-94

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Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:30:03

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

CD Rat Male F1 OPPM	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	ANIMAL ID	2	2	3	0	4	4	4	4	5	5	5	5	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
		7	5	4	7	3	3	6	5	5	9	2	8	8	9	2	7	2	7	0	7	7	3	3	3	3	3	3	3	3	3	3	3	3	
Adrenal Cortex		+	+	A	+	A	+	+	+	+	+	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Adenoma																																		X	
Adrenal Medulla		+	+	A	M	A	+	A	+	+	+	A	+	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+		
Bilateral, Pheochromocytoma Benign																																			
Pheochromocytoma Benign																																			
Pheochromocytoma Complex																																			
Islets, Pancreatic		+	+	+	+	A	+	A	+	+	+	A	+	+	+	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+		
Adenoma																																			
Parathyroid Gland		+	+	+	+	+	+	M	+	+	+	+	+	M	+	+	+	+	+	+	+	+	M	+	+	M	+	+	+	+	+	+	+	M	
Adenoma																																			
Pituitary Gland		+	+	+	+	M	+	A	+	+	+	A	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Adenoma												X	X	X				X					X	X		X	X							X	
Pars Distalis, Adenoma, Multiple																																		X	
Thyroid Gland		+	+	+	+	A	+	A	+	+	+	A	+	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C Cell, Adenoma																																			
<b>General Body System</b>																																			
NONE																																			
<b>Genital System</b>																																			
Coagulating Gland		+	+	+	+	A	+	A	A	+	+	A	+	A	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenocarcinoma, Metastatic, Prostate																																			
Ductus Deferens																																			A
Epididymis		+	+	+	+	A	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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M ..Missing tissue

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Lab: NCTR

CD Rat Male F1 OPPM	DAY ON TEST																														
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	2	2	3	0	4	4	4	4	5	5	5	5	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
	7	5	4	7	3	3	6	5	5	2	8	8	9	2	7	1	2	3	3	3	3	3	3	3	3	3	3	3	3		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	1	1	1	1	1	1	1	1	2	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5		
	4	5	6	7	0	0	1	2	7	8	9	1	2	5	8	0	3	5	6	7	7	1	1	6	6	7	7	7	7		
	1	2	5	5	3	9	3	9	6	1	2	2	9	5	7	8	8	0	0	1	7	8	3	9	0	2	5	6	3	3	
Preputial Gland	+	+	+	+	A	+	+	A	+	+	A	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Squamous Cell Carcinoma																															
Prostate	+	+	+	+	A		A				A					+	A		+	+					+						
Prostate, Dorsal Lobe	+	+	+	+	A	+	A	+	+	+	A	+	A	+	+	M	A	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenocarcinoma																															
Prostate, Ventral Lobe	+	+	+	+	A	+	A	A	+	+	A	+	+	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	
Adenocarcinoma																															
Rete Testes	+	+	+	+	+	+	M	A	M	+	M	+	+	+	+	+	+	+	M	+	+	I	I	+	+	+	+	+	+	+	
Seminal Vesicle	+	+	A	+	A	+	A	A	+	+	A	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenocarcinoma, Metastatic, Prostate																															
Testes	+	+	+	+	+		A	A	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Hematopoietic System</b>																															
Bone Marrow	+	+	A	+	A	+	A	+	+	+	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node																															
Lymph Node, Mandibular	+	+	+	+	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mesenteric	+	+	A	+	A	+	+	+	+	+	A	+	A	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen	+	+	+	+	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thymus	+	+	M	+	A	+	+	+	+	+	A	+	A	M	+	M	+	I	+	+	+	+	+	+	+	+	+	+	+		
<b>Integumentary System</b>																															
Mammary Gland	+	+	I	+	A	I	A	I	+	I	I	+	A	I	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Skin	M	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibroma																															

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Test Compound: Endocrine disruptor (Genistein)  
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Date Report Requested: 10/22/2014  
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First Dose M/F: NA / NA  
Lab: NCTR

CD Rat Male F1 OPPM	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2	2	3	0	4	4	4	4	5	5	5	5	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
		2	7	6	5	3	3	7	8	6	7	7	9	6	8	9	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		7	5	4	7	3	6	5	5	9	2	8	8	9	2	7	2	0	7	7	7	8	8	9	9	9	8	8	9	9	9	9
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	1	1	1	1	1	1	1	2	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	6	6
	4	5	6	7	0	0	1	2	7	8	9	1	2	5	8	0	3	5	6	7	7	1	1	6	6	7	7	7	9	0	3	
	1	2	5	5	0	3	9	3	9	6	1	2	2	9	5	7	8	8	0	0	1	7	8	3	9	0	2	5	6	3	3	

Lipoma  
Sarcoma

**Musculoskeletal System**

Bone, Femur	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
-------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**Nervous System**

Brain, Brain Stem	+	+	+	+	A	+	A	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Brain, Cerebellum	+	+	+	+	A	+	A	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Granular Cell Tumor Malignant																																	X
Brain, Cerebrum	+	+	+	+	A	+	A	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

**Respiratory System**

Lung	+	+	A	+	A	+	+	+	+	+	A	+	+	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Alveolar/Bronchiolar Carcinoma																																	
Nose	+	+	A	+	A	+	A	+	+	+	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Trachea	+	+	A	+	A	A	A	+	A	+	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

**Special Senses System**

Eye					+												+	A	+	+	+	+	+	+	+	+	+	+	+	+	+		
Harderian Gland					+												+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																																	
Lacrimal Gland																		+	+	+							+	+				+	

**Urinary System**

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
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CD Rat Male F1 OPPM	DAY ON TEST	ANIMAL ID																											
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	2	3	0	4	4	4	4	5	5	5	5	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7
		7	5	4	7	3	6	5	5	9	2	8	8	9	2	7	2	7	0	7	7	3	3	3	3	8	8	9	9
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	1	1	1	1	1	1	1	2	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5
		4	5	6	7	0	0	1	2	7	8	9	1	2	5	8	0	3	5	6	7	7	1	1	6	6	7	7	9
		1	2	5	5	0	3	9	3	9	6	1	2	2	5	8	7	8	8	0	0	1	7	8	3	9	0	2	3
Kidney		+	+	A	+	A	+	+	+	+	A	+	A	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	
Adenoma, Tubular																													
Urinary Bladder		+	+	A	+	A	+	A	+	+	A	+	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+
<b>SYSTEMIC LESIONS</b>																													
Multiple Organ		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Granulocytic																													
Lymphoma Malignant								X		X																			
Mesothelioma Benign																													

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CD Rat Male F1 0PPM	DAY ON TEST	ANIMAL ID																				*TOTALS
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
	9	9	9	3	3	2	2	4	4	3	3	4	4	5	5	5	9	8	9	9	9	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	8	8	8	9	
	0	0	3	3	5	5	8	8	9	9	1	1	4	7	7	7	9	0	5	5	0	
	4	5	8	9	6	7	3	4	3	9	3	4	2	5	8	9	6	3	4	5	2	5

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	37
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44
Adenocarcinoma													X									1
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51
Hepatocellular Adenoma										X												1
Mesentery																						1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Neurofibrosarcoma																						1
Stomach, Forestomach	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52

**Endocrine System**

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:04  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F1 OPPM	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS
	ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
		3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	
		9	9	3	3	2	2	4	4	3	3	4	4	5	5	5	9	8	9	9	9	3	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	8	8	8	9	9	
		0	0	3	3	5	5	8	8	9	9	1	1	4	7	7	9	0	5	5	0	3	
		4	5	8	9	6	7	3	4	3	9	3	4	2	5	8	9	6	3	4	5	0	
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Adenoma																						1	
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Bilateral, Pheochromocytoma Benign										X												1	
Pheochromocytoma Benign																	X					1	
Pheochromocytoma Complex																			X			1	
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Adenoma																			X			1	
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	+	47	
Adenoma																X						1	
Pituitary Gland		+	+	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	49	
Pars Distalis, Adenoma				X	X					X		X	X	X		X	X	X	X	X		22	
Pars Distalis, Adenoma, Multiple																					X	1	
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
C Cell, Adenoma						X																1	
<b>General Body System</b>																							
NONE																							
<b>Genital System</b>																							
Coagulating Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Adenocarcinoma, Metastatic, Prostate		X																				1	
Ductus Deferens																						0	
Epididymis		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51	

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 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically



Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:04  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male  
 F1 0PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5
	9	9	3	3	2	2	4	4	3	3	4	4	5	5	5	9	8	9	9	9	9	3
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	8	8	8	9	9	9
	4	0	3	3	5	5	8	8	9	9	1	1	4	7	7	9	0	5	5	0	0	3
	0	5	8	9	6	7	3	4	3	9	3	4	2	5	8	9	6	3	4	5	2	0
	*TOTALS																					
Preputial Gland	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Squamous Cell Carcinoma							X															1
Prostate																						8
Prostate, Dorsal Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Adenocarcinoma	X																					2
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Adenocarcinoma	X																					1
Rete Testes	+	+	+	+	+	+	+	+	+	I	I	+	+	+	+	+	+	+	+	+	A	44
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Adenocarcinoma, Metastatic, Prostate	X																					2
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>Hematopoietic System</b>																						
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Lymph Node			+					+							+		+		+			15
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Thymus	+	+	+	+	M	+	+	+	+	+	+	M	+	M	+	+	M	+	M	+	+	42
<b>Integumentary System</b>																						
Mammary Gland	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	I	+	+	41
Skin	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51
Fibroma																						1

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:04  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F1 0PPM	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
		3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5
		9	9	3	3	2	2	4	4	3	3	4	4	4	5	5	5	9	8	9	9	3
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	8	8	8	9	9
		0	0	3	3	5	5	8	8	9	9	1	1	4	7	7	9	0	5	5	0	3
		4	5	8	9	6	7	3	4	3	9	3	4	2	5	8	9	6	3	4	5	0
		<b>*TOTALS</b>																				
Lipoma		X																				1
Sarcoma																						1
<b>Musculoskeletal System</b>																						
Bone, Femur		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Nervous System</b>																						
Brain, Brain Stem		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Brain, Cerebellum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Granular Cell Tumor Malignant																						1
Brain, Cerebrum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Respiratory System</b>																						
Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Alveolar/Bronchiolar Carcinoma																						1
Nose		+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Special Senses System</b>																						
Eye		+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																						1
Lacrimal Gland																						10
<b>Urinary System</b>																						

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:04  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F1 0PPM	DAY ON TEST	ANIMAL ID																				*TOTALS		
		0739	0733	0744	0744	0744	0744	0744	0743	0743	0744	0744	0744	0745	0745	0745	0749	0748	0749	0749	0749		0749	0743
Kidney		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Adenoma, Tubular		7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	1
Urinary Bladder		3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	47
<b>SYSTEMIC LESIONS</b>		9	9	3	3	2	2	4	4	3	3	4	4	5	5	5	9	8	9	9	9	9	3	
Multiple Organ		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Leukemia Granulocytic		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lymphoma Malignant		6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	8	8	8	9	9	9	2
Mesothelioma Benign		0	0	3	3	5	5	8	8	9	9	1	1	4	7	7	7	9	0	5	5	0	3	1
		4	5	8	9	6	7	3	4	3	9	3	4	2	5	8	9	6	3	4	5	2	0	

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
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Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:04  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F1 5PPM	DAY ON TEST	ANIMAL ID																											
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	3	4	4	5	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	9	0	2	5	2	0	1	3	8	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4
	6	3	9	3	5	2	7	4	8	7	7	7	8	8	8	8	9	8	8	8	9	9	9	9	2	2	2	3	3
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	1	1	2	2	2	3	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6
	5	5	9	1	3	1	3	7	6	6	6	6	0	0	0	4	6	6	6	6	8	8	8	8	2	5	5	7	7
	3	4	9	5	2	6	1	7	3	1	2	3	4	5	6	1	1	4	5	6	5	6	7	8	8	9	8	8	

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	A	+	A	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	A	+	+	+	A	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma																												
Intestine Large, Rectum				+						+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	A	+	A	+	A	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	A	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenocarcinoma																												
Intestine Small, Jejunum	+	+	A	+	A	A	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenocarcinoma																												
Liver	+	+	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hepatocellular Adenoma																												
Hepatocellular Carcinoma																												
Mesentery																												
Pancreas	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Salivary Glands	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	A	+	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Glandular	A	+	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**Cardiovascular System**

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

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

Experiment Number: 99930-94

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:30:05

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>CD Rat Male</b>	2	3	4	4	5	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
<b>F1 5PPM</b>	9	0	2	5	2	0	1	3	8	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	
<b>ANIMAL ID</b>	6	3	9	3	5	2	7	4	8	7	7	7	7	8	8	8	8	9	8	8	8	9	9	9	9	2	2	2	3	3	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	1	1	2	2	2	3	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	
	5	5	9	1	3	1	3	7	6	6	6	6	0	0	0	4	6	6	6	6	8	8	8	8	8	2	5	5	7	7	
	3	4	9	5	2	6	1	7	3	1	2	3	4	5	6	1	1	4	5	6	5	6	7	8	8	8	9	8	8	9	4

Endocrine System

Adrenal Cortex	A	+	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																															
Adrenal Medulla	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pheochromocytoma Benign																															
Pheochromocytoma Malignant																															
Islets, Pancreatic	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																															
Parathyroid Gland	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland	A	+	+	+	A	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	
Pars Distalis, Adenoma																															
Thyroid Gland	+	+	A	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C Cell, Adenoma																															
C Cell, Carcinoma																															

General Body System

NONE

Genital System

Coagulating Gland	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Epididymis	+	+	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Penis																														
Preputial Gland	A	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:05  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F1 5PPM	DAY ON TEST																																										
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0														
ANIMAL ID	2	3	4	4	5	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7														
	9	0	2	5	2	0	1	3	8	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4													
	6	3	9	3	5	2	7	4	8	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9	2	2	2	3	3	3										
Squamous Cell Carcinoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
Prostate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Prostate, Dorsal Lobe	0	0	0	1	1	2	2	2	3	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6								
Prostate, Ventral Lobe	5	5	9	1	3	1	3	7	6	6	6	6	0	0	0	4	6	6	6	6	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8								
Rete Testes	3	4	9	5	2	6	1	7	3	1	2	3	4	5	6	1	1	4	5	6	5	6	5	6	5	6	5	6	5	6	5	6	5	6	5								
Seminal Vesicle																																											
Testes																																											
Hematopoietic System																																											
Bone Marrow																																											
Lymph Node																																											
Lymph Node, Mandibular																																											
Lymph Node, Mesenteric																																											
Spleen																																											
Thymus																																											
Integumentary System																																											
Mammary Gland																																											
Fibroadenoma																																											
Skin																																											
Basal Cell Adenoma																																											
Fibroma																																											
Keratoacanthoma																																											
Sarcoma																																											

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



Experiment Number: 99930-94

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:30:05

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

CD Rat Male F1 5PPM	DAY ON TEST	ANIMAL ID																													
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	3	4	4	5	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
		9	0	2	5	2	0	1	3	8	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
		6	3	9	3	5	2	7	4	8	7	7	7	8	8	8	8	8	9	8	8	8	9	9	9	9	9	2	2	2	3
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	1	1	2	2	2	3	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6
		5	5	9	1	3	1	3	7	6	6	6	0	0	0	4	6	6	6	6	6	8	8	8	8	2	5	5	7	7	9
		3	4	9	5	2	6	1	7	3	1	2	3	4	5	6	1	1	4	5	6	5	6	7	8	8	8	9	4	5	4
Kidney		A	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Urinary Bladder		+	+	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>SYSTEMIC LESIONS</b>																															
Multiple Organ		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymphoma Malignant			X	X				X																							

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

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



Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:05  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male  
 F1 5PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5
	3	3	4	4	4	4	5	5	5	9	9	9	9	0	0	0	2	2	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	6	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	9
	9	9	1	1	3	3	6	6	7	9	9	4	5	8	8	8	9	9	2
	5	8	2	5	0	1	5	6	7	2	3	6	1	0	1	2	6	7	6
	<b>*TOTALS</b>																		

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Adenoma																				1
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	42
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Adenocarcinoma																				1
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Adenocarcinoma																				1
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Hepatocellular Adenoma																				2
Hepatocellular Carcinoma																				1
Mesentery				+																1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:06  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F1 5PPM**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5
	3	3	4	4	4	4	5	5	5	9	9	9	9	0	0	0	2	2	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	6	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	9
	9	9	1	1	3	3	6	6	7	9	9	4	5	8	8	8	9	9	2
	5	8	2	5	0	1	5	6	7	2	3	6	1	0	1	2	6	7	6
	<b>*TOTALS</b>																		

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Adenoma																				1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Pheochromocytoma Benign														X						1
Pheochromocytoma Malignant																				1
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Adenoma																	X			3
Parathyroid Gland	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Pars Distalis, Adenoma		X			X			X	X						X	X		X		14
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
C Cell, Adenoma							X			X										2
C Cell, Carcinoma																				1

**General Body System**

NONE

**Genital System**

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Penis																				1
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:06  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 5PPM**

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

**\*TOTALS**

Squamous Cell Carcinoma																			X	3																	
Prostate																				+	+	+	+	+	9												
Prostate, Dorsal Lobe																				+	+	+	+	+	+	+	49										
Prostate, Ventral Lobe																				+	+	+	+	+	+	+	49										
Rete Testes																				I	+	+	+	+	+	+	+	+	+	+	+	+	+	47			
Seminal Vesicle																				+	+	+	+	+	+	+	+	+	+	+	+	+	+	48			
Testes																				+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
<b>Hematopoietic System</b>																																					
Bone Marrow																				+	+	+	+	+	+	+	+	+	+	+	+	+	+	49			
Lymph Node																																			13		
Lymph Node, Mandibular																				+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Lymph Node, Mesenteric																				+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Spleen																				+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48		
Thymus																				+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44		
<b>Integumentary System</b>																																					
Mammary Gland																				+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43		
Fibroadenoma																																				X	1
Skin																				+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Basal Cell Adenoma																																					1
Fibroma																																					1
Keratoacanthoma																																				X	1
Sarcoma																																					1

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:06  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 5PPM**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	
	3	3	4	4	4	4	5	5	5	9	9	9	9	0	0	0	2	2	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6	6	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	9	
	9	9	1	1	3	3	6	6	7	9	9	4	5	8	8	8	9	9	2	
	5	8	2	5	0	1	5	6	7	2	3	6	1	0	1	2	6	7	6	
	<b>*TOTALS</b>																			
Squamous Cell Papilloma	X																			1
<b>Musculoskeletal System</b>																				
Bone, Femur	+																			50
<b>Nervous System</b>																				
Brain, Brain Stem	+																			48
Brain, Cerebellum	+																			48
Brain, Cerebrum	+																			48
Granular Cell Tumor Malignant																				1
<b>Respiratory System</b>																				
Lung	+																			47
Alveolar Epith, Adenoma																				1
Nose	+																			48
Trachea	+																			47
<b>Special Senses System</b>																				
Eye	+																			42
Harderian Gland	+																			42
Lacrimal Gland	+																			9
Zymbal's Gland																				1
Squamous Cell Carcinoma																				1
<b>Urinary System</b>																				

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

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

Experiment Number: 99930-94  
Test Type: SPECIAL STUDY  
Route: DOSED FEED  
Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
Test Compound: Endocrine disruptor (Genistein)  
CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
Time Report Requested: 17:30:06  
First Dose M/F: NA / NA  
Lab: NCTR

CD Rat Male  
F1 5PPM

	DAY ON TEST																				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5		
	3	3	4	4	4	4	5	5	5	9	9	9	9	0	0	0	2	2	3		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6	6	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	9	
	9	9	1	1	3	3	6	6	7	9	9	4	5	8	8	8	9	9	2		
	5	8	2	5	0	1	5	6	7	2	3	6	1	0	1	2	6	7	6		
																				*TOTALS	
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
<b>SYSTEMIC LESIONS</b>																					
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymphoma Malignant																					3

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
+ ..Tissue examined microscopically  
X ..Lesion present  
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BLANK ..Not examined microscopically

Experiment Number: 99930-94  
Test Type: SPECIAL STUDY  
Route: DOSED FEED  
Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
Test Compound: Endocrine disruptor (Genistein)  
CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
Time Report Requested: 17:30:06  
First Dose M/F: NA / NA  
Lab: NCTR

CD Rat Male F1 100PPM	DAY ON TEST																															
		0 2 1 3	0 4 7 4	0 5 8 9	0 5 9 3	0 6 1 7	0 6 1 9	0 6 7 0	0 7 3 5	0 7 3 5	0 7 3 7	0 7 3 8	0 7 3 8	0 7 3 8	0 7 3 8	0 7 3 8	0 7 3 8	0 7 3 8	0 7 3 8	0 7 3 8	0 4 4 3	0 7 4 4	0 7 4 4	0 7 4 4	0 7 4 4	0 4 5 4	0 7 4 4	0 7 4 4				
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	1	2	2	2	3	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	7	7	7	7	7	
		3	2	0	0	3	3	2	6	6	6	0	0	0	1	1	1	6	7	8	2	2	3	7	7	7	9	1	2	2	3	
		9	0	1	4	0	2	8	4	5	6	7	8	9	0	1	2	2	1	4	0	9	0	6	7	8	6	1	4	5	6	2

Alimentary System

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

Cardiovascular System

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

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pheochromocytoma Benign																																

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
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		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	4	5	5	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
		1	7	8	9	1	1	7	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4
		3	4	9	3	7	9	0	5	5	7	8	8	8	8	8	9	8	8	8	8	3	3	4	4	4	4	4	4
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	1	2	2	2	2	3	4	4	4	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	7	7	
		3	2	0	0	3	3	2	6	6	6	0	0	0	1	1	1	6	7	8	2	2	3	7	7	7	9	1	
		9	0	1	4	0	2	8	4	5	6	7	8	9	0	1	2	2	1	4	0	0	6	7	7	8	8	6	
Islets, Pancreatic Adenoma		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	M	I	+	+	+	+	+	
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C Cell, Adenoma																													
<b>General Body System</b>																													
Tissue NOS																													
Chondrosarcoma																													
<b>Genital System</b>																													
Coagulating Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Epididymis		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Preputial Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Squamous Cell Carcinoma																													
Prostate		+						+																					
Prostate, Dorsal Lobe		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Prostate, Ventral Lobe		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Rete Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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CD Rat Male F1 100PPM	DAY ON TEST	ANIMAL ID																											
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	4	5	5	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	1	7	8	9	1	1	7	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	3	4	9	3	7	9	0	5	5	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	1	2	2	2	2	3	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	7	7	7
	3	2	0	0	3	3	2	6	6	6	0	0	0	1	1	1	6	7	8	2	2	3	7	7	7	9	1	2	2
	9	0	1	4	0	2	8	4	5	6	7	8	9	0	1	2	2	1	4	0	9	0	6	6	6	6	6	6	6

**Hematopoietic System**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node	+		+			+		+	+	+																	+		
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thymus	+	+	+	+	+	+	+	M	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

**Integumentary System**

Mammary Gland		+			+			+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenocarcinoma																													
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibrosarcoma						X																							
Sarcoma																													

**Musculoskeletal System**

Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
-------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**Nervous System**

Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Granular Cell Tumor Benign																													

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CD Rat Male F1 100PPM	DAY ON TEST	ANIMAL ID																											
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	4	5	5	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	1	7	8	9	1	1	7	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
	3	4	9	3	7	9	0	5	5	7	8	8	8	8	8	9	8	8	8	8	3	3	4	4	4	3	4	4	4
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	1	2	2	2	2	3	4	4	4	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	7	7	7	
	3	2	0	0	3	3	2	6	6	6	0	0	0	1	1	1	6	7	8	2	2	3	7	7	7	9	1	2	
	9	0	1	4	0	2	8	4	5	6	7	8	9	0	1	2	2	1	4	0	9	0	6	7	8	6	1	4	

**Respiratory System**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Chondrosarcoma, Metastatic, Uncertain Primary Site											X																	
Fibrosarcoma, Metastatic, Skin					X																							
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**Special Senses System**

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

**Urinary System**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibrosarcoma, Metastatic, Skin					X																							
Urethra																												
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**SYSTEMIC LESIONS**

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoma Malignant	X		X			X																						
Mesothelioma Malignant																												X

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CD Rat Male  
 F1 100PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	4	4	4	4	4	4	5	4	4	4	4	4	5	5	4	4	4	5
	7	7	5	9	8	8	0	9	9	9	8	0	0	9	9	9	7	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9
	6	6	7	8	9	9	2	4	4	4	4	5	7	7	8	8	0	2
	2	3	6	4	4	5	3	2	3	4	5	2	7	8	4	5	6	9
	<b>*TOTALS</b>																	

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hepatocellular Adenoma									X			X							2
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pheochromocytoma Benign					X														2

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**F1 100PPM**

	DAY ON TEST																		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	4	4	4	4	4	4	5	4	4	4	4	4	5	5	4	4	4	4	5
	7	7	5	9	8	8	0	9	9	9	9	8	0	0	9	9	9	7	2
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9
	6	6	7	8	9	9	2	4	4	4	4	5	7	7	8	8	8	0	2
	2	3	6	4	4	5	3	2	3	4	5	2	7	8	4	5	6	0	9
	<b>*TOTALS</b>																		
Islets, Pancreatic Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pars Distalis, Adenoma	X	X						X	X		X				X		X	X	22
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
C Cell, Adenoma											X								1
<b>General Body System</b>																			
Tissue NOS																			1
Chondrosarcoma																			1
<b>Genital System</b>																			
Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Squamous Cell Carcinoma		X																	1
Prostate																			2
Prostate, Dorsal Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Rete Testes	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:07  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F1 100PPM**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	4	4	4	4	4	4	5	4	4	4	4	4	5	5	4	4	4	4	5
	7	7	5	9	8	8	0	9	9	9	9	8	0	0	9	9	9	7	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9
	6	6	7	8	9	9	2	4	4	4	4	5	7	7	8	8	8	0	2
	2	3	6	4	4	5	3	2	3	4	5	2	7	8	4	5	6	0	9
	<b>*TOTALS</b>																		

**Hematopoietic System**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node	+	+		+	+	+		+										+	+	16
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	49
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Thymus	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	M	45

**Integumentary System**

Mammary Gland	+	+	+	I	+	+	I	+	+	I	+	+	+	+	+	I	+	+	+	40
Adenocarcinoma																				1
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Fibrosarcoma																				1
Sarcoma																				1

**Musculoskeletal System**

Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
-------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

**Nervous System**

Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Granular Cell Tumor Benign					X															1

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

M ..Missing tissue  
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 BLANK ..Not examined microscopically

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:07  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F1 100PPM**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	4	4	4	4	4	4	5	4	4	4	4	4	5	5	4	4	4	4	5
	7	7	5	9	8	8	0	9	9	9	9	8	0	0	9	9	9	7	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9
	6	6	7	8	9	9	2	4	4	4	4	5	7	7	8	8	8	0	2
	2	3	6	4	4	5	3	2	3	4	5	2	7	8	4	5	6	0	9
	<b>*TOTALS</b>																		

**Respiratory System**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Chondrosarcoma, Metastatic, Uncertain Primary Site																				1
Fibrosarcoma, Metastatic, Skin																				1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**Special Senses System**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Lacrimal Gland	+	+										+								10

**Urinary System**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Fibrosarcoma, Metastatic, Skin																				1
Urethra	+																			1
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**SYSTEMIC LESIONS**

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymphoma Malignant																				3
Mesothelioma Malignant																				1

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 + ..Tissue examined microscopically  
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 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 99930-94

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:30:08

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

CD Rat Male F1 500PPM	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	ANIMAL ID	2	3	5	5	5	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7			
		0	5	2	6	6	6	6	6	7	8	8	0	1	1	1	3	2	3	3	3	3	3	3	3	3	3	3	4	4	4	
		6	9	8	4	9	2	5	9	5	5	9	5	1	0	2	0	9	1	4	7	7	7	8	8	8	9	9	9	3	2	4
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	1	1	1	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	6	6	6	
		3	6	3	7	8	1	2	2	4	6	6	8	0	0	1	4	4	4	5	6	6	6	0	6	6	9	9	9	2	6	7
		8	3	3	2	5	8	0	6	2	1	8	7	1	8	9	6	7	9	7	8	9	2	7	8	0	1	2	7	0	3	

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+
Serosa, Carcinoma, Metastatic, Prostate							X																								
Intestine Large, Colon	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+
Serosa, Carcinoma, Metastatic, Prostate							X																								
Intestine Large, Rectum													+				+	+	A	A	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+
Serosa, Carcinoma, Metastatic, Prostate							X																								
Intestine Small, Ileum	A	+	+	+	+	+	A	A	+	+	+	+	+	+	+	A	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	A	+	+	+	+	+	A	A	+	+	+	+	+	+	+	A	+	+	A	A	+	+	A	+	+	+	+	+	+	+	+
Liver	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+
Carcinoma, Metastatic, Prostate							X																								
Mesentery				+																											
Oral Mucosa												+																			
Osteosarcoma												X																			
Pancreas	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Carcinoma, Metastatic, Prostate							X																								
Salivary Glands	+	+	+	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+
Stomach, Glandular	A	+	+	+	+	+	A	A	+	+	+	+	+	+	+	A	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+

Cardiovascular System

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

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

**Experiment Number:** 99930-94  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
**Test Compound:** Endocrine disruptor (Genistein)  
**CAS Number:** 446-72-0

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 17:30:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**CD Rat Male  
F1 500PPM**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	2	3	5	5	5	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
	0	5	2	6	6	6	6	7	8	8	0	1	1	1	3	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4			
	6	9	8	4	9	2	5	9	5	5	9	5	1	0	2	0	9	1	4	7	7	7	8	8	8	9	9	9	3	2	4	4		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	1	1	1	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	6	6	6	6		
	3	6	3	7	8	1	2	2	4	6	6	8	0	0	1	4	4	4	5	6	6	6	0	6	6	9	9	9	2	6	7	7		
	8	3	3	2	5	8	0	6	2	1	8	7	1	8	9	6	7	9	7	7	8	9	2	7	8	0	1	2	7	0	3	3		
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Endocrine System</b>																																		
Adrenal Cortex	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																X																		
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pheochromocytoma Benign																																		X
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																X			X															
Carcinoma														X																				
Carcinoma, Metastatic, Prostate							X																											
Parathyroid Gland	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Adenoma							X	X		X				X			X	X				X	X						X	X	X			
Pars Distalis, Adenoma, Multiple																																		
Thyroid Gland	A	+	+	+	+	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	
C Cell, Adenoma							X																											
C Cell, Carcinoma																																		
<b>General Body System</b>																																		
Tissue NOS							+																											
Abdominal, Carcinoma, Metastatic, Prostate							X																											

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
+ ..Tissue examined microscopically  
X ..Lesion present  
I ..Insufficient tissue  
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Experiment Number: 99930-94

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:30:08

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

CD Rat Male F1 500PPM	DAY ON TEST																												
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	3	5	5	5	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	0	5	2	6	6	6	6	6	7	8	8	0	1	1	1	3	2	3	3	3	3	3	3	3	3	3	3	3	3
	6	9	8	4	9	2	5	9	5	5	9	5	1	0	2	0	9	1	4	7	7	7	8	8	9	9	9	9	9
ANIMAL ID		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	1	1	1	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	6
	3	6	3	7	8	1	2	2	4	6	6	8	0	0	1	4	4	4	5	6	6	6	0	6	6	9	9	9	
	8	3	3	2	5	8	0	6	2	1	8	7	1	8	9	6	7	9	7	7	8	9	2	7	8	0	1	2	

Genital System

Coagulating Gland	A	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+
Carcinoma, Metastatic, Prostate							X																						
Epididymis	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Carcinoma, Metastatic, Prostate							X																						
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Squamous Cell Carcinoma												X																	
Prostate																													
Prostate, Dorsal Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Carcinoma							X																						
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	M	+	+	+	+	+	+	+	+	+	+
Carcinoma							X																						
Rete Testes	+	+	+	M	+	A	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+
Seminal Vesicle	A	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+
Carcinoma, Metastatic, Prostate							X																						
Testes	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Capsule, Carcinoma, Metastatic, Prostate							X																						
Seminoma Benign																													

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+
Lymph Node												+	+																
Lymph Node, Mandibular	+	+	+	+	+	A	+	+	+	+	A	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+

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

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



Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:09  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F1 500PPM	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ANIMAL ID	2	3	5	5	5	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
		0	5	2	6	6	6	6	6	7	8	8	0	1	1	1	3	2	3	3	3	3	3	3	3	3	3	3	3
		6	9	8	4	9	2	5	9	5	5	9	5	1	0	2	0	9	1	4	7	7	7	8	8	8	9	9	9
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	1	1	1	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5
		3	6	3	7	8	1	2	2	4	6	6	8	0	0	1	4	4	4	5	6	6	6	0	6	6	9	9	9
		8	3	3	2	5	8	8	2	6	2	1	8	7	1	8	9	6	7	9	7	8	9	2	7	8	0	1	2
Lymph Node, Mesenteric	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	M	A	+	+	+	+	+	+	+	+	+	+
Spleen	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+
Sarcoma											X																		
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	A	+	+	M	+	M	+	+	+	+
<b>Integumentary System</b>																													
Mammary Gland	A	+	+	+	+	A	A	+	+	+	I	A	I	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+
Fibroadenoma				X																									
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibroma																													
Keratoacanthoma																													
Lipoma					X																								
<b>Musculoskeletal System</b>																													
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skeletal Muscle								+																					
Carcinoma, Metastatic, Prostate								X																					
<b>Nervous System</b>																													
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	A	+	+	+	+	+	+	+	+	+
Brain, Cerebellum	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	A	A	+	+	+	+	+	+	+	+	+
Brain, Cerebrum	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+
Granular Cell Tumor Malignant																													
<b>Respiratory System</b>																													

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

Experiment Number: 99930-94

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:30:09

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

CD Rat Male F1 500PPM	DAY ON TEST	ANIMAL ID																											
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	3	5	5	5	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
		0	5	2	6	6	6	6	7	8	8	0	1	1	1	3	2	3	3	3	3	3	3	3	3	3	3	4	4
		6	9	8	4	9	2	5	9	5	5	9	5	1	0	2	0	9	1	4	7	7	7	8	8	8	9	9	9
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	1	1	1	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	6
		3	6	3	7	8	1	2	2	4	6	6	8	0	0	1	4	4	4	5	6	6	6	0	6	6	9	9	
		8	3	3	2	5	8	0	6	2	1	8	7	1	8	9	6	7	9	7	7	8	9	2	7	8	0	1	

Respiratory System

Lung	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Carcinoma, Metastatic, Prostate							X																													
Nose	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Squamous Cell Carcinoma															X	X																				
Trachea	+	+	+	+	+	A	A	+	+	+	A	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Special Senses System

Eye						A							+			+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Adventitia, Squamous Cell Carcinoma															X																						
Harderian Gland				+									+				+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lacrimal Gland							+		+		+		+	+						+				+	+	+											+
Zymbal's Gland							+																														
Squamous Cell Carcinoma					X																																

Urinary System

Kidney	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Urethra																																					+
Urinary Bladder	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Serosa, Carcinoma, Metastatic, Prostate						X																															

SYSTEMIC LESIONS

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymphoma Malignant				X									X																								

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:09  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male  
 F1 500PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	4	4	4	4
	3	5	5	4	6	5	9	8	8	8	8	9	9	9	0	9	9	9	9
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8
	9	2	2	2	6	6	8	8	8	9	9	4	4	4	5	7	8	9	9
	7	7	8	9	4	7	3	8	8	9	0	1	7	8	9	0	3	8	9
	*TOTALS																		

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Serosa, Carcinoma, Metastatic, Prostate																				1
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Serosa, Carcinoma, Metastatic, Prostate																				1
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	34
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Serosa, Carcinoma, Metastatic, Prostate																				1
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Carcinoma, Metastatic, Prostate																				1
Mesentery																				1
Oral Mucosa																				1
Osteosarcoma																				1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Carcinoma, Metastatic, Prostate																				1
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44

**Cardiovascular System**

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:09  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male  
 F1 500PPM

	DAY ON TEST																		*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	4	4	4	
	3	5	5	4	6	5	9	8	8	8	8	9	9	9	0	9	9	9	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	
	9	2	2	2	6	6	8	8	8	9	9	4	4	4	5	7	8	9	
	7	7	8	9	4	7	3	8	9	0	1	7	8	9	0	3	8	9	
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Endocrine System</b>																			
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																		1	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pheochromocytoma Benign	X								X			X			X	X		7	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma										X								X	
Carcinoma																		1	
Carcinoma, Metastatic, Prostate																		1	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	+	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Adenoma		X	X		X	X	X			X	X			X			X	X	
Pars Distalis, Adenoma, Multiple								X										1	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C Cell, Adenoma																		1	
C Cell, Carcinoma																	X	1	
<b>General Body System</b>																			
Tissue NOS																		1	
Abdominal, Carcinoma, Metastatic, Prostate																		1	

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:09  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male  
 F1 500PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	4	4	4
	3	5	5	4	6	5	9	8	8	8	9	9	9	9	0	9	9	9
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8
	9	2	2	2	6	6	8	8	8	9	9	4	4	4	5	7	8	9
	7	7	8	9	4	7	3	8	9	0	1	7	8	9	0	9	3	8
	*TOTALS																	

**Genital System**

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	+	45
Carcinoma, Metastatic, Prostate																				1
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Carcinoma, Metastatic, Prostate																				1
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Squamous Cell Carcinoma								X												2
Prostate									+											2
Prostate, Dorsal Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Carcinoma																				1
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Carcinoma																				1
Rete Testes	+	+	+	+	+	M	+	+	I	+	+	+	+	+	+	+	+	+	+	44
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Carcinoma, Metastatic, Prostate																				1
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Capsule, Carcinoma, Metastatic, Prostate																				1
Seminoma Benign																				1

**Hematopoietic System**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Lymph Node				+						+	+						+			8
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	46

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 + ..Tissue examined microscopically  
 X ..Lesion present  
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Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

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Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:10  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 500PPM**

	DAY ON TEST																		*TOTALS
	0 7 4 3	0 7 4 5	0 7 4 5	0 7 4 4	0 7 4 6	0 7 4 5	0 7 4 9	0 7 4 8	0 7 4 8	0 7 4 8	0 7 4 8	0 7 4 9	0 7 4 9	0 7 4 9	0 7 5 0	0 7 4 9	0 7 4 9	0 7 4 9	
ANIMAL ID	0 0 6 9 7	0 0 7 2 7	0 0 7 2 8	0 0 7 2 9	0 0 7 6 4	0 0 7 6 7	0 0 7 8 3	0 0 7 8 8	0 0 7 8 8	0 0 7 8 9	0 0 7 8 9	0 0 7 9 4	0 0 7 9 4	0 0 7 9 4	0 0 7 9 5	0 0 7 9 7	0 0 7 9 8	0 0 7 9 8	0 0 7 9 9
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Sarcoma																			1
Thymus	I	+	+	+	+	I	+	+	+	+	+	+	+	M	+	+	M	+	42
<b>Integumentary System</b>																			
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	+	+	42
Fibroadenoma																			2
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Fibroma												X							1
Keratoacanthoma	X																		1
Lipoma																	X		2
<b>Musculoskeletal System</b>																			
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Skeletal Muscle																			1
Carcinoma, Metastatic, Prostate																			1
<b>Nervous System</b>																			
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Granular Cell Tumor Malignant																			1
<b>Respiratory System</b>																			

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
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Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:10  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 500PPM**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	4	4	4
	3	5	5	4	6	5	9	8	8	8	8	9	9	9	9	0	9	9	9
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8
	9	2	2	2	6	6	8	8	8	9	9	4	4	4	5	7	8	9	9
	7	7	8	9	4	7	3	8	9	0	1	7	8	9	0	3	8	9	9
	<b>*TOTALS</b>																		

**Respiratory System**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Carcinoma, Metastatic, Prostate																				1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Squamous Cell Carcinoma																				2
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46

**Special Senses System**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	35
Adventitia, Squamous Cell Carcinoma																				1
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	37
Lacrimal Gland			+	+			+													14
Zymbal's Gland																				1
Squamous Cell Carcinoma																				1

**Urinary System**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Urethra																				1
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Serosa, Carcinoma, Metastatic, Prostate																				1

**SYSTEMIC LESIONS**

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymphoma Malignant																				2

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

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

Experiment Number: 99930-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:30:10

First Dose M/F: NA / NA

Lab: NCTR

Table with columns for DAY ON TEST and ANIMAL ID. Rows are labeled CD Rat Male and F1 5PPM/CTL. Data contains numerical counts for each animal across multiple days.

Alimentary System

Table listing various organs under the Alimentary System (Esophagus, Intestine Large, Intestine Small, Liver, etc.) and their corresponding findings (+, A, X) across 30 animal IDs.

Cardiovascular System

Table listing organs under the Cardiovascular System (Blood Vessel, Heart) and their corresponding findings (+, A).

Endocrine System

Table listing organs under the Endocrine System (Adrenal Cortex Adenoma) and their corresponding findings (+, A, X).

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

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



Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:10  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F1 5PPM/CTL	DAY ON TEST																													
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	4	4	5	5	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
ANIMAL ID																														
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	1	1	1	2	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	6	6	6	6	
9	2	7	9	5	0	1	2	6	0	1	3	4	5	7	7	1	2	7	7	9	9	9	9	9	9	0	2	3	3	
2	1	6	9	4	2	9	9	6	9	0	6	8	9	2	3	7	3	5	3	4	7	4	5	6	7	2	4	6	7	
Adrenal Medulla	+	+	+	A	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bilateral, Pheochromocytoma Benign																														X
Pheochromocytoma Benign																														X
Pheochromocytoma Malignant																														X
Islets, Pancreatic	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	M	+	+	+	+	+	+	+	+	+	
Pituitary Gland	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Adenoma				X					X	X	X	X	X	X	X		X						X				X			
Thyroid Gland	+	+	+	A	+	+	A	+	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C Cell, Adenoma																													X	
Follicular Cel, Adenoma																		X												
<b>General Body System</b>																														
NONE																														
<b>Genital System</b>																														
Coagulating Gland	+	+	+	A	+	A	A	+	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Penis				+																										
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Sarcoma																													X	
Squamous Cell Carcinoma							X																							
Prostate				+	+					+							+									+				
Prostate, Dorsal Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:11  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F1 5PPM/CTL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ANIMAL ID	4	4	5	5	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
		0	8	6	8	2	5	6	6	8	1	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		6	6	5	4	7	5	5	9	9	3	3	4	1	4	7	7	7	8	6	9	9	8	9	9	9	9	9	9	9
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	1	1	1	2	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6
		9	2	7	9	5	0	1	2	6	0	1	3	4	5	7	7	7	1	2	7	7	9	9	9	9	9	0	2	3
		2	1	6	9	4	2	9	9	6	9	0	6	8	9	2	3	7	3	5	3	4	7	7	4	5	6	7	8	2
Prostate, Ventral Lobe Adenoma		+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Rete Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Seminal Vesicle		+	+	A	A	+	A	A	+	A	+	+	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Hematopoietic System</b>																														
Bone Marrow		+	+	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node																	+	+							+	+				
Lymph Node, Mandibular Fibrosarcoma, Metastatic, Skin		+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node, Mesenteric		+	+	+	+	+	A	+	+	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thymus		+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+
<b>Integumentary System</b>																														
Mammary Gland		+		A	+		A	A		+	+	+	+	+		+	+	+	+	+	+	+	+	+		+	+	+	+	
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibroma																														
Fibrosarcoma																														
Lipoma																														
Sarcoma																														
Schwannoma Malignant																														
Sebaceous GI, Carcinoma																														

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



Experiment Number: 99930-94

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:30:11

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

CD Rat Male F1 5PPM/CTL	DAY ON TEST	ANIMAL ID																												
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	4	5	5	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
		0	8	6	8	2	5	6	6	8	1	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		6	6	5	4	7	5	5	9	9	3	3	4	1	4	7	7	8	6	9	9	8	9	9	9	9	9	9	9	9
Kidney		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Urethra		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Urinary Bladder		0	1	1	1	2	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5
SYSTEMIC LESIONS		9	2	7	9	5	0	1	2	6	0	1	3	4	5	7	7	7	1	2	7	7	7	9	9	9	9	9	9	
Multiple Organ		2	1	6	9	4	2	9	9	6	9	0	6	8	9	2	3	7	3	5	3	4	7	4	5	6	7	8	2	4
Leukemia Mononuclear		+	+	+	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymphoma Malignant		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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 + ..Tissue examined microscopically  
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Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:11  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male  
 F1 5PPM/CTL

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

\*TOTALS

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	37
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	42
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Hepatocellular Adenoma																			1
Mesentery								+											1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Adenoma																			2

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
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M ..Missing tissue  
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 BLANK ..Not examined microscopically

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:11  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F1 5PPM/CTL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS
	ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
		4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	
		3	3	4	4	4	4	5	9	9	8	9	0	0	0	0	2	2	2	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		6	7	7	7	7	7	7	7	7	8	8	8	8	8	8	9	9	9	
		8	0	1	3	4	4	7	9	9	0	5	6	9	9	9	0	2	2	
		5	0	6	7	0	1	4	8	9	4	6	0	2	3	4	5	3	0	
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Bilateral, Pheochromocytoma Benign																				1
Pheochromocytoma Benign																	X			2
Pheochromocytoma Malignant																				1
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Pars Distalis, Adenoma		X		X			X				X				X		X	X	X	18
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
C Cell, Adenoma																				1
Follicular Cel, Adenoma																				1
<b>General Body System</b>																				
NONE																				
<b>Genital System</b>																				
Coagulating Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Epididymis		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Penis																				1
Preputial Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Sarcoma																				1
Squamous Cell Carcinoma													X							2
Prostate									+							+	+			8
Prostate, Dorsal Lobe		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
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Experiment Number: 99930-94  
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CD Rat Male F1 5PPM/CTL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ANIMAL ID	*TOTALS
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	0	
	3	3	4	4	4	4	5	9	9	8	9	0	0	0	0	0	2	2	2	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	9	9	9	6	
	8	0	1	3	4	4	7	9	9	0	5	6	9	9	9	9	0	2	2	8	
	5	0	0	6	7	0	1	4	8	9	4	6	0	2	3	4	5	3	0	5	
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Adenoma																				1	
Rete Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43	
Testes	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
<b>Hematopoietic System</b>																					
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Lymph Node				+		+				+	+	+	+			+			+	14	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Fibrosarcoma, Metastatic, Skin																				1	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	47	
<b>Integumentary System</b>																					
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	42	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Fibroma														X						2	
Fibrosarcoma																				1	
Lipoma									X											1	
Sarcoma																				1	
Schwannoma Malignant																				1	
Sebaceous GI, Carcinoma				X																1	

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:11  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F1 5PPM/CTL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
		4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	
		3	3	4	4	4	4	5	9	9	8	9	9	0	0	0	2	2	2	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		6	7	7	7	7	7	7	7	7	8	8	8	8	8	8	9	9	9	
		8	0	1	3	4	4	7	9	9	0	5	6	9	9	9	0	2	2	
		5	0	6	7	0	1	4	8	9	4	6	0	2	3	4	5	3	3	
		<b>*TOTALS</b>																		
Squamous Cell Carcinoma																				1
<b>Musculoskeletal System</b>																				
Bone, Femur		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Nervous System</b>																				
Brain, Brain Stem		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Brain, Cerebellum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Granular Cell Tumor Benign																				1
Brain, Cerebrum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Respiratory System</b>																				
Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibrosarcoma, Metastatic, Skin																				1
Squamous Cell Carcinoma, Metastatic,																				1
Preputial Gland																				
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Special Senses System</b>																				
Eye		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lacrimal Gland					+														+	
<b>Urinary System</b>																				

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



Experiment Number: 99930-94

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:30:12

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

CD Rat Male F1 5PPM/CTL	DAY ON TEST	ANIMAL ID																		*TOTALS
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5		
	3	3	4	4	4	4	5	9	9	8	9	9	0	0	0	0	2	2		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	6	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	9	9		
	8	0	1	3	4	4	7	9	9	0	5	6	9	9	9	0	2	2		
	5	0	6	7	0	1	4	8	9	4	6	0	2	3	4	5	3	0		
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Urethra																				
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
<b>SYSTEMIC LESIONS</b>																				
Multiple Organ		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Leukemia Mononuclear																				
Lymphoma Malignant																				

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:12  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F1 100PPM/CTL	DAY ON TEST	ANIMAL ID																											
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	3	3	4	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
		6	5	6	5	0	0	1	2	3	4	4	7	7	0	0	2	3	3	3	3	3	3	3	3	3	3	3	3
		7	0	2	6	3	5	0	7	1	4	8	6	8	2	3	2	7	7	7	8	8	8	8	8	8	8	8	8
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	1	2	2	2	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	5	5	5	5	6
		4	6	6	1	1	2	2	4	6	8	9	4	4	8	9	3	7	7	7	0	1	1	1	2	2	7	8	3
		2	1	4	6	7	5	6	0	9	6	0	6	9	8	1	0	4	5	6	3	4	5	9	0	6	9	3	1

**Alimentary System**

Esophagus	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+
Intestine Large, Cecum	+	+	A	A	A	+	+	M	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+
Intestine Large, Colon	+	+	A	A	A	+	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+
Intestine Large, Rectum															+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	
Intestine Small, Duodenum	+	+	A	A	A	+	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	
Intestine Small, Ileum	+	A	A	A	A	+	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	
Adenocarcinoma																															
Intestine Small, Jejunum	+	A	A	A	A	+	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	
Liver	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	
Cholangiocarcinoma					X																										
Hepatocellular Adenoma																															
Mesentery														+																	
Pancreas	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	
Salivary Glands	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	
Stomach, Forestomach	+	+	+	A	A	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	
Stomach, Glandular	+	+	A	A	A	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	

**Cardiovascular System**

Blood Vessel	+	+	A	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	A	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**Endocrine System**

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:12  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F1 100PPM/CTL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	ANIMAL ID	2	3	3	4	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7			
		6	5	6	5	0	0	1	2	3	4	4	7	7	0	0	2	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4			
Adrenal Cortex		+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Adenoma																																						
Adrenal Medulla		+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Pheochromocytoma Malignant																																						
Islets, Pancreatic		+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Adenoma																																						
Parathyroid Gland		+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Adenoma					X									X		X	X	X	X								X	X		X								
Thyroid Gland		+	+	A	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
C Cell, Carcinoma																																						
General Body System																																						
NONE																																						
Genital System																																						
Coagulating Gland		+	+	+	A	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenocarcinoma, Metastatic, Prostate					X																																	
Epididymis		+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Preputial Gland		+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adventitia, Squamous Cell Carcinoma																																						
Squamous Cell Carcinoma																																						
Prostate																																						
Prostate, Dorsal Lobe		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:12  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F1 100PPM/CTL	DAY ON TEST	ANIMAL ID																																	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
		2	3	3	4	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7						
		6	5	6	5	0	0	1	2	3	4	4	7	7	0	0	2	3	3	3	3	3	3	3	3	3	3	4	4	4					
		7	0	2	6	3	5	0	7	1	4	8	6	8	2	3	2	7	7	7	8	8	8	8	8	8	8	7	2	4					
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
		0	0	0	1	2	2	2	2	2	2	2	3	3	3	3	4	4	4	4	4	5	5	5	5	5	5	5	6	6					
		4	6	6	1	1	2	2	4	6	8	9	4	4	8	9	3	7	7	7	0	1	1	1	2	2	7	8	3	7					
		2	1	4	6	7	5	6	0	9	6	0	6	9	8	1	0	4	5	6	3	4	5	9	0	6	9	3	1	2	9	1			
Adenocarcinoma				X																															
Prostate, Ventral Lobe		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+				
Adenocarcinoma				X																															
Rete Testes		+	+	+	+	M	M	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I		
Seminal Vesicle		+	+	+	A	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+			
Adenocarcinoma, Metastatic, Prostate				X																															
Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	A		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
<b>Hematopoietic System</b>																																			
Bone Marrow		+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+			
Lymph Node									+													+									+				
Lymph Node, Mandibular		+	+	A	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+			
Lymph Node, Mesenteric		+	+	A	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+			
Spleen		+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+			
Hemangiosarcoma																																		X	
Thymus		I	+	+	A	+	+	I	+	M	+	+	+	+	M	+	I	I	+	+	+	+	+	+	+	M	+	+	A	+	+	+			
<b>Integumentary System</b>																																			
Mammary Gland		I	+	M	I	I	+	I	I	M	+	I	I	+	M	+	+	+	+	+	+	+	+	+	+	+	A	+	+	I	+				
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Keratoacanthoma																																			
Lipoma															X																				
Sarcoma																																			X
Schwannoma Benign																																			

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

Experiment Number: 99930-94

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:30:13

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

DAY ON TEST	ANIMAL ID																													
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	3	3	4	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
6	5	6	5	0	0	1	2	3	4	4	7	7	0	0	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4
7	0	2	6	3	5	0	7	1	4	8	6	8	2	3	2	7	7	7	8	8	8	8	8	8	7	2	2	4	4	

Squamous Cell Carcinoma X

**Musculoskeletal System**

Bone, Cranium																															
Osteoma																															
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**Nervous System**

Brain, Brain Stem	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+
Brain, Cerebellum	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+
Astrocytoma Malignant																															
Granular Cell Tumor Malignant																															
Brain, Cerebrum	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+
Astrocytoma Malignant																															
Granular Cell Tumor Benign																															
Granular Cell Tumor Malignant																															

**Respiratory System**

Lung	+	+	A	A	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Nose	+	+	A	A	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+
Squamous Cell Carcinoma																															
Trachea	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+

**Special Senses System**

Eye																															

\* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 99930-94

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:30:13

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

CD Rat Male F1 100PPM/CTL	DAY ON TEST																																
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	2	3	3	4	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7				
	6	5	6	5	0	0	1	2	3	4	4	7	7	0	0	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4			
	7	0	2	6	3	5	0	7	1	4	8	6	8	2	3	2	7	7	7	8	8	8	8	8	8	7	2	2	4	4			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	1	2	2	2	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	5	5	5	5	6	6	6			
	4	6	6	1	1	2	2	4	6	8	9	4	4	8	9	3	7	7	7	0	1	1	1	2	2	7	8	3	3	7			
	2	1	4	6	7	5	6	0	9	6	0	6	9	8	1	0	4	5	6	3	4	5	9	0	6	6	3	1	2	9			
Eye																																	
Harderian Gland																																	
Lacrimal Gland																																	
Zymbal's Gland																																	
Carcinoma																																	
Urinary System																																	
Kidney																																	
Urethra																																	
Urinary Bladder																																	
SYSTEMIC LESIONS																																	
Multiple Organ																																	
Lymphoma Malignant																																	

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:13  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male  
 F1 100PPM/CTL

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	4	4	4	4	4	4	4	4	4	5	4	5	4	4	5	4	5	5	
	5	5	4	6	6	6	5	5	9	8	0	9	9	2	7	2	2		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	8	8	8	8	8	9	9	9	9	
	3	3	4	6	6	7	7	7	8	9	2	5	8	9	9	0	0	2	
	3	4	3	8	9	0	2	3	5	7	5	7	7	0	1	1	6	1	2
	<b>*TOTALS</b>																		

**Alimentary System**

Esophagus	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Intestine Large, Cecum	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	42
Intestine Large, Colon	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Intestine Large, Rectum	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	33
Intestine Small, Duodenum	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Intestine Small, Ileum	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	42
Adenocarcinoma																			X	1
Intestine Small, Jejunum	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	42
Liver	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Cholangiocarcinoma																				1
Hepatocellular Adenoma			X																	1
Mesentery																				1
Pancreas	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Salivary Glands	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Stomach, Forestomach	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Stomach, Glandular	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48

**Endocrine System**

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:13  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F1 100PPM/CTL	DAY ON TEST																		*TOTALS
	0 7 4 5	0 7 4 5	0 7 4 5	0 7 4 6	0 7 4 6	0 7 4 6	0 7 4 5	0 7 4 5	0 7 4 9	0 7 4 8	0 7 4 0	0 7 5 9	0 7 4 0	0 7 4 9	0 7 4 9	0 7 5 2	0 7 4 7	0 7 5 2	
ANIMAL ID	0 0 7 3 3	0 0 7 3 4	0 0 7 4 3	0 0 7 6 8	0 0 7 6 9	0 0 7 7 0	0 0 7 7 2	0 0 7 7 3	0 0 7 7 5	0 0 7 7 8	0 0 7 7 9	0 0 8 8 5	0 0 7 8 7	0 0 8 8 8	0 0 8 8 9	0 0 8 8 9	0 0 9 9 0	0 0 9 9 1	0 0 9 9 6
Adrenal Cortex	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Adenoma																	X		1
Adrenal Medulla	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Pheochromocytoma Malignant									X										1
Islets, Pancreatic	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Adenoma																			1
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	47
Pituitary Gland	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	I	48
Pars Distalis, Adenoma			X	X							X		X						13
Thyroid Gland	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44
C Cell, Carcinoma																			1
<b>General Body System</b>																			
NONE																			
<b>Genital System</b>																			
Coagulating Gland	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Adenocarcinoma, Metastatic, Prostate																			1
Epididymis	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Preputial Gland	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Adventitia, Squamous Cell Carcinoma																			1
Squamous Cell Carcinoma	X																		1
Prostate			+									+							6
Prostate, Dorsal Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

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



Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:13  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 100PPM/CTL**

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

**\*TOTALS**

Adenocarcinoma																				1
Prostate, Ventral Lobe	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Adenocarcinoma																				1
Rete Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Seminal Vesicle	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Adenocarcinoma, Metastatic, Prostate																				1
Testes	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
<b>Hematopoietic System</b>																				
Bone Marrow	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Lymph Node		+							+	+	+	+	+		+		+	+		14
Lymph Node, Mandibular	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Lymph Node, Mesenteric	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Spleen	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Hemangiosarcoma																				1
Thymus	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	40
<b>Integumentary System</b>																				
Mammary Gland	+	+	A	+	+	+	+	I	+	I	+	+	+	I	+	+	+	+	+	34
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Keratoacanthoma				X																1
Lipoma																				1
Sarcoma																				1
Schwannoma Benign	X																			1

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:13  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 100PPM/CTL**

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

**\*TOTALS**

Squamous Cell Carcinoma																			1
<b>Musculoskeletal System</b>																			
Bone, Cranium																			1
Osteoma																			1
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>Nervous System</b>																			
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Astrocytoma Malignant																			1
Granular Cell Tumor Malignant																			1
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Astrocytoma Malignant							X												1
Granular Cell Tumor Benign			X																1
Granular Cell Tumor Malignant																			1
<b>Respiratory System</b>																			
Lung	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44
Nose	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Squamous Cell Carcinoma																			1
Trachea	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
<b>Special Senses System</b>																			
Eye	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	33

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

Experiment Number: 99930-94

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:30:14

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

CD Rat Male F1 100PPM/CTL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS
	ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
		4	4	4	4	4	4	4	4	4	5	4	5	4	4	5	4	5	5	
		5	5	4	6	6	6	5	5	9	8	0	9	0	9	9	2	7	2	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		7	7	7	7	7	7	7	7	7	8	8	8	8	8	9	9	9	9	
		3	3	4	6	6	7	7	7	8	9	2	5	8	9	0	0	2	2	
		3	4	3	8	9	0	2	3	5	7	5	7	7	0	1	1	6	1	
Eye		+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	33
Harderian Gland		+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	33
Lacrimal Gland		+	+		+	+						+						+	+	12
Zymbal's Gland																				1
Carcinoma																				1
<b>Urinary System</b>																				
Kidney		+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Urethra																			+	1
Urinary Bladder		+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
<b>SYSTEMIC LESIONS</b>																				
Multiple Organ		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymphoma Malignant																				2

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

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

Experiment Number: 99930-94

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:30:14

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

DAY ON TEST	ANIMAL ID																												
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>CD Rat Male</b>	4	5	5	5	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
<b>F1 500PPM/CTL</b>	4	3	6	8	7	7	9	9	0	1	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4
	9	4	8	8	4	5	8	9	5	1	1	7	7	7	8	8	8	8	8	8	8	8	9	9	4	4	3	3	4
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	2	3	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5	6	6	6	6	6	6	7
	0	3	8	0	4	4	8	8	9	0	3	4	7	7	8	1	2	2	2	2	7	8	9	0	0	3	3	3	8
	5	8	0	2	3	8	1	4	6	0	4	1	8	9	0	6	1	2	3	4	8	0	9	0	1	3	4	5	0

Alimentary System

Esophagus	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	A	A	A	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	A	+	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma																													
Intestine Large, Rectum									A	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	A	A	A	+	+	+	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Sarcoma																													
Intestine Small, Ileum	A	A	A	+	+	A	+	+	A	+	+	A	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	A	A	A	+	+	A	+	+	A	+	+	A	+	+	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+
Liver	A	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hepatocellular Adenoma		X																											
Mesentery																													
Pancreas	A	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Acinar Cell, Adenoma																													
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Glandular	A	A	+	+	+	+	+	+	A	+	+	A	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Cardiovascular System

Blood Vessel	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:14  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 500PPM/CTL**

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

**Endocrine System**

Adrenal Cortex Adenoma	A	+	+	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	
Adrenal Medulla Pheochromocytoma Benign	A	+	+	A	+	+	+	+	A	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	
Pheochromocytoma Complex													X																			
Pheochromocytoma Malignant																																
Islets, Pancreatic Adenoma	A	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parathyroid Gland Adenoma	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	
Pituitary Gland Pars Distalis, Adenoma	A	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Adenoma, Multiple									X	X	X	X				X				X			X									
Thyroid Gland C Cell, Adenoma	A	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Follicular Cel, Adenoma																															X	

**General Body System**

NONE

**Genital System**

Coagulating Gland	A	A	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
-------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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 I ..Insufficient tissue

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 BLANK ..Not examined microscopically

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:14  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F1 500PPM/CTL	DAY ON TEST	ANIMAL ID																												
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	5	5	5	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
Epididymis	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Preputial Gland	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Squamous Cell Carcinoma																														
Prostate	A																													
Prostate, Dorsal Lobe	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Carcinoma, Metastatic, Urinary Bladder																														
Prostate, Ventral Lobe	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Carcinoma																														
Carcinoma, Metastatic, Urinary Bladder																														
Rete Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Seminal Vesicle	A	A	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Seminoma Benign																														
<b>Hematopoietic System</b>																														
Bone Marrow	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node					+	+				+	+																			
Lymph Node, Mandibular	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mesenteric	A	A	+	+	+	+	+	+	A	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thymus	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Integumentary System</b>																														
Mammary Gland	I	A	I	+	+	+	+	+	A	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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**Experiment Number:** 99930-94  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

**Test Compound:** Endocrine disruptor (Genistein)

**CAS Number:** 446-72-0

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 17:30:15

**First Dose M/F:** NA / NA

**Lab:** NCTR

**CD Rat Male  
F1 500PPM/CTL**

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

Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Fibroma																															
Sarcoma	X																														
<b>Musculoskeletal System</b>																															
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle												+	+																		
<b>Nervous System</b>																															
Brain, Brain Stem	A	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Astrocytoma Malignant																															
Glioma Malignant			X																												
Brain, Cerebellum	A	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Brain, Cerebrum	A	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Astrocytoma Malignant																															
Glioma Malignant			X																												
<b>Respiratory System</b>																															
Lung	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Nose	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Trachea	A	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Special Senses System</b>																															
Ear																															
Neural Crest Tumor																															

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Experiment Number: 99930-94

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:30:15

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

		DAY ON TEST																																	
CD Rat Male F1 500PPM/CTL	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		4	5	5	5	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7			
		4	3	6	8	7	7	9	9	0	1	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3			
		9	4	8	8	4	5	8	9	5	1	1	7	7	7	7	8	8	8	8	8	8	8	8	9	9	9	4	4	4	4	4			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		1	1	1	2	3	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	7			
		0	3	8	0	4	4	8	8	9	0	3	4	7	7	8	1	2	2	2	2	7	8	9	0	0	3	3	3	8	8	3			
		5	8	0	2	3	8	1	4	6	0	4	1	8	9	0	6	1	2	3	4	8	0	9	0	1	3	4	5	0	2	5			
Neural Crest Tumor		X																																	
Eye											A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Harderian Gland											+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lacrimal Gland											+																+							+	+
<b>Urinary System</b>																																			
Kidney		A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Urethra																						+													
Urinary Bladder		A	A	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Transit Epithe, Carcinoma																				X															
<b>SYSTEMIC LESIONS</b>																																			
Multiple Organ		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoma Malignant					X																														

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CD Rat Male  
 F1 500PPM/CTL

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	4	5	5
	4	4	5	9	9	8	8	8	9	9	9	0	0	0	0	9	3	2	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9
	3	3	7	8	8	0	0	0	2	5	5	5	6	6	8	8	0	2	2
	8	9	1	6	7	0	1	2	4	3	8	9	4	5	8	9	4	4	5
	<b>*TOTALS</b>																		

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Adenoma																				1
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	39
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Sarcoma								X												1
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	42
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Hepatocellular Adenoma																				1
Mesentery																				1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Acinar Cell, Adenoma																				1
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

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 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:15  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male  
 F1 500PPM/CTL

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	4	5	5
	4	4	5	9	9	8	8	8	9	9	9	9	0	0	0	0	9	3	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9
	3	3	7	8	8	0	0	0	2	5	5	5	6	6	8	8	0	2	2
	8	9	1	6	7	0	1	2	4	3	8	9	4	5	8	9	4	4	5
	<b>*TOTALS</b>																		

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Adenoma			X																	1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Pheochromocytoma Benign			X	X							X									4
Pheochromocytoma Complex								X												1
Pheochromocytoma Malignant	X									X										2
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Adenoma														X						3
Parathyroid Gland	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Adenoma																				1
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Pars Distalis, Adenoma	X				X			X	X				X	X		X	X			15
Pars Distalis, Adenoma, Multiple																	X			1
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
C Cell, Adenoma																				1
Follicular Cel, Adenoma																	X			1

**General Body System**

NONE

**Genital System**

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
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\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

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CD Rat Male  
 F1 500PPM/CTL

DAY ON TEST	ANIMAL ID																		*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	4	5	5
	4	4	5	9	9	8	8	8	9	9	9	0	0	0	0	9	3	2	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9
	3	3	7	8	8	0	0	0	2	5	5	5	6	6	8	8	0	2	2
	8	9	1	6	7	0	1	2	4	3	8	9	4	5	8	9	4	4	5
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Squamous Cell Carcinoma																			1
Prostate					+														3
Prostate, Dorsal Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Carcinoma, Metastatic, Urinary Bladder																			1
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Carcinoma																			1
Carcinoma, Metastatic, Urinary Bladder																			1
Rete Testes	+	+	+	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Seminoma Benign					X														1
<b>Hematopoietic System</b>																			
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node						+									+	+			9
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thymus	+	+	M	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+
<b>Integumentary System</b>																			
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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 Lab: NCTR

**CD Rat Male**  
**F1 500PPM/CTL**

	DAY ON TEST																		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	4	
	4	4	5	9	9	8	8	8	9	9	9	9	0	0	0	0	9	3	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	
	3	3	7	8	8	0	0	0	2	5	5	5	6	6	8	8	0	2	
	8	9	1	6	7	0	1	2	4	3	8	9	4	5	8	9	4	5	
	<b>*TOTALS</b>																		
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Fibroma														X					2
Sarcoma																			1
<b>Musculoskeletal System</b>																			
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Skeletal Muscle																			2
<b>Nervous System</b>																			
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Astrocytoma Malignant														X					1
Glioma Malignant																			1
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Astrocytoma Malignant														X					1
Glioma Malignant																			1
<b>Respiratory System</b>																			
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
<b>Special Senses System</b>																			
Ear																			1
Neural Crest Tumor																			1

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	4	5	5
	4	4	5	9	9	8	8	8	9	9	9	9	0	0	0	0	9	3	2
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9
	3	3	7	8	8	0	0	0	2	5	5	5	6	6	8	8	0	2	2
	8	9	1	6	7	0	1	2	4	3	8	9	4	5	8	9	4	4	5
	<b>*TOTALS</b>																		
Neural Crest Tumor																			1
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lacrimal Gland				+															
<b>Urinary System</b>																			
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Urethra																			
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Transit Epithe, Carcinoma																			
<b>SYSTEMIC LESIONS</b>																			
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoma Malignant																			

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

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CD Rat Female F1 OPPM	DAY ON TEST	ANIMAL ID																																
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	2	3	3	4	4	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6					
	2	3	6	2	3	1	1	8	0	2	2	2	2	2	2	2	2	4	4	5	5	6	9	9	9	9	1	1	1	2	3	3	3	3
	4	1	7	5	6	4	4	3	7	5	2	8	6	6	6	6	8	6	4	9	8	8	8	0	5	7	3	1	7	7	7	7		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	4	
	4	5	6	9	0	2	2	9	2	4	4	4	4	4	4	4	8	8	9	0	2	7	8	8	1	2	2	2	2	5	8	8	9	
	0	8	6	8	1	7	8	8	4	2	3	5	6	7	8	3	7	8	0	5	8	0	3	7	0	2	9	3	1	8	0	0	0	

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Intestine Large, Rectum																																			
Intestine Small, Duodenum	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cholangioma				X																															
Mesentery																																			
Lipoma																																			
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+		
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
----------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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 Lab: NCTR

CD Rat Female F1 OPPM	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		2	3	3	4	4	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
	ANIMAL ID	4	1	7	5	6	4	4	3	7	5	2	8	6	6	6	6	8	6	4	9	8	8	8	0	5	7	3	1	7	3	1	7	3	7	7			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	
		4	5	6	9	0	2	2	9	2	4	4	4	4	4	8	8	9	0	2	7	8	8	1	2	2	2	5	8	8	9	0	0	0	0	0	0		
		0	8	6	8	1	7	8	8	4	2	3	5	6	7	8	3	7	8	0	5	8	0	3	7	0	2	9	3	1	8	0	0	0	0	0	0		
Adenoma					X																																		
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																																							
Parathyroid Gland		M	+	+	+	+	+	+	+	+	+	+	M	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Adenoma					X				X	X	X		X	X	X		X	X	X	X	X	X		X		X	X											X	
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
C Cell, Adenoma																																							
<b>General Body System</b>																																							
NONE																																							
<b>Genital System</b>																																							
Clitoral Gland		+	+	+	+	+	M	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+
Squamous Cell Papilloma																											X												
Ovary		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Oviduct		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Uterus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Polyp Stromal											X																												X
Sarcoma Stromal																											X												
Vagina		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Granular Cell Tumor Benign																																							X
Sarcoma Stromal																																							

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:16  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F1 OPPM	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
	ANIMAL ID	2	3	3	4	4	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7					
		4	1	7	5	6	4	4	3	7	5	2	8	6	6	6	6	4	4	5	5	6	9	9	9	1	1	1	2	3	3	3		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	4	4	4	4	4	4	4		
		4	5	6	9	0	2	2	9	2	4	4	4	4	4	4	8	8	9	0	2	7	8	8	8	1	2	2	2	2	5	8	8	
		0	8	6	8	1	7	8	8	4	2	3	5	6	7	8	3	7	8	0	5	8	8	0	3	7	0	2	9	3	1	7	7	0

**Hematopoietic System**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node					+																		+			+	+		+	+							
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thymus	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thymoma Malignant																																					X

**Integumentary System**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenocarcinoma				X			X						X							X								X									
Adenocarcinoma, Multiple																												X									
Adenoma														X				X																			
Fibroadenoma			X		X					X				X	X	X				X		X				X		X						X			
Fibroadenoma, Multiple								X					X	X								X													X		X
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibroma													X																								
Lipoma																																					X
Sarcoma	X																																				
Squamous Cell Carcinoma																																					X

**Musculoskeletal System**

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



Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:16  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F1 OPPM	DAY ON TEST	ANIMAL ID																																						
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
		2	3	3	4	4	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6											
		2	3	6	2	3	1	1	8	0	2	2	2	2	2	2	2	4	4	5	5	6	9	9	9	9	1	1	1	2	3	3	3	3	3					
		4	1	7	5	6	4	4	3	7	5	2	2	8	6	6	6	6	4	8	6	4	9	8	8	8	0	5	7	3	1	7	7	7	7					
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
		0	0	0	0	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4				
		4	5	6	9	0	2	2	9	2	4	4	4	4	4	4	4	8	8	9	0	2	7	8	8	8	1	2	2	2	2	5	8	8	9	0				
		4	8	6	8	1	7	8	8	4	2	3	5	6	7	8	3	7	8	0	5	8	0	3	7	0	2	9	3	1	7	7	7	7	7	7				
Bone, Femur		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
<b>Nervous System</b>																																								
Brain, Brain Stem		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Brain, Cerebellum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Brain, Cerebrum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Granular Cell Tumor Benign																																								
<b>Respiratory System</b>																																								
Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Special Senses System</b>																																								
Eye																																								
Harderian Gland																																								
<b>Urinary System</b>																																								
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Transitional Epithelial Carcinoma																																								
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<b>SYSTEMIC LESIONS</b>																																								
Multiple Organ		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Granulocytic																																								

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
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Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:17  
 First Dose M/F: NA / NA  
 Lab: NCTR

		DAY ON TEST																													
CD Rat Female F1 OPPM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2	3	3	4	4	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	
		2	3	6	2	3	1	1	8	0	2	2	2	2	2	2	4	4	5	5	6	9	9	9	1	1	1	2	3	3	3
		4	1	7	5	6	4	4	3	7	5	2	8	6	6	6	6	8	6	4	9	8	8	8	0	5	7	3	1	7	7
		ANIMAL ID																													
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	
		4	5	6	9	0	2	2	9	2	4	4	4	4	4	4	4	8	8	9	0	2	7	8	8	1	2	2	2	5	
		0	8	6	8	1	7	8	8	4	2	3	5	6	6	7	8	3	7	8	0	5	8	0	3	7	0	2	9	3	

Lymphoma Malignant

X

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Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
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Date Report Requested: 10/22/2014  
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 Lab: NCTR

**CD Rat Female  
 F1 0PPM**

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

**\*TOTALS**

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	54
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	54
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	54
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	30
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	54
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	54
Cholangioma																							1
Mesentery																						+	1
Lipoma																						X	1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	54
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	54
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	54
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	54

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	54

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	54
----------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
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Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:17  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F1 0PPM	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS	
	ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
		3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	4		
		8	9	8	8	0	0	0	3	3	3	4	4	6	6	5	8	8	8	8	8	2	2	8	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		5	5	5	5	6	6	6	6	6	7	7	7	7	7	8	8	8	8	8	9	9	9		
		2	5	5	5	1	1	1	4	4	9	1	2	4	5	5	1	2	3	6	7	1	1		
		7	0	2	9	1	2	3	6	7	0	0	3	6	6	9	9	0	6	8	0	0	1	7	
Adenoma																								2	
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	54	
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	54	
Adenoma													X											1	
Parathyroid Gland		M	+	+	M	+	M	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	46	
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	54	
Pars Distalis, Adenoma		X		X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	38	
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	54	
C Cell, Adenoma									X				X											2	
<b>General Body System</b>																									
NONE																									
<b>Genital System</b>																									
Clitoral Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51	
Squamous Cell Papilloma																								1	
Ovary		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	54	
Oviduct		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	54	
Uterus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	54	
Polyp Stromal				X																		X		4	
Sarcoma Stromal																								1	
Vagina		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	54	
Granular Cell Tumor Benign																								1	
Sarcoma Stromal																						X		1	

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CD Rat Female  
 F1 OPPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	4
	8	9	8	8	0	0	0	3	3	3	4	4	6	6	5	8	8	8	8	2	2	8
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	6	6	6	6	6	6	7	7	7	7	7	8	8	8	8	8	9	9
	2	5	5	5	1	1	1	4	4	9	1	2	4	5	5	1	2	3	6	7	1	1
	7	0	2	9	1	2	3	6	7	0	0	3	6	6	9	9	9	9	6	8	0	0
	<b>*TOTALS</b>																					

**Hematopoietic System**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	54
Lymph Node										+	+											+	11
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	54
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	54
Thymus	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	50
Thymoma Malignant																							1

**Integumentary System**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	54
Adenocarcinoma				X																		X	7
Adenocarcinoma, Multiple																							1
Adenoma																							2
Fibroadenoma	X	X	X				X	X			X			X							X		19
Fibroadenoma, Multiple						X			X			X	X				X		X		X		13
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	54
Fibroma																							1
Lipoma																							1
Sarcoma				X																			2
Squamous Cell Carcinoma																							1

**Musculoskeletal System**

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:17  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F1 OPPM	DAY ON TEST	ANIMAL ID																				*TOTALS	
		0738	0733	0733	0733	0744	0744	0744	0744	0744	0744	0744	0744	0744	0744	0744	0744	0744	0744	0744	0744		0744
Bone, Femur		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
<b>Nervous System</b>																							
Brain, Brain Stem		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Brain, Cerebellum		5	5	5	5	6	6	6	6	6	6	7	7	7	7	7	8	8	8	8	8	9	53
Brain, Cerebrum		2	5	5	5	1	1	1	4	4	9	1	2	4	5	5	1	2	3	6	7	1	54
Granular Cell Tumor Benign		7	0	2	9	1	2	3	6	7	0	0	3	6	6	9	9	0	6	8	0	0	1
<b>Respiratory System</b>																							
Lung		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Nose		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Trachea		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
<b>Special Senses System</b>																							
Eye		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Harderian Gland		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
<b>Urinary System</b>																							
Kidney		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Transitional Epithelial Carcinoma						X																	1
Urinary Bladder		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
<b>SYSTEMIC LESIONS</b>																							
Multiple Organ		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Leukemia Granulocytic																							1

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

Experiment Number: 99930-94

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:30:17

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

CD Rat Female  
F1 0PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	4	
	8	9	8	8	0	0	0	3	3	3	4	4	6	6	5	8	8	8	8	8	2	2	8
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	5	5	5	6	6	6	6	6	6	7	7	7	7	7	8	8	8	8	8	9	9	
	2	5	5	5	1	1	1	4	4	9	1	2	4	5	5	1	2	3	6	7	1	1	
	7	0	2	9	1	2	3	6	7	0	0	3	6	6	9	9	0	6	8	0	0	7	
	<b>*TOTALS</b>																						

Lymphoma Malignant

1

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Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:17  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F1 5PPM	DAY ON TEST	ANIMAL ID																											
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7
		1	2	5	6	6	7	9	0	2	2	2	3	4	5	7	8	8	0	1	1	1	3	3	3	3	3	3	3
		1	8	1	0	7	8	7	5	0	8	5	1	0	6	0	1	6	8	0	0	6	0	7	6	7	4	7	9
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	1	1	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	5	5
		1	3	5	6	7	9	1	2	3	4	5	6	8	0	3	5	6	9	9	0	2	4	8	8	8	9	3	3
		8	4	3	3	8	4	1	0	7	4	0	8	0	6	4	4	0	5	7	6	1	4	5	6	7	9	2	3

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum																		+	+		+	+	+	+	+	+	+	+	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+
Adenoma																													
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibrous Histiocytoma, Metastatic, Skin																													
Mesentery																													
Sarcoma																													
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**Cardiovascular System**

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

**Endocrine System**

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

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



Experiment Number: 99930-94

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:30:18

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

CD Rat Female F1 5PPM	DAY ON TEST	ANIMAL ID																														
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		1	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7		
		1	2	5	6	6	7	9	0	2	2	2	3	4	5	7	8	8	0	1	1	1	3	3	3	3	3	3	3	4		
		1	8	1	0	7	8	7	5	0	8	5	1	0	6	0	1	6	8	0	0	6	0	7	6	7	4	7	9	8	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	1	1	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	5	5	5	6	
		1	3	5	6	7	9	1	2	3	4	5	6	8	0	3	5	6	9	9	0	2	4	8	8	8	9	3	3	4	4	0
		8	4	3	3	8	4	1	0	7	4	0	8	0	6	4	4	0	5	7	6	1	4	5	6	7	9	2	3	3	7	6
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma			X																													
Adrenal Medulla		+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pheochromocytoma Benign																									X							
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma																																
Carcinoma																																
Parathyroid Gland		+	+	+	+	+	M	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Adenoma					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>General Body System</b>																																
NONE																																
<b>Genital System</b>																																
Clitoral Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Ovary		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Oviduct		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Uterus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Polyp Stromal																																
Vagina		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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M ..Missing tissue  
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Experiment Number: 99930-94

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:30:18

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

CD Rat Female F1 5PPM	DAY ON TEST	ANIMAL ID																											
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7
		1	2	5	6	6	7	9	0	2	2	2	3	4	5	7	8	8	0	1	1	1	3	3	3	3	3	3	3
		1	8	1	0	7	8	7	5	0	8	5	1	0	6	0	1	6	8	0	0	6	0	7	6	7	4	7	9
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	1	1	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	5	5
		1	3	5	6	7	9	1	2	3	4	5	6	8	0	3	5	6	9	9	0	2	4	8	8	8	9	3	3
		8	4	3	3	8	4	1	0	7	4	0	8	0	6	4	4	0	5	7	6	1	4	5	6	7	9	3	3
Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node					+															+	+			+	+				+
Pancreatic, Fibrous Histiocytoma, Metastatic, Skin																													
Renal, Fibrous Histiocytoma, Metastatic, Skin																													
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thymus		+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	M	M	+	+	+	+	M	M	M
<b>Integumentary System</b>																													
Mammary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenocarcinoma															X														
Adenocarcinoma, Multiple									X								X												
Adenoma																													
Fibroadenoma			X				X		X	X	X	X	X	X			X		X				X	X		X			
Fibroadenoma, Multiple						X												X		X									
Fibroma																												X	
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibrous Histiocytoma																													
Keratoacanthoma									X																				
<b>Musculoskeletal System</b>																													

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
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Experiment Number: 99930-94  
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 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
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CD Rat Female F1 5PPM	DAY ON TEST	ANIMAL ID																																
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
		1	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7					
		1	2	5	6	6	7	9	0	2	2	2	3	4	5	7	8	8	0	1	1	1	3	3	3	3	3	3	3	4				
		1	8	1	0	7	8	7	5	0	8	5	1	0	6	0	1	6	8	0	0	6	0	7	6	3	3	4	7	8	0			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		0	1	1	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	5	5	5	6			
		1	3	5	6	7	9	1	2	3	4	5	6	8	0	3	5	6	9	9	0	2	4	8	8	8	9	3	3	4	4	0		
		8	4	3	3	8	4	1	0	7	4	0	6	4	4	0	4	0	5	7	6	1	4	5	6	7	9	2	3	3	7	6		
Bone, Femur		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Skeletal Muscle				+																														
<b>Nervous System</b>																																		
Brain, Brain Stem		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Brain, Cerebellum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Astrocytoma Malignant																																	X	
Brain, Cerebrum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
<b>Respiratory System</b>																																		
Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Alveolar/Bronchiolar Adenoma																																	X	
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Special Senses System</b>																																		
Eye																		+	+		+	+	+	+	+	+	+	+	+	+	+	+		
Harderian Gland													+			+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+		
Lacrimal Gland																																		
<b>Urinary System</b>																																		
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Urinary Bladder		+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>SYSTEMIC LESIONS</b>																																		

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

**Experiment Number:** 99930-94  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

**Test Compound:** Endocrine disruptor (Genistein)  
**CAS Number:** 446-72-0

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 17:30:18  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**CD Rat Female  
F1 5PPM**

DAY ON TEST	ANIMAL ID																													
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	
	1	2	5	6	6	7	9	0	2	2	2	3	4	5	7	8	8	0	1	1	1	3	3	3	3	3	3	3	4	
	1	8	1	0	7	8	7	5	0	8	5	1	0	6	0	1	6	8	0	0	6	0	7	6	7	4	7	9	8	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	1	1	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	5	5	6
	1	3	5	6	7	9	1	2	3	4	5	6	8	0	3	5	6	9	9	0	2	4	8	8	8	9	3	3	4	0
	8	4	3	3	8	4	1	0	7	4	0	8	0	6	4	4	0	5	7	6	1	4	5	6	7	9	2	3	7	6
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Histiocytic Sarcoma				X																										

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:19  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female  
 F1 5PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5
	9	9	9	9	4	3	2	3	3	4	4	4	5	5	5	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	9	9	9	9
	0	0	0	1	4	4	5	6	6	0	0	2	2	4	5	5	0	0	0
	7	8	9	0	0	2	2	3	4	1	2	1	2	4	7	8	7	8	9
	<b>*TOTALS</b>																		

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	32
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Adenoma																		X		1
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Fibrous Histiocytoma, Metastatic, Skin															X					1
Mesentery																				2
Sarcoma																				1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**Endocrine System**

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:19  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F1 5PPM	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS
	ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
		3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5	5	5	
		9	9	9	9	4	3	2	3	3	4	4	4	5	5	5	2	2	2	
Adrenal Cortex		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
Adenoma		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Adrenal Medulla		6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	9	9	9	48
Pheochromocytoma Benign		0	0	0	1	4	4	5	6	6	0	0	2	4	5	5	0	0	0	1
Islets, Pancreatic		7	8	9	0	0	2	2	3	4	1	2	2	4	7	8	7	8	9	50
Adenoma																				1
Carcinoma																				1
Parathyroid Gland		+	+	+	+	M	+	+	+	+	+	M	+	+	+	+	+	+	+	46
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pars Distalis, Adenoma		X	X	X	X	X	X		X	X	X	X	X		X	X	X	X	X	40
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>General Body System</b>																				
NONE																				
<b>Genital System</b>																				
Clitoral Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Ovary		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Oviduct		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Uterus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Polyp Stromal		X																		1
Vagina		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>Hematopoietic System</b>																				

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:19  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 5PPM**

DAY ON TEST	ANIMAL ID																		*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5	5	5	
	9	9	9	9	4	3	2	3	3	4	4	4	4	5	5	5	2	2	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	9	9	9	
	0	0	0	1	4	4	5	6	6	0	0	2	2	4	5	5	0	0	
	7	8	9	0	0	2	2	3	4	1	2	2	4	7	8	7	8	9	
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node				+						+					+	M		+	
Pancreatic, Fibrous Histiocytoma, Metastatic, Skin															X				
Renal, Fibrous Histiocytoma, Metastatic, Skin															X				
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thymus	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Integumentary System</b>																			
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenocarcinoma																			
Adenocarcinoma, Multiple																			
Adenoma										X									
Fibroadenoma					X	X		X							X				
Fibroadenoma, Multiple	X		X							X	X			X		X		X	
Fibroma																			
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibrous Histiocytoma															X				
Keratoacanthoma																			

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:19  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F1 5PPM	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
		3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5	5	5
		9	9	9	9	4	3	2	3	3	4	4	4	5	5	5	2	2	2
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	9	9	9
		0	0	0	1	4	4	5	6	6	0	0	2	2	4	5	5	0	0
		7	8	9	0	0	2	2	3	4	1	2	1	2	4	7	8	7	8
		<b>*TOTALS</b>																	
Bone, Femur		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skeletal Muscle																			
<b>Nervous System</b>																			
Brain, Brain Stem		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Brain, Cerebellum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Astrocytoma Malignant																			
Brain, Cerebrum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<b>Respiratory System</b>																			
Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Alveolar/Bronchiolar Adenoma																			
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<b>Special Senses System</b>																			
Eye		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lacrimal Gland																			
<b>Urinary System</b>																			
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<b>SYSTEMIC LESIONS</b>																			

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



Experiment Number: 99930-94

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:30:19

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

CD Rat Female  
F1 5PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5	5	5	
	9	9	9	9	4	3	2	3	3	4	4	4	4	5	5	5	2	2	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	9	9	9	
	0	0	0	1	4	4	5	6	6	0	0	2	2	4	5	5	0	0	
	7	8	9	0	0	2	2	3	4	1	2	2	2	4	7	8	7	8	
	<b>*TOTALS</b>																		
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Histiocytic Sarcoma																			1

\* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:19  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F1 100PPM	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	ANIMAL ID	2	4	4	4	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7		
		6	0	6	8	2	3	4	6	0	0	2	3	3	3	5	5	5	5	5	6	9	1	2	3	3	3	3	3			
		8	1	5	6	0	4	5	5	3	4	6	5	8	8	3	8	7	4	8	1	1	1	1	7	8	8	6	9	9		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	1	1	1	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	4	4	4	4	4	5	5	5	5		
		5	9	1	2	3	3	4	7	1	2	4	7	7	8	9	0	0	0	1	3	7	1	2	4	5	8	2	3	3	4	4
		1	1	8	4	0	6	9	5	8	1	1	3	8	1	4	3	4	5	1	2	0	8	4	5	1	9	8	1	9	4	5

**Alimentary System**

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

**Cardiovascular System**

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

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma													X																												
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:20  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F1 100PPM	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	ANIMAL ID	2	4	4	4	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7		
		6	0	6	8	2	3	4	6	0	0	2	3	3	3	5	5	5	5	5	5	6	9	1	2	3	3	3	3	3	3	3	3			
		8	1	5	6	0	4	5	5	3	4	6	5	8	8	3	8	7	7	4	8	1	1	1	1	1	1	7	8	8	6	9	9			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		0	0	1	1	1	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3			
		5	9	1	2	3	3	4	7	1	2	4	7	8	9	0	0	0	1	3	7	1	2	4	5	8	2	3	3	4	4	5				
		1	1	8	4	0	6	9	5	8	1	1	3	8	1	4	3	4	5	1	2	0	8	4	5	1	9	8	1	9	4	5				
Pheochromocytoma Complex													X																							
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Adenoma										X								X																		
Parathyroid Gland		+	+	+	+	+	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+			
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Pars Distalis, Adenoma					X	X	X		X		X		X		X		X	X	X	X	X		X	X	X		X	X	X	X	X	X	X			
Pars Distalis, Carcinoma																							X													
Thyroid Gland		+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
C Cell, Adenoma																											X									
<b>General Body System</b>																																				
NONE																																				
<b>Genital System</b>																																				
Clitoral Gland		+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Carcinoma																												X								
Squamous Cell Papilloma																								X												
Ovary		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Granulosa Cell Tumor Malignant																													X							
Sarcoma Stromal																																				
Oviduct		+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Uterus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenocarcinoma																																				
Polyp Stromal																X																	X	X		

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

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

Experiment Number: 99930-94

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:30:20

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

CD Rat Female F1 100PPM	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
		2	4	4	4	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7					
	ANIMAL ID	8	1	5	6	0	4	5	5	3	4	6	5	8	3	8	7	7	4	8	1	1	1	1	3	3	3	3	3	3	3	9	9			
Sarcoma Stromal																																		X		
Vagina		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Sarcoma Stromal																																			X	
<b>Hematopoietic System</b>																																				
Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Lymph Node															+							+	+												+	
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thymus		+	+	+	+	M	+	M	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<b>Integumentary System</b>																																				
Mammary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenocarcinoma						X			X	X																										X
Adenocarcinoma, Multiple																																				
Fibroadenoma				X				X	X						X	X	X	X	X			X			X	X	X	X								
Fibroadenoma, Multiple															X	X							X									X	X	X		
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lipoma					X																															
<b>Musculoskeletal System</b>																																				
Bone, Femur		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skeletal Muscle																																				

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I ..Insufficient tissue

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**Experiment Number:** 99930-94  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
**Test Compound:** Endocrine disruptor (Genistein)  
**CAS Number:** 446-72-0

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 17:30:20  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<b>CD Rat Female</b>	2	4	4	4	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7			
<b>F1 100PPM</b>	6	0	6	8	2	3	4	6	0	0	2	3	3	3	5	5	5	5	5	6	9	1	2	3	3	3	3	3			
	8	1	5	6	0	4	5	5	3	4	6	5	8	8	3	8	7	4	8	1	1	1	1	1	7	8	8	6	9	9	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	1	1	1	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	4	4	4	4	4	5	5	5	5		
	5	9	1	2	3	3	4	7	1	2	4	7	7	8	9	0	0	0	1	3	7	1	2	4	5	8	2	3	3	4	4
	1	1	8	4	0	6	9	5	8	1	1	3	8	1	4	3	4	5	1	2	0	8	4	5	1	9	8	1	9	4	5

Hemangiosarcoma  
 Sarcoma

**Nervous System**

Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Granular Cell Tumor Malignant											X																			
Meningioma Malignant																														

**Respiratory System**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Alveolar/Bronchiolar Adenoma																														
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Squamous Cell Carcinoma																	X													
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**Special Senses System**

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

**Urinary System**

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

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Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
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Date Report Requested: 10/22/2014  
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 First Dose M/F: NA / NA  
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CD Rat Female F1 100PPM	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ANIMAL ID	2	4	4	4	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7
	ANIMAL ID	6	0	6	8	2	3	4	6	0	0	2	3	3	3	5	5	5	5	5	6	9	1	2	3	3	3	3
Urinary Bladder	8	1	5	6	0	4	5	5	3	4	6	5	8	8	3	8	7	7	4	8	1	1	1	1	1	7	8	
SYSTEMIC LESIONS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Multiple Organ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	
	5	9	1	2	3	3	4	7	1	2	4	7	7	8	9	0	0	0	1	3	7	1	2	4	5	8		
	1	1	8	4	0	6	9	5	8	1	1	3	8	1	4	3	4	5	1	2	0	8	4	5	1	9		
							M																					
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		

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 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female  
 F1 100PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	4	4	4	4	4	4	4	4	4	4	4	4	5	4	5	4	4
	8	7	3	5	4	3	4	4	9	9	9	8	7	9	9	0	9	0	7
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	6	6	6	6	7	7	7	8	8	8	8	8	8	8	8	9	9
	8	8	4	6	6	6	0	2	8	0	0	1	2	3	3	6	6	1	1
	1	2	3	2	5	6	3	0	2	6	9	2	1	0	1	2	7	3	4
	<b>*TOTALS</b>																		

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	30
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Mesentery																				1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenoma																				2
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:20  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 100PPM**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	4	4	4	4	4	4	4	4	4	4	4	4	5	4	5	4	4
	8	7	3	5	4	3	4	4	9	9	9	8	7	9	9	0	9	0	7
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	6	6	6	6	7	7	7	8	8	8	8	8	8	8	8	9	9
	8	8	4	6	6	6	0	2	8	0	0	1	2	3	3	6	6	1	1
	1	2	3	2	5	6	3	0	2	6	9	2	1	0	1	2	7	3	4
	<b>*TOTALS</b>																		

Pheochromocytoma Complex																				1
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenoma																				2
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	46
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pars Distalis, Adenoma	X	X	X	X	X		X	X	X				X		X	X	X	X		33
Pars Distalis, Carcinoma																				1
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
C Cell, Adenoma				X																2
<b>General Body System</b>																				
NONE																				
<b>Genital System</b>																				
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Carcinoma																				1
Squamous Cell Papilloma																				1
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Granulosa Cell Tumor Malignant							X													2
Sarcoma Stromal							X													1
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenocarcinoma																				1
Polyp Stromal																				3

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



Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:21  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female  
 F1 100PPM

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

\*TOTALS

Sarcoma Stromal																				1
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Sarcoma Stromal																				1
<b>Hematopoietic System</b>																				
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node							+			+	+	+			+				+	12
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	M	M	M	+	43
<b>Integumentary System</b>																				
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenocarcinoma		X	X																	6
Adenocarcinoma, Multiple									X						X					2
Fibroadenoma	X	X		X		X				X					X	X				20
Fibroadenoma, Multiple							X											X		8
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lipoma																				1
<b>Musculoskeletal System</b>																				
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Skeletal Muscle												+								1

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:21  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 100PPM**

	DAY ON TEST																		*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
	3	3	4	4	4	4	4	4	4	4	4	4	4	4	5	4	5		
	8	7	3	5	4	3	4	4	9	9	9	8	7	9	9	0	9		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	5	5	6	6	6	6	7	7	7	8	8	8	8	8	8	8	9		
	8	8	4	6	6	6	0	2	8	0	0	1	2	3	3	6	6		
	1	2	3	2	5	6	3	0	2	6	9	2	1	0	1	2	7		
Hemangiosarcoma												X						1	
Sarcoma												X						1	
<b>Nervous System</b>																			
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Granular Cell Tumor Malignant																		1	
Meningioma Malignant	X																	1	
<b>Respiratory System</b>																			
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Alveolar/Bronchiolar Adenoma														X				1	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Squamous Cell Carcinoma																		1	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
<b>Special Senses System</b>																			
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	31	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	30	
Lacrimal Gland																		1	
<b>Urinary System</b>																			
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	

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

Experiment Number: 99930-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:30:21

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female  
F1 100PPM

DAY ON TEST	078	078	073	074	074	074	074	074	079	079	079	078	077	079	079	070	079	077			
ANIMAL ID	00581	00582	00663	00662	00665	00667	00667	00667	00668	00668	00668	00668	00668	00668	00668	00668	00668	00669	00669		
																				<b>*TOTALS</b>	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
<b>SYSTEMIC LESIONS</b>																					
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

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

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



Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:21  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F1 500PPM	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ANIMAL ID	3	3	3	4	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4
		5	6	6	9	2	5	7	8	1	1	3	3	3	6	7	8	1	1	2	3	5	5	6	6	7	3	8	8
		7	0	2	3	5	2	4	7	0	9	3	6	8	1	0	4	5	6	4	7	0	2	4	5	6	9	2	3
Islets, Pancreatic Carcinoma		+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parathyroid Gland		+	+	+	M	+	+	M	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Adenoma			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C Cell, Adenoma																											X		
<b>General Body System</b>																													
NONE																													
<b>Genital System</b>																													
Clitoral Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ovary		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Granulosa Cell Tumor Benign																												X	
Oviduct		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Uterus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																													
Polyp Stromal																												X	
Vagina		+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Hematopoietic System</b>																													
Bone Marrow		+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node																												+	

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 + ..Tissue examined microscopically  
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 M ..Missing tissue  
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Experiment Number: 99930-94

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:30:22

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

CD Rat Female F1 500PPM	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		3	3	3	4	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7		
		3	4	5	0	1	5	6	6	9	0	1	1	2	3	3	4	6	6	7	7	7	8	8	8	8	9	2	3	3	3	
		0	5	9	8	2	0	5	8	8	5	8	6	0	2	4	0	0	8	5	9	8	8	8	4	6	7	7	7	6	8	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	M	
<b>Integumentary System</b>																																
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenocarcinoma						X					X	X	X		X					X			X									
Adenocarcinoma, Multiple																							X									
Adenoma												X	X									X										
Fibroadenoma						X	X	X								X																
Fibroadenoma, Multiple																														X	X	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Musculoskeletal System</b>																																
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Nervous System</b>																																
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Granular Cell Tumor Benign																														X		
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Granular Cell Tumor Benign													X																			
Granular Cell Tumor Nos																										X						

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+ ..Tissue examined microscopically  
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Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
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 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F1 500PPM	DAY ON TEST	ANIMAL ID																														
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	3	3	3	4	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6			
	3	4	5	0	1	5	6	6	9	0	1	1	2	3	3	4	6	6	6	7	7	8	8	9	2	3	3	3	3			
	0	5	9	8	2	0	5	8	8	5	8	8	6	0	2	4	0	8	5	9	8	8	8	4	6	7	7	7	8			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	5			
	5	6	6	9	2	5	7	8	1	1	3	3	3	6	7	8	1	1	2	3	5	5	6	6	7	3	8	8	8			
	7	0	2	3	5	2	4	7	0	9	3	6	8	1	0	4	5	6	4	7	0	2	4	5	6	9	2	3	4	1	2	9

**Respiratory System**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Squamous Cell Carcinoma, Metastatic, Nose																																			X
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Squamous Cell Carcinoma																																			X
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

**Special Senses System**

Eye			+																															+	+	+	+	+	+						
Harderian Gland					+																																		+	+	+	+	+	+	
Squamous Cell Carcinoma, Metastatic, Nose																																													X
Lacrimal Gland																																													+

**Urinary System**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Nephroblastoma	X																																													
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**SYSTEMIC LESIONS**

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Leukemia Mononuclear																																																X

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:22  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female  
 F1 500PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5	5
	8	7	8	8	8	3	3	4	5	9	8	8	9	9	0	0	1	1
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	6	6	6	7	8	8	8	8	8	8	8	8	9
	3	4	4	4	4	4	6	8	4	0	1	1	2	3	3	4	6	1
	0	2	6	8	9	1	7	9	5	5	0	1	9	2	3	1	6	2
	*TOTALS																	

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	24
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine Small, Ileum	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Intestine Small, Jejunum	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Mesentery																			2
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Adenoma																			1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48

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M ..Missing tissue  
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Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:22  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female  
 F1 500PPM

DAY ON TEST	ANIMAL ID																		*TOTALS
	078	073	073	073	073	074	074	074	075	079	078	078	079	079	079	070	070	070	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	1
3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5	5	5	44
8	7	8	8	8	3	3	4	5	9	8	8	9	9	9	0	0	1	49	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
5	5	5	5	5	6	6	6	7	8	8	8	8	8	8	8	8	8	9	49
3	4	4	4	4	4	6	8	4	0	1	1	2	3	3	4	6	1	3	
0	2	6	8	9	1	7	9	5	5	0	1	9	2	3	1	6	2		
Islets, Pancreatic Carcinoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Parathyroid Gland	+	M	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	44
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Pars Distalis, Adenoma	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	46
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
C Cell, Adenoma			X			X													3
<b>General Body System</b>																			
NONE																			
<b>Genital System</b>																			
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Granulosa Cell Tumor Benign																			1
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Adenoma							X												1
Polyp Stromal																			1
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
<b>Hematopoietic System</b>																			
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Lymph Node						+		+								+			5

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Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:22  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 500PPM**

	DAY ON TEST																		*TOTALS	
	0 7 3 8	0 7 3 7	0 7 3 8	0 7 3 8	0 7 3 8	0 7 4 3	0 7 4 3	0 7 4 4	0 7 4 5	0 7 4 9	0 7 4 8	0 7 4 9	0 7 4 9	0 7 4 9	0 7 5 0	0 7 5 0	0 7 6 1	0 7 6 2		
ANIMAL ID	0 0 5 3 0	0 0 5 4 2	0 0 5 4 6	0 0 5 4 8	0 0 5 4 9	0 0 6 4 1	0 0 6 6 7	0 0 6 8 8	0 0 7 8 9	0 0 8 4 5	0 0 8 0 1	0 0 8 1 1	0 0 8 2 9	0 0 8 3 2	0 0 8 3 3	0 0 8 4 1	0 0 8 6 6	0 0 9 1 6	0 0 9 2 2	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Thymus	+	+	+	M	+	+	+	+	+	+	+	+	+	M	+	+	M	+	+	44
<b>Integumentary System</b>																				
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Adenocarcinoma				X			X		X											10
Adenocarcinoma, Multiple					X					X										3
Adenoma												X		X						5
Fibroadenoma			X					X	X	X										8
Fibroadenoma, Multiple								X				X								4
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
<b>Musculoskeletal System</b>																				
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
<b>Nervous System</b>																				
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Granular Cell Tumor Benign																				1
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Granular Cell Tumor Benign																				1
Granular Cell Tumor Nos																				1

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Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:22  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 500PPM**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5	5
	8	7	8	8	8	3	3	4	5	9	8	9	9	9	0	0	1	1
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	6	6	6	7	8	8	8	8	8	8	8	8	9
	3	4	4	4	4	4	6	8	4	0	1	1	2	3	3	4	6	1
	0	2	6	8	9	1	7	9	5	5	0	1	9	2	3	1	6	2
	<b>*TOTALS</b>																	

**Respiratory System**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Squamous Cell Carcinoma, Metastatic, Nose																			1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Squamous Cell Carcinoma																			2
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49

**Special Senses System**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Squamous Cell Carcinoma, Metastatic, Nose																			1
Lacrimal Gland																			1

**Urinary System**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Nephroblastoma																			1
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49

**SYSTEMIC LESIONS**

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Leukemia Mononuclear																			1

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Experiment Number: 99930-94

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:30:22

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

CD Rat Female F1 5PPM/CTL	DAY ON TEST	ANIMAL ID																													
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	4	4	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
	2	3	5	4	8	2	2	2	3	5	6	6	7	7	8	9	0	2	3	3	3	3	3	3	4	4	3	3	4		
	5	9	1	3	1	0	5	7	4	8	7	9	3	3	8	2	9	4	7	7	7	8	7	8	8	0	0	9	9	3	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	1	1	1	1	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	5	5	5	5	6	6	6	6	6	
	5	0	1	4	9	3	5	5	6	0	2	3	3	4	6	7	0	3	9	9	9	3	4	5	5	1	1	1	1	2	5
	6	2	4	8	5	5	3	5	7	9	1	1	9	4	2	2	4	3	6	7	8	6	0	5	6	4	5	7	8	3	0

Alimentary System

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

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Schwannoma Nos																															

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
----------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

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Lab: NCTR

CD Rat Female F1 5PPM/CTL	DAY ON TEST	ANIMAL ID																												
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	4	4	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	
		2	3	5	4	8	2	2	2	3	5	6	6	7	7	8	9	0	2	3	3	3	3	3	3	3	4	4	3	3
		5	9	1	3	1	0	5	7	4	8	7	9	3	3	8	2	9	4	7	7	8	7	8	8	0	0	9	9	3
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	1	1	1	1	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	5	5	5	5	6	6	6	6
		5	0	1	4	9	3	5	5	6	0	2	3	3	4	6	7	0	3	9	9	3	4	5	5	1	1	1	1	2
		6	2	4	8	5	5	3	5	7	9	1	1	9	4	2	2	4	3	6	7	8	6	0	5	6	4	5	7	8
Carcinoma																														X
Adrenal Medulla		+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pheochromocytoma Benign																														X
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma																														X
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Adenoma					X	X	X	X		X	X	X	X	X	X	X	X		X	X		X		X		X			X	
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
C Cell, Adenoma																														
<b>General Body System</b>																														
NONE																														
<b>Genital System</b>																														
Clitoral Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Squamous Cell Papilloma																														
Ovary		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Granulosa Cell Tumor Benign																														
Granulosa Cell Tumor Malignant																														X
Oviduct		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Uterus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Polyp Stromal																														X
Sarcoma Stromal																														X

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:23  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female	DAY ON TEST																												
F1 5PPM/CTL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	3	4	4	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	2	3	5	4	8	2	2	2	3	5	6	6	7	7	8	9	0	2	3	3	3	3	3	3	4	4	3	3	
	5	9	1	3	1	0	5	7	4	8	7	9	3	3	8	2	9	4	7	7	7	8	7	8	8	0	0	9	9
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	1	1	1	1	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	5	5	5	5	
	5	0	1	4	9	3	5	5	6	0	2	3	3	4	6	7	0	3	9	9	9	9	3	4	5	5	1	1	
	6	2	4	8	5	5	3	5	7	9	1	1	9	4	2	2	4	3	6	7	8	6	0	5	6	4	5	7	
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Hematopoietic System</b>																													
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node				+								+															+	M	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thymus	+	+	+	+	+	+	+	+	M	+	+	+	M	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Integumentary System</b>																													
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenocarcinoma					X				X				X																
Fibroadenoma				X		X	X	X	X	X						X							X	X	X	X	X	X	
Fibroadenoma, Multiple						X			X							X		X										X	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibroma																												X	
Keratoacanthoma																													
<b>Musculoskeletal System</b>																													
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bone, Mandible																													
Squamous Cell Carcinoma																													
Skeletal Muscle																												+	

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:23  
 First Dose M/F: NA / NA  
 Lab: NCTR

DAY ON TEST	ANIMAL ID																											
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CD Rat Female	3	4	4	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7
F1 5PPM/CTL	2	3	5	4	8	2	2	2	3	5	6	6	7	7	8	9	0	2	3	3	3	3	3	3	4	4	3	3
	5	9	1	3	1	0	5	7	4	8	7	9	3	3	8	2	9	4	7	7	8	7	8	8	0	0	9	9
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	1	1	1	1	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	5	5	5	5	6	6	6
	5	0	1	4	9	3	5	5	6	0	2	3	3	4	6	7	0	3	9	9	3	4	5	5	1	1	1	1
	6	2	4	8	5	5	3	5	7	9	1	1	9	4	2	2	4	3	6	7	8	6	0	5	6	4	5	7

Granulosa Cell Tumor Malignant, Metastatic, Ovary X

System	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
<b>Nervous System</b>																												
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Brain, Cerebellum	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<b>Respiratory System</b>																												
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Alveolar/Bronchiolar Adenoma																												
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<b>Special Senses System</b>																												
Ear																												+
Squamous Cell Papilloma																												X
Eye																				+	+	+	+	+	+	+	+	+
Harderian Gland																				+	+	+	+	+	+	+	+	+
Lacrimal Gland														+														
<b>Urinary System</b>																												
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:23  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 5PPM/CTL**

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

**SYSTEMIC LESIONS**

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Histiocytic Sarcoma		X																																

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

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



Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:23  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 5PPM/CTL**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	
	2	2	2	3	3	3	4	4	5	5	5	9	9	9	0	2	2	2	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6	6	6	6	6	6	7	7	7	7	7	7	8	8	8	8	8	9	
	5	5	5	7	7	9	0	0	5	5	5	6	1	1	3	7	7	1	
	1	3	4	1	2	1	8	9	3	4	5	1	5	6	7	2	3	4	5
	<b>*TOTALS</b>																		

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	33
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Mesentery						+													2
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	49
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Tongue																			1

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Schwannoma Nos												X							1

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
----------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

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

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
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Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:24  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F1 5PPM/CTL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS
	ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
		4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	
		2	2	2	3	3	3	4	4	5	5	5	9	9	9	0	2	2	2	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		6	6	6	6	6	6	7	7	7	7	7	7	8	8	8	8	8	8	
		5	5	5	7	7	9	0	0	5	5	5	6	1	1	3	7	7	7	
		1	3	4	1	2	1	8	9	3	4	5	1	5	6	7	2	3	4	1
Carcinoma																				1
Adrenal Medulla		+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	48
Pheochromocytoma Benign																		X		2
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenoma																		X		2
Parathyroid Gland		M	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Pars Distalis, Adenoma		X	X		X				X	X	X	X	X	X			X	X	X	32
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
C Cell, Adenoma																	X			1
<b>General Body System</b>																				
NONE																				
<b>Genital System</b>																				
Clitoral Gland		M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Squamous Cell Papilloma																		X		1
Ovary		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Granulosa Cell Tumor Benign																				1
Granulosa Cell Tumor Malignant																				1
Oviduct		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Uterus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Polyp Stromal																				1
Sarcoma Stromal																				1

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
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Experiment Number: 99930-94  
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 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 5PPM/CTL**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	
	2	2	2	3	3	3	4	4	5	5	5	9	9	9	0	2	2	2	2	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6	6	6	6	6	6	7	7	7	7	7	7	8	8	8	8	8	8	9	
	5	5	5	7	7	9	0	0	5	5	5	6	1	1	3	7	7	7	1	
	1	3	4	1	2	1	8	9	3	4	5	1	5	6	7	2	3	4	5	
	<b>*TOTALS</b>																			
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	49
<b>Hematopoietic System</b>																				
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node				+		+	+							+	+		+			9
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
<b>Integumentary System</b>																				
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenocarcinoma																				3
Fibroadenoma	X	X	X	X		X			X	X		X								21
Fibroadenoma, Multiple					X											X	X	X		9
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Fibroma																				1
Keratoacanthoma					X															1
<b>Musculoskeletal System</b>																				
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Bone, Mandible	+																			1
Squamous Cell Carcinoma	X																			1
Skeletal Muscle																				1

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:24  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F1 5PPM/CTL	DAY ON TEST	ANIMAL ID																		*TOTALS
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5		
	2	2	2	3	3	3	4	4	5	5	5	5	9	9	9	0	2	2		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	6	6	6	6	6	6	7	7	7	7	7	7	8	8	8	8	8	9		
	5	5	5	7	7	9	0	0	5	5	5	6	1	1	3	7	7	1		
	1	3	4	1	2	1	8	9	3	4	5	1	5	6	7	2	3	4	5	

Granulosa Cell Tumor Malignant, Metastatic, Ovary																				1
<b>Nervous System</b>																				
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>Respiratory System</b>																				
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Alveolar/Bronchiolar Adenoma									X											1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>Special Senses System</b>																				
Ear													+							2
Squamous Cell Papilloma																				1
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	33
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	33
Lacrimal Gland																				1
<b>Urinary System</b>																				
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	49

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:24  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female  
 F1 5PPM/CTL

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5
	2	2	2	3	3	3	4	4	5	5	5	5	9	9	9	0	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	6	6	6	6	6	7	7	7	7	7	7	8	8	8	8	8	8	9
	5	5	5	7	7	9	0	0	5	5	5	6	1	1	3	7	7	7	1
	1	3	4	1	2	1	8	9	3	4	5	1	5	6	7	2	3	4	5
	*TOTALS																		

SYSTEMIC LESIONS

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Histiocytic Sarcoma																				1

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 Route: DOSED FEED  
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**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:24  
 First Dose M/F: NA / NA  
 Lab: NCTR

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

CD Rat Female  
 F1 100PPM/CTL

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

**Alimentary System**

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

**Cardiovascular System**

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

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma								X																									

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

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Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:25  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F1 100PPM/CTL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
		4	4	5	5	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7					
	ANIMAL ID	1	2	3	7	1	3	5	5	7	7	8	8	9	0	0	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	1	1	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5	5	6	6	6	6	6	6	7	7	7				
	9	9	3	9	3	7	9	0	2	3	5	5	8	8	0	2	5	9	9	0	3	3	5	5	5	5	5	1	4	4	7	0	0	0	0	0	0				
	4	7	7	2	4	4	9	7	7	0	3	7	2	9	5	5	0	1	2	4	5	1	7	8	6	4	4	5	0	4	5	7	4	5	5	5	5				
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																																									
Carcinoma																																									
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	M	M	M	+	+	+	M	M	+	+	+	+	+	+	+	+	+		
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Adenoma	X		X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C Cell, Adenoma																																									
<b>General Body System</b>																																									
NONE																																									
<b>Genital System</b>																																									
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Squamous Cell Papilloma																																								X	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Sarcoma Stromal																																									
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Polyp Stromal																																									
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Granular Cell Tumor Benign																																									

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Experiment Number: 99930-94  
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**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
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 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
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 First Dose M/F: NA / NA  
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CD Rat Female F1 100PPM/CTL	DAY ON TEST	ANIMAL ID																												
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	4	5	5	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
		1	2	3	7	1	3	5	5	7	7	8	8	9	0	0	2	3	3	3	3	3	3	3	3	4	4	4	4	4
		0	3	8	7	9	2	4	8	0	0	3	3	8	3	9	0	2	7	7	3	3	8	9	7	0	3	3	4	5
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	1	1	2	2	2	3	3	3	3	3	3	4	4	4	4	4	5	5	5	5	5	5	6	6	6	6	7
		9	9	3	9	3	7	9	0	2	3	5	5	8	8	0	2	5	9	9	0	3	3	5	5	5	1	4	4	7
		4	7	7	2	4	4	9	7	7	0	3	7	2	9	5	5	0	1	2	0	4	5	1	7	8	6	4	5	0

**Hematopoietic System**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node																															
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	M	+	+	+	M	+	+	+	+	+	+	+	

**Integumentary System**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenocarcinoma													X	X																	
Adenoma																											X				
Fibroadenoma			X		X	X						X					X	X	X										X	X	
Fibroadenoma, Multiple				X		X	X	X				X		X	X					X	X				X						
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibroma	X																														
Lipoma									X																						

**Musculoskeletal System**

Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skeletal Muscle																														
Lipoma																														

**Nervous System**

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
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CD Rat Female F1 100PPM/CTL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		4	4	5	5	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	ANIMAL ID	1	2	3	7	1	3	5	5	7	7	8	8	9	0	0	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	1	1	2	2	2	3	3	3	3	3	3	4	4	4	4	4	5	5	5	5	5	5	6	6	6	6	7	7	7	
	4	7	7	2	4	4	9	7	7	0	3	5	5	8	8	9	5	5	1	5	5	5	5	1	4	4	4	5	0	4	5	
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Astrocytoma Malignant																																
<b>Respiratory System</b>																																
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Special Senses System</b>																																
Eye				+										+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Harderian Gland															+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Urinary System</b>																																
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Renal Tubule, Adenoma																																
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>SYSTEMIC LESIONS</b>																																
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:25  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female  
 F1 100PPM/CTL

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

\*TOTALS

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large																				1
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	36
Intestine Small																				1
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	49
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenoma																				2

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:25  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 100PPM/CTL**

	DAY ON TEST																				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	4	5	5	4	4	
	5	5	5	5	5	5	9	8	8	9	9	9	9	9	0	9	3	0	7	7	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	
	4	4	4	5	5	6	0	1	1	2	3	3	3	3	6	7	7	1	1	1	
	7	8	9	1	2	0	7	3	4	6	4	5	8	9	3	1	5	8	9	9	
	*TOTALS																				
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenoma		X																			1
Carcinoma				X																	1
Parathyroid Gland	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	M	+		42
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pars Distalis, Adenoma	X			X	X	X			X	X	X	X	X	X	X			X			40
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
C Cell, Adenoma																		X			1
<b>General Body System</b>																					
NONE																					
<b>Genital System</b>																					
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Squamous Cell Papilloma																					1
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Sarcoma Stromal					X																1
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Polyp Stromal									X					X							2
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	48
Granular Cell Tumor Benign			X																		1

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:25  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 100PPM/CTL**

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

**\*TOTALS**

**Hematopoietic System**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node	+	+	+	+			+	+			+					+			10
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47

**Integumentary System**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenocarcinoma													X						3
Adenoma					X														2
Fibroadenoma				X			X							X			X	X	14
Fibroadenoma, Multiple	X	X						X	X			X			X			X	17
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Fibroma																			1
Lipoma																			1

**Musculoskeletal System**

Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Skeletal Muscle																			1
Lipoma																			1

**Nervous System**

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:25  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F1 100PPM/CTL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS	
	ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
		4	4	4	4	4	4	4	4	4	4	4	4	4	5	4	5	5	4		
		5	5	5	5	5	9	8	8	9	9	9	9	9	0	9	3	0	7		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9		
		4	4	4	5	5	6	0	1	1	2	3	3	3	6	7	7	1	1		
		7	8	9	1	2	0	7	3	4	6	4	5	8	9	3	1	5	8	9	
Brain, Brain Stem		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Brain, Cerebellum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Brain, Cerebrum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Astrocytoma Malignant		X																		1	
<b>Respiratory System</b>																					
Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
<b>Special Senses System</b>																					
Eye		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	37	
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	36	
<b>Urinary System</b>																					
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Renal Tubule, Adenoma																				1	
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	48	
<b>SYSTEMIC LESIONS</b>																					
Multiple Organ		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
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Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:25  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 500PPM/CTL**

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

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leiomyosarcoma																																	
Intestine Large, Rectum									+	+																+	+	+	+	+			
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hepatocellular Adenoma																																	
Mesentery																																	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**Cardiovascular System**

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

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
----------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:26  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F1 500PPM/CTL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ANIMAL ID	3	4	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7
		7	1	0	1	2	4	8	9	0	0	1	4	4	4	5	5	6	7	6	7	8	9	9	0	0	2	3	3	3
		6	8	7	7	0	7	5	0	2	4	8	8	3	0	7	1	1	9	3	6	8	6	5	4	5	3	7	7	8
Adenoma		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Adrenal Medulla		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Islets, Pancreatic		0	0	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	5
Adenoma		6	9	2	2	3	4	0	0	1	1	2	8	8	9	0	1	3	3	3	4	6	7	7	9	9	2	9	9	3
Parathyroid Gland		8	6	2	9	1	5	0	8	3	5	9	8	9	1	7	8	7	3	5	8	9	7	9	2	4	7	3	4	7
Pituitary Gland																														
Pars Distalis, Adenoma																														
Pars Distalis, Carcinoma																														
Thyroid Gland																														
C Cell, Adenoma																														
C Cell, Carcinoma																														
Follicular Cel, Adenoma																														
<b>General Body System</b>																														
Tissue NOS																														
Liposarcoma																														
<b>Genital System</b>																														
Clitoral Gland																														
Ovary																														
Oviduct																														
Uterus																														
Leiomyosarcoma																														
Polyp Stromal																														

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

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

Experiment Number: 99930-94

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:30:26

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

CD Rat Female F1 500PPM/CTL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
		3	4	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7				
	ANIMAL ID	6	8	7	7	0	0	7	5	0	2	4	8	8	3	0	7	1	1	9	3	6	8	6	5	4	5	3	7	7	7	8				
Vagina		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Sarcoma Stromal				X																																
<b>Hematopoietic System</b>																																				
Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Lymph Node																		+																		
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Thymus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
<b>Integumentary System</b>																																				
Mammary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenocarcinoma									X				X						X		X					X										
Adenocarcinoma, Multiple													X										X													
Adenoma																																				
Fibroadenoma		X		X				X	X		X	X		X						X			X				X				X	X				
Fibroadenoma, Multiple																				X			X							X						
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibroma											X																									
Osteosarcoma																																				
Sarcoma																																				

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

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



**Experiment Number:** 99930-94  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
**Test Compound:** Endocrine disruptor (Genistein)  
**CAS Number:** 446-72-0

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 17:30:26  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

CD Rat Female F1 500PPM/CTL	DAY ON TEST																													
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	3	4	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	
	7	1	0	1	2	4	8	9	0	0	1	4	4	4	5	5	6	7	6	7	7	8	9	9	0	0	2	3	3	
	6	8	7	7	0	0	7	5	0	2	4	8	8	3	0	7	1	1	9	3	6	8	6	5	4	5	3	7	7	
Bone, Femur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bone, Tibia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Nervous System</b>	0	0	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	5	
Brain, Brain Stem	6	9	2	2	3	4	0	0	1	1	2	8	8	9	9	0	1	3	3	3	4	6	7	7	9	9	2	9	9	
Brain, Cerebellum	8	6	2	9	1	5	0	8	3	5	9	8	9	1	7	8	7	3	3	5	8	5	9	2	4	7	3	4	5	
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Respiratory System</b>	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Squamous Cell Carcinoma																														
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Special Senses System</b>																														
Eye		+								+	+								+											
Harderian Gland											+	+															+	+	+	+
Lacrimal Gland										+																				
<b>Urinary System</b>																														
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+
<b>SYSTEMIC LESIONS</b>																														
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:26  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female  
 F1 500PPM/CTL

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5	5	5
	8	8	8	9	4	3	3	4	4	4	5	8	8	8	9	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	5	6	6	6	6	6	6	7	7	7	8	8	8	8	8	9
	3	5	5	1	4	4	5	6	6	0	0	5	0	1	1	4	6	7
	8	3	4	9	8	9	5	8	9	6	7	0	8	7	8	0	9	6

\*TOTALS

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leiomyosarcoma																	X		1
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hepatocellular Adenoma																			1
Mesentery								+											2
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
----------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:27  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 500PPM/CTL**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
ANIMAL ID	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	
	8	8	8	9	4	3	3	4	4	4	4	5	8	8	8	9	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	5	5	6	6	6	6	6	6	7	7	7	8	8	8	8	8	8	9	
	3	5	5	1	4	4	5	6	6	0	0	5	0	1	1	4	6	7	1	
	8	3	4	9	8	9	5	8	9	6	7	0	8	7	8	0	9	6	6	
	<b>*TOTALS</b>																			
Adenoma	X																		2	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	M	M	+	+	+	+	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma	X																		1	
Parathyroid Gland	M	+	M	M	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Adenoma		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	
Pars Distalis, Carcinoma																			1	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C Cell, Adenoma																			1	
C Cell, Carcinoma	X																		1	
Follicular Cel, Adenoma	X																		1	
<b>General Body System</b>																				
Tissue NOS																			1	
Liposarcoma																			1	
<b>Genital System</b>																				
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ovary	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	
Oviduct	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	+	+	+	+	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leiomyosarcoma																			X	1
Polyp Stromal	X																		3	

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
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Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:27  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F1 500PPM/CTL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS	
	ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
		3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5	5	5		
		8	8	8	9	4	3	3	4	4	4	4	5	8	8	8	9	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		5	5	5	6	6	6	6	6	6	7	7	7	8	8	8	8	8	9		
		3	5	5	1	4	4	5	6	6	0	0	5	0	1	1	4	6	7		
		8	3	4	9	8	9	5	8	9	6	7	0	8	7	8	0	9	6		
Vagina		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Sarcoma Stromal																				1	
<b>Hematopoietic System</b>																					
Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymph Node		+		+														+	+	+	9
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Thymus		+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	M	+	+	47	
<b>Integumentary System</b>																					
Mammary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Adenocarcinoma					X													X		7	
Adenocarcinoma, Multiple																				2	
Adenoma				X																1	
Fibroadenoma		X		X		X	X				X		X							18	
Fibroadenoma, Multiple											X			X		X		X		7	
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Fibroma																				1	
Osteosarcoma																		X		1	
Sarcoma							X													1	
<b>Musculoskeletal System</b>																					

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 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
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Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:30:27  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F1 500PPM/CTL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
		3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5	5	5
		8	8	8	9	4	3	3	4	4	4	4	5	8	8	8	9	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	5	5	6	6	6	6	6	6	7	7	7	8	8	8	8	8	9
		3	5	5	1	4	4	5	6	6	0	0	5	0	1	4	6	7	1
		8	3	4	9	8	9	5	8	9	6	7	0	8	7	8	0	9	6
		<b>*TOTALS</b>																	
Bone, Femur		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Bone, Tibia																			1
<b>Nervous System</b>																			
Brain, Brain Stem		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Brain, Cerebellum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Brain, Cerebrum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>Respiratory System</b>																			
Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Squamous Cell Carcinoma																			1
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>Special Senses System</b>																			
Eye		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	28
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26
Lacrimal Gland		+																	2
<b>Urinary System</b>																			
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
<b>SYSTEMIC LESIONS</b>																			
Multiple Organ		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

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

**Experiment Number:** 99930-94

**Test Type:** SPECIAL STUDY

**Route:** DOSED FEED

**Species/Strain:** Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

**Test Compound:** Endocrine disruptor (Genistein)

**CAS Number:** 446-72-0

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 17:30:27

**First Dose M/F:** NA / NA

**Lab:** NCTR

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

\* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically