

**Experiment Number:** 99930-93  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**  
**Test Compound:** Endocrine disruptor (Genistein)  
**CAS Number:** 446-72-0

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 12:52:20  
**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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CD Rat Male F3 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	4	4	4	4	4	5	5	5	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
	6	0	6	9	9	9	0	5	8	0	3	6	6	8	9	2	4	4	5	5	5	5	5	5	5	5	5	5	5		
	0	2	8	4	7	7	6	0	1	6	9	5	2	5	3	5	9	2	4	1	1	1	1	0	2	2	5	5	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	1	1	1	1
	0	1	1	1	1	1	1	2	2	2	2	3	3	4	4	6	9	9	9	9	9	9	9	9	9	9	9	0	0	0	0
	5	0	2	4	4	4	5	0	3	9	9	5	9	1	4	2	3	4	4	7	7	7	7	9	9	4	4	4	4	7	
	5	4	6	4	6	7	1	6	9	5	6	1	8	3	3	2	8	7	8	0	1	2	3	4	0	1	4	5	6	7	2

Alimentary System

Esophagus	A	A	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adventitia, Fibrous Histiocytoma, Metastatic, Uncertain Primary Site																															
Intestine Large, Cecum	A	A	A	A	A	+	A	+	+	M	+	+	+	A	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon	A	A	A	A	A	+	A	+	+	M	+	+	+	A	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	
Adenocarcinoma																															
Intestine Large, Rectum	A										+	+	+	A	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	
Leiomyosarcoma																															
Intestine Small, Duodenum	A	A	A	A	A	+	A	+	+	M	+	+	+	A	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	
Adenocarcinoma																															
Intestine Small, Ileum	A	A	A	A	A	+	A	+	A	M	+	+	+	A	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	A	A	A	A	A	A	A	+	+	M	+	+	+	A	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	A	+	+	M	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hepatocellular Adenoma																															
Hepatocellular Carcinoma																															
Leukemia	X																														
Lymphoma Malignant		X			X																										
Pancreas	A	M	I	A	+	+	+	A	+	+	M	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Salivary Glands	A	+	+	A	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site																															
Lymphoma Malignant		X			X																										

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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	0
ANIMAL ID	2	4	4	4	4	4	5	5	5	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	6	0	6	9	9	9	0	5	8	0	3	6	6	8	9	2	4	4	5	5	5	5	5	5	5	5	5	5	5
	0	2	8	4	7	7	6	0	1	6	9	5	2	5	3	5	9	2	4	1	1	1	1	0	2	2	5	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	1	1	1
	0	1	1	1	1	1	1	2	2	2	2	3	3	4	4	6	9	9	9	9	9	9	9	9	9	9	9	9	9
	5	0	2	4	4	4	5	0	3	9	9	5	9	1	4	2	3	4	4	7	7	7	7	9	9	4	4	4	
	5	4	6	4	6	7	1	6	9	5	6	1	8	3	4	2	8	7	8	0	1	1	1	4	1	4	5	6	
Stomach, Forestomach	A	A	A	A	A	A	+	+	+	+	M	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Glandular	A	A	A	A	A	A	+	A	+	+	M	+	+	+	A	A	+	+	A	+	+	+	+	+	+	+	+	+	
<b>Cardiovascular System</b>																													
Blood Vessel	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site																												X	
Heart	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymphoma Malignant		X																											
Pericardium, Fibrous Histiocytoma, Metastatic, Uncertain Primary Site																												X	
<b>Endocrine System</b>																													
Adrenal Cortex	A	+	+	A	+	+	+	A	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymphoma Malignant		X																											
Adrenal Medulla	A	+	+	A	+	+	+	A	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymphoma Malignant		X																											
Pheochromocytoma Benign																													
Pheochromocytoma Malignant																													
Islets, Pancreatic	A	M	I	+	+	+	+	A	+	+	M	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																												X	
Lymphoma Malignant						X																							
Parathyroid Gland	I	+	+	+	+	+	+	+	+	+	M	I	+	+	+	+	+	+	M	+	+	M	+	M	+	+	+	+	
Lymphoma Malignant		X																											

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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	0		
	2	4	4	4	4	4	5	5	5	6	6	6	6	6	6	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	1	1	1	1	1	1	2	2	2	2	3	3	4	4	6	9	9	9	9	9	9	9	9	9	9	9	9	9		
	5	0	2	4	4	4	5	0	3	9	9	5	9	1	4	2	3	4	4	7	7	7	7	9	9	4	4	4	7		
	5	4	6	4	4	7	1	6	9	5	6	1	8	3	3	2	8	7	8	0	1	2	3	4	0	1	4	5	6	7	2
Pituitary Gland	A	+	+	A	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Lymphoma Malignant		X			X																										
Pars Distalis, Adenoma							X		X	X		X	X		X					X			X	X	X				X		
Pars Distalis, Adenoma, Multiple																															
Thyroid Gland	+	+	A	A	+	A	+	A	+	+	M	+	+	+	A	A	+	M	+	+	+	+	+	+	+	+	+	+	+		
Bilateral, C Cell, Adenoma																															
C Cell, Adenoma																															
Lymphoma Malignant		X			X																										
<b>General Body System</b>																															
NONE																															
<b>Genital System</b>																															
Coagulating Gland	A	A	A	A	+	+	+	A	+	+	M	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+		
Lymphoma Malignant					X																										
Epididymis	+	A	+	+	+	+	+	+	+	+	M	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Lymphoma Malignant					X																										
Preputial Gland	+	+	+	A	+	+	+	+	+	+	M	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+		
Lymphoma Malignant		X			X																										
Prostate				+	+						M	+						+													
Prostate, Dorsal Lobe	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Lymphoma Malignant		X			X																										
Prostate, Ventral Lobe	+	+	A	+	+	+	+	+	+	+	M	+	+	+	+	M	+	+	A	+	+	+	+	+	+	+	+	+	+		
Lymphoma Malignant		X			X																										

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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
Rete Testes		+	+	+	+	M	M	+	+	+	+	M	+	+	+	+	+	+	M	M	+	+	+	+	+	+	+	+	+
Seminal Vesicle		A	A	A	A	+	A	+	A	+	+	M	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+
Lymphoma Malignant						X																							
Testes		+	+	+	+	+	+	+	+	+	+	M		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Interstitial Cell, Adenoma																													X
Seminoma Benign																													
<b>Hematopoietic System</b>																													
Bone Marrow		+	+	+	+	+	A	+	A	+	+	M	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia		X																											
Lymphoma Malignant			X			X																							
Lymph Node		+	+			+										+		A	+									+	
Axillary, Lymphoma Malignant							X																						
Inguinal, Leukemia		X																											
Inguinal, Lymphoma Malignant							X																						
Lumbar, Lymphoma Malignant							X																						
Renal, Lymphoma Malignant			X																										
Lymph Node, Mandibular		+	+	+	+	+	A	+	+	+	+	M	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site																													X
Leukemia		X																											
Lymphoma Malignant			X			X																							
Lymph Node, Mesenteric		A	+	A	+	+	A	+	+	+	+	M	+	+	+	A	A	+	+	A	+	+	+	+	+	+	+	+	+

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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
Lymphoma Malignant			X				X																						
Spleen		+	+	+	+	+	+	+	A	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia		X																											
Lymphoma Malignant			X				X																						
Sarcoma																													
Thymus		A	+	+	+	+	A	+	+	+	+	M	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	
Adventitia, Fibrous Histiocytoma, Metastatic, Uncertain Primary Site																													X
Lymphoma Malignant			X				X																						
<b>Integumentary System</b>																													
Mammary Gland		A	I	I	A	I	A	+	A	+	I	M	I	+	+	A	M	I	+	+	+	+	+	+	+	+	+	+	
Skin		+	A	+	+	+	+	+	A	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Keratoacanthoma																													
Schwannoma Malignant																													X
Squamous Cell Carcinoma														X															
<b>Musculoskeletal System</b>																													
Bone, Cranium						+																							
Bone, Femur		+	A	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle																													+
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site																													X
<b>Nervous System</b>																													

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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	0	0
Brain, Brain Stem	A	+	+	A	A	+	+	A	+	+	M	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoma Malignant			X																												
Brain, Cerebellum	A	+	+	+	A	+	+	A	+	+	M	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	
Astrocytoma Malignant				X																											
Lymphoma Malignant			X																												
Brain, Cerebrum	A	+	+	A	A	+	+	A	+	+	M	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	
Astrocytoma Malignant																															
Lymphoma Malignant			X																												
<b>Respiratory System</b>																															
Lung	A	+	+	A	+	+	+	+	+	+	M	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site																															
Lymphoma Malignant			X		X																										
Nose	A	+	+	A	+	+	+	A	+	+	M	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymphoma Malignant			X		X																										
Trachea	A	+	+	A	+	A	+	A	+	+	M	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adventitia, Fibrous Histiocytoma, Metastatic, Uncertain Primary Site																															
Lymphoma Malignant			X		X																										
<b>Special Senses System</b>																															
Eye	A										M		+	+	A	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	
Harderian Gland	A										M		+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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 F3 OPPM

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

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Adventitia, Fibrous Histiocytoma, Metastatic, Uncertain Primary Site																					1
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	41
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	41
Adenocarcinoma																					1
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	38
Leiomyosarcoma																					1
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	41
Adenocarcinoma																					2
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	40
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	40
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Hepatocellular Adenoma																					1
Hepatocellular Carcinoma																					1
Leukemia																					1
Lymphoma Malignant																					2
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site																					1
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: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:22  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F3 OPPM	DAY ON TEST	ANIMAL ID																				*TOTALS
		0755	0755	0755	0755	0755	0755	0755	0755	0755	0755	0755	0755	0755	0755	0755	0755	0755	0755	0755	0755	
Stomach, Forestomach		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Stomach, Glandular		7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	41
<b>Cardiovascular System</b>		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
Blood Vessel		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	51
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	1
Heart		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	51
Lymphoma Malignant		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1
Pericardium, Fibrous Histiocytoma, Metastatic, Uncertain Primary Site		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1
<b>Endocrine System</b>		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Adrenal Cortex		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	48
Lymphoma Malignant		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Adrenal Medulla		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	48
Lymphoma Malignant		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Pheochromocytoma Benign		X			X		X													X		4
Pheochromocytoma Malignant														X								1
Islets, Pancreatic		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	45
Adenoma													X					X				3
Lymphoma Malignant		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Parathyroid Gland		4	4	4	M	4	I	4	M	4	4	4	4	4	4	4	4	4	4	4	4	41
Lymphoma Malignant		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	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: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:22  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male  
 F3 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	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
	5	5	5	5	5	5	5	5	5	5	6	6	6	4	4	3	3	3	2	5	4	5	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	0	
	9	9	3	3	3	3	3	3	3	5	7	7	7	7	7	8	8	8	9	0	0	9	
	8	9	0	1	2	3	4	5	6	4	5	6	7	8	9	0	1	2	9	0	0	9	
																					<b>*TOTALS</b>		
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Lymphoma Malignant																						2	
Pars Distalis, Adenoma												X			X	X	X	X				16	
Pars Distalis, Adenoma, Multiple													X									1	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44	
Bilateral, C Cell, Adenoma											X											1	
C Cell, Adenoma																						1	
Lymphoma Malignant																						2	
<b>General Body System</b>																							
NONE																							
<b>Genital System</b>																							
Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44	
Lymphoma Malignant																						1	
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Lymphoma Malignant																						1	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Lymphoma Malignant																						2	
Prostate							+			+												6	
Prostate, Dorsal Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51	
Lymphoma Malignant																						2	
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Lymphoma Malignant																						2	

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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: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:22  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male  
 F3 OPPM

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	
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	5	5	5	5	5	5	5	5	5	6	6	6	4	4	3	3	3	2	5	4	5
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	
	9	9	3	3	3	3	3	3	3	5	7	7	7	7	8	8	8	9	0	0	
	8	9	0	1	2	3	4	5	6	4	5	6	7	8	9	0	1	2	9	0	
	<b>*TOTALS</b>																				
Rete Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Lymphoma Malignant																					1
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Interstitial Cell, Adenoma																					1
Seminoma Benign							X														1
<b>Hematopoietic System</b>																					
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Leukemia																					1
Lymphoma Malignant																					2
Lymph Node	+								+			+			+				+		13
Axillary, Lymphoma Malignant																					1
Inguinal, Leukemia																					1
Inguinal, Lymphoma Malignant																					1
Lumbar, Lymphoma Malignant																					1
Renal, Lymphoma Malignant																					1
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site																					1
Leukemia																					1
Lymphoma Malignant																					2
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45

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

Experiment Number: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:22  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male  
 F3 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	
ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	5	5	5	5	5	5	5	5	5	6	6	6	4	4	3	3	3	2	5	4	5	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	
	9	9	3	3	3	3	3	3	3	5	7	7	7	7	8	8	8	8	9	0	0	
	8	9	0	1	2	3	4	5	6	4	5	6	7	8	9	0	1	2	9	0	9	*TOTALS
Lymphoma Malignant																						2
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia																						1
Lymphoma Malignant																						2
Sarcoma												X										1
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	46
Adventitia, Fibrous Histiocytoma, Metastatic, Uncertain Primary Site																						1
Lymphoma Malignant																						2
<b>Integumentary System</b>																						
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	39
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Keratoacanthoma												X										1
Schwannoma Malignant																						1
Squamous Cell Carcinoma																						1
<b>Musculoskeletal System</b>																						
Bone, Cranium											+											2
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Skeletal Muscle																						1
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site																						1
<b>Nervous System</b>																						

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 A ..Autolysis precludes evaluation  
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Experiment Number: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:23  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male  
 F3 OPPM

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	
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	5	5	5	5	5	5	5	5	5	6	6	6	4	4	3	3	3	2	5	4	5
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	0
	9	9	3	3	3	3	3	3	3	5	7	7	7	7	8	8	8	9	0	0	9
	8	9	0	1	2	3	4	5	6	4	5	6	7	8	9	0	1	2	9	0	9
	<b>*TOTALS</b>																				
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Lymphoma Malignant																					1
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Astrocytoma Malignant																					1
Lymphoma Malignant																					1
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Astrocytoma Malignant										X											1
Lymphoma Malignant																					1
<b>Respiratory System</b>																					
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site																					1
Lymphoma Malignant																					2
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Lymphoma Malignant																					2
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Adventitia, Fibrous Histiocytoma, Metastatic, Uncertain Primary Site																					1
Lymphoma Malignant																					2
<b>Special Senses System</b>																					
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	37
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	38

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Experiment Number: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:23  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F3 OPPM**

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

**Urinary System**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Lymphoma Malignant																					2
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Lymphoma Malignant																					1

**SYSTEMIC LESIONS**

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Leukemia																					1
Lymphoma Malignant																					2

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 + ..Tissue examined microscopically  
 X ..Lesion present  
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Experiment Number: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:23  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F3 5PPM TO 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
	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	2	5	5	5	5	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	
		8	9	2	7	8	9	1	9	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
		4	5	2	0	7	3	7	4	1	1	1	1	1	1	1	2	2	2	1	5	5	4	4	4	4	5	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	1	1	1	1	1	1	1	1	1	1	1	1	
		0	0	1	2	2	2	3	5	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2	5	7	2	7	8	1	6	7	7	7	7	8	8	8	9	9	9	4	4	5	5	5	5	5	7	7	7	7	7		
		0	9	7	7	2	2	2	0	5	6	7	8	9	0	1	2	2	3	4	5	8	9	0	1	2	3	3	4	5	6	7	

**Alimentary System**

Esophagus	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	A	A	A	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	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	A	A	A	A	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	A	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hepatocellular Carcinoma																																
Mesentery																																
Pancreas	+	+	+	A	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Salivary Glands	+	+	+	A	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	A	+	A	A	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Glandular	+	A	A	A	A	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

**Cardiovascular System**

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

**Endocrine System**

Adrenal Cortex	+	+	+	A	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adrenal Medulla	+	+	+	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: 99930-93

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/17/2014

Time Report Requested: 12:52:23

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Male  
F3 5PPM TO 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		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pheochromocytoma Benign																														
Islets, Pancreatic Adenoma																														
Parathyroid Gland																														
Pituitary Gland																														
Pars Distalis, Adenoma																														
Thyroid Gland																														
<b>General Body System</b>																														
Tissue NOS																														
Abdominal, Sarcoma																														
<b>Genital System</b>																														
Coagulating Gland																														
Epididymis																														
Mesothelioma Malignant																														
Preputial Gland																														
Prostate																														
Prostate, Dorsal Lobe																														
Mesothelioma Malignant																														
Prostate, Ventral Lobe																														
Rete Testes																														
Seminal Vesicle																														
Testes																														

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 X ..Lesion present  
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**Experiment Number:** 99930-93  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**  
**Test Compound:** Endocrine disruptor (Genistein)  
**CAS Number:** 446-72-0

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 12:52:24  
**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	0		
CD Rat Male	0	2	5	5	5	5	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7			
F3 5PPM TO CTL	8	9	2	7	8	9	1	9	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5			
	4	5	2	0	7	3	7	4	1	1	1	1	1	1	1	2	2	2	1	5	5	4	4	4	4	5	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	1	1	1	1	1	1	1	1	1	1			
	0	0	1	2	2	2	3	5	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0				
	2	5	7	2	7	8	1	6	7	7	7	7	8	8	8	9	9	9	9	4	4	5	5	5	5	7	7				
	0	9	7	7	2	2	2	0	5	6	7	8	9	0	1	2	2	3	4	5	8	9	0	1	2	3	3	4	5	6	7

Interstitial Cell, Adenoma																															
Mesothelioma Malignant	X																														
<b>Hematopoietic System</b>																															
Bone Marrow	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node																															
Lymph Node, Mandibular	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mesenteric	+	+	+	A	A	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Sarcoma																															
Thymus	+	A	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Integumentary System</b>																															
Mammary Gland	I	A	I	I	A	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibroma	X																														
<b>Musculoskeletal System</b>																															
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Nervous System</b>																															
Brain, Brain Stem	+	+	A	A	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Brain, Cerebellum	+	+	A	A	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Brain, Cerebrum	+	+	A	A	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Astrocytoma Malignant	X																														

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 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
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 A ..Autolysis precludes evaluation  
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Experiment Number: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:24  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male  
 F3 5PPM TO 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
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	4	5	5	5	5	5	4	4	5	4	5	4	4	4	1	1	0	0	1
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2
	7	0	3	3	3	4	4	4	8	8	0	0	0	0	0	0	0	1	1
	8	0	7	8	9	0	1	2	3	4	1	2	3	4	5	6	7	8	2
	<b>*TOTALS</b>																		

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	42
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	42
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Hepatocellular Carcinoma																				1
Mesentery					+															1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43

**Cardiovascular System**

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

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	46

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M ..Missing tissue  
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Experiment Number: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:24  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male  
 F3 5PPM TO 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	
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	4	5	5	5	5	5	5	4	4	5	4	5	4	4	4	1	1	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	
	7	0	3	3	3	4	4	4	8	8	0	0	0	0	0	0	0	1	
	8	0	7	8	9	0	1	2	3	4	1	2	3	4	5	6	7	8	
Pheochromocytoma Benign							X											3	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Adenoma		X											X					3	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	46	
Pituitary Gland	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	46	
Pars Distalis, Adenoma	X		X	X	X		X					X	X	X				18	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46	
<b>General Body System</b>																			
Tissue NOS										+								1	
Abdominal, Sarcoma									X									1	
<b>Genital System</b>																			
Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43	
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Mesothelioma Malignant																		1	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Prostate	+																	8	
Prostate, Dorsal Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Mesothelioma Malignant																		1	
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46	
Rete Testes	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

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CD Rat Male  
 F3 5PPM TO 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
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	4	5	5	5	5	5	4	4	5	4	5	4	4	4	1	1	0	0	1
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2
	7	0	3	3	3	4	4	4	8	8	0	0	0	0	0	0	0	0	1
	8	0	7	8	9	0	1	2	3	4	1	2	3	4	5	6	7	8	2
	<b>*TOTALS</b>																		

Interstitial Cell, Adenoma	X																		1
Mesothelioma Malignant																			1
<b>Hematopoietic System</b>																			
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Lymph Node	+	+	+				+							+					9
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Sarcoma	X																		1
Thymus	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
<b>Integumentary System</b>																			
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Fibroma																			1
<b>Musculoskeletal System</b>																			
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>Nervous System</b>																			
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Astrocytoma Malignant																			1

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CD Rat Male  
 F3 5PPM TO 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
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	4	5	5	5	5	5	4	4	5	4	5	4	4	4	1	1	0	0	1
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2
	7	0	3	3	3	4	4	4	8	8	0	0	0	0	0	0	0	1	1
	8	0	7	8	9	0	1	2	3	4	1	2	3	4	5	6	7	8	2
	<b>*TOTALS</b>																		

**Respiratory System**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Adenocarcinoma																				1
Carcinoma, Metastatic, Uncertain Primary Site																				1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Squamous Cell Carcinoma														X						1
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44

**Special Senses System**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Retrobulbar, Carcinoma																				1
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Lacrimal Gland									+											2

**Urinary System**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Urethra																				2
Urinary Bladder	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	43

**SYSTEMIC LESIONS**

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Mesothelioma Malignant																				1

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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:** 99930-93  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**  
**Test Compound:** Endocrine disruptor (Genistein)  
**CAS Number:** 446-72-0

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 12:52:25  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

<b>CD Rat Male</b> <b>F3 100PPM TO CTL</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	3	5	5	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
		5	3	2	4	5	5	7	9	4	5	6	6	8	8	0	1	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5
		1	8	7	4	0	5	0	3	5	9	6	5	1	0	2	5	7	1	1	1	2	1	1	1	1	1	1	1	1	1	1
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		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
		0	0	1	2	2	2	2	2	3	3	4	4	4	4	7	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
		1	8	8	0	0	1	2	7	6	8	0	0	3	4	8	3	4	8	8	8	8	9	9	9	9	9	9	9	9	9	9
		6	9	8	3	7	4	8	9	7	6	2	3	7	0	1	4	6	3	4	5	6	7	8	9	0	1	2	3	4	5	6

**Endocrine System**

Adrenal Cortex	+	+	+	+	A	+		+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																		X															
Leukemia Mononuclear					X																												
Adrenal Medulla	+	+	+	+	A	+		+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia Mononuclear					X																												
Pheochromocytoma Benign															X								X				X						
Islets, Pancreatic	A	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																									X								
Carcinoma																																	
Parathyroid Gland	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+
Adenoma																																	
Pituitary Gland	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Adenoma						X					X			X			X						X		X	X						X	X
Thyroid Gland	A	+	A	+	A	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

**General Body System**

NONE

**Genital System**

Coagulating Gland	M	+	+	+	A	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Histiocytic Sarcoma																																	
Sarcoma, Metastatic, Uncertain Primary Site																																	

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 + ..Tissue examined microscopically  
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 I ..Insufficient tissue

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 BLANK ..Not examined microscopically

Experiment Number: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:25  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F3 100PPM TO 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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Epididymis		0	3	5	5	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
Preputial Gland		5	3	2	4	5	5	7	9	4	5	6	6	8	8	0	1	3	5	5	5	5	5	5	5	5	5	5	5	5
Carcinoma		1	8	7	4	0	5	0	3	5	9	6	5	1	0	2	5	7	1	1	1	1	1	1	1	1	1	1	1	1
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
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
Prostate, Dorsal Lobe		0	0	1	2	2	2	2	2	3	3	4	4	4	4	7	9	9	9	9	9	9	9	9	9	9	9	9	9	9
Histiocytic Sarcoma		1	8	8	0	0	1	2	7	6	8	0	0	3	4	8	3	4	8	8	8	9	9	9	9	9	9	9	9	9
Sarcoma, Metastatic, Uncertain Primary Site		6	9	8	3	7	4	8	9	7	6	2	3	7	0	1	4	6	3	4	5	6	7	8	9	0	0	0	0	0
Prostate, Ventral Lobe		+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma		M																												
Rete Testes		M	+	+	+	M	+																							
Seminal Vesicle		M	A	+	+	+	+																							
Adenoma																														
Histiocytic Sarcoma																														
Sarcoma																														
Sarcoma, Metastatic, Uncertain Primary Site																														
Testes		A	+	+	+	+	+																							
<b>Hematopoietic System</b>																														
Bone Marrow		A	+	+	+	+	+																							
Histiocytic Sarcoma																														
Lymph Node								+						+				+	+	+										
Lumbar, Histiocytic Sarcoma																														

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**Experiment Number:** 99930-93  
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**Species/Strain:** Rat/CD

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

**CD Rat Male**  
**F3 100PPM TO 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	3	5	5	5	5	5	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	5	3	2	4	5	5	7	9	4	5	6	6	8	8	0	1	3	5	5	5	5	5	5	5	5	5	5	5	
	1	8	7	4	0	5	0	3	5	9	6	5	1	0	2	5	7	1	1	1	2	1	1	1	1	1	1	1	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	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	3	3	4	4	4	4	7	9	9	9	9	9	9	9	9	9	0	0	0	0	
	1	8	8	0	0	1	2	7	6	8	0	0	3	4	8	3	4	8	8	8	9	9	9	9	0	0	0	0	
	6	9	8	3	7	4	8	9	7	6	2	3	7	0	1	4	6	3	4	5	6	7	8	9	0	1	2	3	

Mediastinal, Histiocytic Sarcoma																														
Renal, Histiocytic Sarcoma																														
Lymph Node, Mandibular Histiocytic Sarcoma	M	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mesenteric Histiocytic Sarcoma	A	+	+	+	A	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen Histiocytic Sarcoma	A	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia Mononuclear				X																										
Thymus	M	+	+	+	+	+		+	+	+	+	+	M	+	M	+	M	+	+	+	+	+	+	+	+	+	+	+	I	
<b>Integumentary System</b>																														
Mammary Gland Adenocarcinoma	A	+	+	+	A	I		+	M	I	I	+	+	+	I	+	+	+	+	+	+	+	I	+	+	+	+	+	+	
Skin Lipoma	A	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Squamous Cell Carcinoma								X									X													
<b>Musculoskeletal System</b>																														
Bone, Femur	+	+	+	+	+	+		+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Nervous System</b>																														
Brain, Brain Stem	A	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Brain, Cerebellum	A	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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Experiment Number: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
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CD Rat Male F3 100PPM TO 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	3	5	5	5	5	5	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	ANIMAL ID	1	8	7	4	0	5	0	3	5	9	6	5	1	0	2	5	7	1	1	1	2	1	1	1	1	1	1	1
Brain, Cerebrum	A	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Respiratory System</b>																													
Lung	A	+	+	+	A	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Histiocytic Sarcoma																													
Leukemia Mononuclear				X																									
Nose	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Squamous Cell Carcinoma								X																					
Trachea	+	+	+	+	A	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Special Senses System</b>																													
Eye	A													+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Harderian Gland	A													+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lacrimal Gland										+																			
Zymbal's Gland							+																						
Adenoma					X																								
<b>Urinary System</b>																													
Kidney	A	+	+	+	A	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Histiocytic Sarcoma																													
Leukemia Mononuclear				X																									
Urethra																	+												
Urinary Bladder	M	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>SYSTEMIC LESIONS</b>																													

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Experiment Number: 99930-93  
 Test Type: SPECIAL STUDY  
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 Species/Strain: Rat/CD

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 CAS Number: 446-72-0

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

CD Rat Male  
 F3 100PPM TO 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	
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	3	5	5	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	
	5	3	2	4	5	5	7	9	4	5	6	6	8	8	0	1	3	5	5	5	5	5	5	5	5	5	5	5	5	5	
	1	8	7	4	0	5	0	3	5	9	6	5	1	0	2	5	7	1	1	1	2	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	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	
	0	0	1	2	2	2	2	2	3	3	4	4	4	4	7	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	
	1	8	8	0	0	1	2	7	6	8	0	0	3	4	8	3	4	8	8	8	9	9	9	9	0	0	0	0	0	0	
	6	9	8	3	7	4	8	9	7	6	2	3	7	0	1	4	6	3	4	5	6	7	8	9	0	1	2	3	4	5	
Multiple Organ	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Histiocytic Sarcoma																															
Leukemia Mononuclear				X																											

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 Lab: NCTR

CD Rat Male  
 F3 100PPM TO 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
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	5	5	5	4	4	4	5	5	5	5	5	6	5	5	5	5	6	4	6
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2
	5	5	5	6	6	6	7	8	8	8	8	4	4	4	4	4	8	8	1
	4	5	6	6	7	8	9	0	1	3	6	3	4	5	6	7	5	6	1
	<b>*TOTALS</b>																		

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	38
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Intestine Small, Ileum	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	45
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Histiocytic Sarcoma														X						1
Leukemia Mononuclear																				1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Acinar Cell, Adenoma				X																2
Histiocytic Sarcoma														X						1
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Tongue																				1

**Cardiovascular System**

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

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 + ..Tissue examined microscopically  
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 Lab: NCTR

**CD Rat Male**  
**F3 100PPM TO 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
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	5	5	5	4	4	4	5	5	5	5	5	6	5	5	5	5	6	4	6
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2
	5	5	5	6	6	6	7	8	8	8	8	4	4	4	4	4	8	8	1
	4	5	6	6	7	8	9	0	1	3	6	3	4	5	6	7	5	6	1
	<b>*TOTALS</b>																		

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Adenoma																				1
Leukemia Mononuclear																				1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Leukemia Mononuclear																				1
Pheochromocytoma Benign											X									4
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Adenoma																	X			2
Carcinoma																			X	1
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Adenoma							X													1
Pituitary Gland	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	48
Pars Distalis, Adenoma			X		X		X	X			X	X				X				17
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46

**General Body System**

NONE

**Genital System**

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Histiocytic Sarcoma															X					1
Sarcoma, Metastatic, Uncertain Primary Site		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: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:26  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F3 100PPM TO 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
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	5	5	5	4	4	4	5	5	5	5	5	6	5	5	5	5	6	4	6
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2
	5	5	5	6	6	6	7	8	8	8	4	4	4	4	4	8	8	1	1
	4	5	6	6	7	8	9	0	1	3	6	4	5	6	7	5	6	1	1
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Carcinoma																			1
Squamous Cell Carcinoma										X									5
Prostate									+	+								+	6
Prostate, Dorsal Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Histiocytic Sarcoma															X				1
Sarcoma, Metastatic, Uncertain Primary Site			X																1
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma			X																1
Rete Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma																		X	1
Histiocytic Sarcoma														X					1
Sarcoma												X							1
Sarcoma, Metastatic, Uncertain Primary Site			X																1
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<b>Hematopoietic System</b>																			
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Histiocytic Sarcoma															X				1
Lymph Node			+			+	+		+			+		+					+
Lumbar, Histiocytic Sarcoma														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:** 99930-93  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**  
**Test Compound:** Endocrine disruptor (Genistein)  
**CAS Number:** 446-72-0

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 12:52:26  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**CD Rat Male  
F3 100PPM TO 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	0	0	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	5	5	5	4	4	4	5	5	5	5	5	5	6	5	5	5	5	6	4	6	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	
	5	5	5	6	6	6	7	8	8	8	8	4	4	4	4	4	4	8	8	1	
	4	5	6	6	7	8	9	0	1	3	6	3	4	5	6	7	5	6	1		
Mediastinal, Histiocytic Sarcoma														X						1	
Renal, Histiocytic Sarcoma														X						1	
Lymph Node, Mandibular Histiocytic Sarcoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Lymph Node, Mesenteric Histiocytic Sarcoma														X						1	
Lymph Node, Mesenteric Histiocytic Sarcoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Spleen Histiocytic Sarcoma															X					1	
Spleen Histiocytic Sarcoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Spleen Histiocytic Sarcoma															X					1	
Spleen Leukemia Mononuclear																				1	
Thymus	+	+	I	+	I	+	+	+	+	+	+	+	+	I	+	+	+	+	+	41	
<b>Integumentary System</b>																					
Mammary Gland Adenocarcinoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	41	
Mammary Gland Adenocarcinoma																				1	
Skin Lipoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Skin Lipoma											X									1	
Skin Squamous Cell Carcinoma				X																3	
<b>Musculoskeletal System</b>																					
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
<b>Nervous System</b>																					
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	

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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: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:27  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F3 100PPM TO CTL**

	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	
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	5	5	5	4	4	4	5	5	5	5	5	5	6	5	5	5	5	6	4	6
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2
	5	5	5	6	6	6	7	8	8	8	8	4	4	4	4	4	4	8	8	1
	4	5	6	6	7	8	9	0	1	3	6	3	4	5	6	7	5	6	6	1
	<b>*TOTALS</b>																			
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<b>Respiratory System</b>																				
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Histiocytic Sarcoma															X					
Leukemia Mononuclear																				
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Squamous Cell Carcinoma																				
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<b>Special Senses System</b>																				
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lacrimal Gland																				
Zymbal's Gland																				
Adenoma																				
<b>Urinary System</b>																				
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Histiocytic Sarcoma															X					
Leukemia Mononuclear																				
Urethra																				
Urinary Bladder	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+
<b>SYSTEMIC LESIONS</b>																				

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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: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:27  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male  
 F3 100PPM TO 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	
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	5	5	5	4	4	4	5	5	5	5	5	6	5	5	5	5	6	4	6
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	2	
	5	5	5	6	6	6	7	8	8	8	8	4	4	4	4	4	8	8	
	4	5	6	6	7	8	9	0	1	3	6	3	4	5	6	7	5	6	
	<b>*TOTALS</b>																		
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Histiocytic Sarcoma														X					1
Leukemia Mononuclear																			1

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 + ..Tissue examined microscopically  
 X ..Lesion present  
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 BLANK ..Not examined microscopically



Experiment Number: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:27  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F3 500PPM TO 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					
	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					
		5	7	0	2	3	5	0	2	2	3	4	7	1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5					
		0	9	8	9	2	4	1	4	9	6	3	8	1	9	3	1	1	1	2	1	1	1	1	1	4	4	4	4	4	4	4					
Leukemia Granulocytic				X																																	
Stomach, Forestomach	+	+	+	+	+	A	+		+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Stomach, Glandular	+	+	+	+	A	A	+		+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
<b>Cardiovascular System</b>																																					
Blood Vessel	+	+	A	+	+	A	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Heart	+	+	+	+	+	A	+		A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Leukemia Granulocytic				X																																	
<b>Endocrine System</b>																																					
Adrenal Cortex	+	+	+	+	A	+	+		A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Leukemia Granulocytic				X																																	
Adrenal Medulla	+	+	A	+	A	M	+		A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Pheochromocytoma Benign														X																							
Islets, Pancreatic	+	+	+	+	+	+	+		+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia Granulocytic				X																																	
Parathyroid Gland	+	+	+	+	+	+	+		+	+	+	+	M	+	M	+	+	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland	+	+	A	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Adenoma					X							X	X	X			X						X	X													
Pars Distalis, Adenoma, Multiple																																					
Thyroid Gland	+	+	+	+	A	A	A		A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C Cell, Adenoma																																					
C Cell, Carcinoma																																					
Leukemia Granulocytic				X																																	

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 + ..Tissue examined microscopically  
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Experiment Number: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:28  
 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 Male F3 500PPM TO CTL	0	0	5	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
	5	7	0	2	3	5	0	2	2	2	3	4	7	1	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	0	9	8	9	2	4	1	4	9	6	8	1	9	3	1	1	1	1	2	1	1	1	1	1	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	1	1	1	1	1	1	1	1	1	1	1
	0	0	1	1	1	2	2	3	3	3	3	4	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0
	1	1	5	8	9	0	8	2	3	4	5	7	3	3	8	8	8	8	0	0	1	1	1	1	5	5	5	6
	7	9	4	9	0	9	5	3	6	7	6	4	5	3	6	7	8	9	7	8	9	0	1	2	3	7	8	9

Mesothelioma Malignant

X

**Hematopoietic System**

Bone Marrow	+	+	+	+	+	A	+		+	+	+	A	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Carcinoma, Metastatic, Pancreas				X																																	
Leukemia Granulocytic			X																																		
Lymph Node			+																			+	+			+										+	
Inguinal, Leukemia Granulocytic			X																																		
Lumbar, Squamous Cell Carcinoma, Metastatic, Preputial Gland																																					
Thoracic, Leukemia Granulocytic			X																																		
Lymph Node, Mandibular	+	+	+	M	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia Granulocytic			X																																		
Lymph Node, Mesenteric	M	+	+	+	+	+	+		+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia Granulocytic			X																																		
Spleen	+	+	+	+	A	+	+		A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Carcinoma, Metastatic, Pancreas				X																																	
Leukemia Granulocytic			X																																		
Thymus	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Granulocytic			X																																		

**Integumentary System**

Mammary Gland	I	+	I	+	+	I	+		A	+	I	A	+	+	+	+	+	+	+	+	I	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+		
Fibroadenoma																																						X

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Experiment Number: 99930-93  
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 CAS Number: 446-72-0

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

**CD Rat Male**  
**F3 500PPM TO 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
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	5	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	7	7	7	7	7	7
	5	7	0	2	3	5	0	2	2	2	3	4	7	1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	0	9	8	9	2	4	1	4	9	6	8	1	9	3	1	1	1	2	1	1	1	1	1	1	1	4	4	4	4	4	4	4	4	4	4
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	1	1	1	2	2	3	3	3	3	3	4	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	5	8	9	0	8	2	3	4	5	7	3	3	8	8	8	8	0	0	0	1	1	1	1	5	5	5	6	6	6	6	6	6	
	7	9	4	9	0	9	5	3	6	7	6	4	5	3	6	7	8	9	7	8	9	0	1	2	3	7	8	9	0	1	2	3	7	8	9

Fibroma																																					
Skin	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basal Cell Adenoma																																				X	
Keratoacanthoma																										X											
Leukemia Granulocytic				X																																	
Neurofibrosarcoma							X																														
Squamous Cell Papilloma																																				X	
<b>Musculoskeletal System</b>																																					
Bone												+																									
Chordoma												X																									
Bone, Femur	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle																																					
Carcinoma, Metastatic, Pancreas																																					
<b>Nervous System</b>																																					
Brain, Brain Stem	+	+	A	+	+	A	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Reticulosis Malignant																																					
Brain, Cerebellum	+	+	A	+	A	A	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Reticulosis Malignant																																					
Brain, Cerebrum	+	+	A	+	A	A	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Reticulosis 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: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:29  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male  
 F3 500PPM TO 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
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	4	4	4	5	5	5	5	5	5	5	5	4	5	5	5	5	3	2	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	8	8	8	0	0	4	4	5	5	5	5	8	8	8	9	9	9	9	1
	2	4	5	1	2	8	9	0	1	2	3	7	8	9	0	1	2	3	0
	*TOTALS																		

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Leukemia Granulocytic																				1
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Leukemia Granulocytic																				1
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	38
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Leukemia Granulocytic																				1
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	41
Adenocarcinoma																			X	1
Leukemia Granulocytic																				1
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Carcinoma, Metastatic, Pancreas																				1
Hepatocellular Adenoma									X											1
Leukemia Granulocytic																				1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Carcinoma																				1
Leukemia Granulocytic																				1
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Carcinoma, Metastatic, Pancreas																				1

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

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

Experiment Number: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
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P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
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Date Report Requested: 10/17/2014  
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 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F3 500PPM TO 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
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	4	4	4	5	5	5	5	5	5	5	4	5	5	5	5	3	2	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	8	8	8	0	0	4	4	5	5	5	5	8	8	8	9	9	9	9	1
	2	4	5	1	2	8	9	0	1	2	3	7	8	9	0	1	2	3	0

**\*TOTALS**

Leukemia Granulocytic																				1
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
<b>Cardiovascular System</b>																				
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Leukemia Granulocytic																				1
<b>Endocrine System</b>																				
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Leukemia Granulocytic																				1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Pheochromocytoma Benign								X												2
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Leukemia Granulocytic																				1
Parathyroid Gland	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	43
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Pars Distalis, Adenoma			X		X					X		X	X	X						14
Pars Distalis, Adenoma, Multiple								X												1
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
C Cell, Adenoma								X												1
C Cell, Carcinoma																				1
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: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:29  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F3 500PPM TO 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
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	4	4	4	5	5	5	5	5	5	5	4	5	5	5	5	3	2	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	8	8	8	0	0	4	4	5	5	5	5	8	8	8	9	9	9	9	1
	2	4	5	1	2	8	9	0	1	2	3	7	8	9	0	1	2	3	0
	<b>*TOTALS</b>																		

**General Body System**

Tissue NOS	2
Squamous Cell Carcinoma	1

**Genital System**

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Leukemia Granulocytic																				1
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Leukemia Granulocytic																				1
Mesothelioma Malignant																				1
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Leukemia Granulocytic																				1
Squamous Cell Carcinoma				X					X											3
Prostate																				4
Prostate, Dorsal Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Adenocarcinoma														X						1
Leukemia Granulocytic																				1
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Adenoma																				1
Leukemia Granulocytic																				1
Rete Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	41
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49

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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: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:29  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F3 500PPM TO 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
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	4	4	4	5	5	5	5	5	5	5	4	5	5	5	5	3	2	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	8	8	8	0	0	4	4	5	5	5	5	8	8	8	9	9	9	9
	2	4	5	1	2	8	9	0	1	2	3	7	8	9	0	1	2	3

**\*TOTALS**

Mesothelioma Malignant																			1
<b>Hematopoietic System</b>																			
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Carcinoma, Metastatic, Pancreas																			1
Leukemia Granulocytic																			1
Lymph Node			+	+	+	+								+				+	12
Inguinal, Leukemia Granulocytic																			1
Lumbar, Squamous Cell Carcinoma, Metastatic, Preputial Gland					X														1
Thoracic, Leukemia Granulocytic																			1
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Leukemia Granulocytic																			1
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Leukemia Granulocytic																			1
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Carcinoma, Metastatic, Pancreas																			1
Leukemia Granulocytic																			1
Thymus	+	+	+	+	M	+	+	M	+	+	+	+	I	+	+	+	+	I	44
Leukemia Granulocytic																			1
<b>Integumentary System</b>																			
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	41
Fibroadenoma			X																2

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 + ..Tissue examined microscopically  
 X ..Lesion present  
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Experiment Number: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:30  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F3 500PPM TO 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
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	4	4	4	5	5	5	5	5	5	5	5	4	5	5	5	5	3	2	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	8	8	8	0	0	4	4	5	5	5	5	8	8	8	9	9	9	9	1
	2	4	5	1	2	8	9	0	1	2	3	7	8	9	0	1	2	3	0
	<b>*TOTALS</b>																		

Fibroma					X					X										2
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Basal Cell Adenoma																				1
Keratoacanthoma																				1
Leukemia Granulocytic																				1
Neurofibrosarcoma																				1
Squamous Cell Papilloma																				1
<b>Musculoskeletal System</b>																				
Bone																				1
Chordoma																				1
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Skeletal Muscle																				1
Carcinoma, Metastatic, Pancreas																				1
<b>Nervous System</b>																				
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Reticulosis Malignant																				1
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Reticulosis Malignant																				1
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Reticulosis Malignant																				1
<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  
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Experiment Number: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
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P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:30  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F3 500PPM TO 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	
		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
		4	4	4	5	5	5	5	5	5	5	4	5	5	5	5	3	2	3	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	
		8	8	8	0	0	4	4	5	5	5	8	8	8	9	9	9	9	1	
		2	4	5	1	2	8	9	0	1	2	3	7	8	9	0	1	2	3	
Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Carcinoma, Metastatic, Pancreas																				1
Leukemia Granulocytic																				1
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Adventitia, Squamous Cell Carcinoma																				1
Leukemia Granulocytic																				1
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44
<b>Special Senses System</b>																				
Eye		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	39
Adventitia, Squamous Cell Carcinoma																				1
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	39
Adenoma																				1
Adventitia, Squamous Cell Carcinoma																				1
Lacrimal Gland																				1
<b>Urinary System</b>																				
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Adventitia, Carcinoma, Metastatic, Pancreas																				1
Leukemia Granulocytic																				1
Transit Epithe, Papilloma																				1
Urethra																				1
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46

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

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



Experiment Number: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:30  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male  
 F3 500PPM TO 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
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	4	4	4	5	5	5	5	5	5	5	4	5	5	5	5	3	2	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	8	8	8	0	0	4	4	5	5	5	8	8	8	9	9	9	9	9	1
	2	4	5	1	2	8	9	0	1	2	3	7	8	9	0	1	2	3	0
	*TOTALS																		

SYSTEMIC LESIONS

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Leukemia Granulocytic																				1
Mesothelioma Malignant																				1

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

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

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Experiment Number: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:30  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F3 0 PPM	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	0	0	
		4	4	5	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	
		8	8	0	8	8	9	1	1	3	5	6	7	9	0	0	0	0	2	3	3	5	5	5	5	5	5	5	5	5	
		9	6	0	4	4	0	2	3	0	8	1	7	5	1	6	8	7	5	4	4	1	1	0	2	2	5	4	4	5	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	1	1	1	1	1	
		1	1	1	2	2	2	3	3	3	3	3	4	6	7	8	8	8	9	9	9	9	9	9	9	0	0	0	0	0	
		3	4	5	5	5	7	0	1	4	9	9	3	6	8	2	2	2	3	4	4	5	5	5	1	1	3	3	3		
		5	0	0	1	2	1	1	0	1	0	3	1	1	0	2	7	8	6	2	4	0	1	2	4	5	1	2	3	0	

**Alimentary System**

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

**Cardiovascular System**

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

**Endocrine System**

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

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 X ..Lesion present  
 I ..Insufficient tissue

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Experiment Number: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:31  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female  
 F3 0 PPM

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
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	4	4	4	3	2	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
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	0	0	0	0	0	1	1	1	1	5	5	5	5	6	6	6	6	6	9	9	9
	8	3	4	5	8	9	0	1	2	3	6	7	8	9	0	1	2	3	4	4	5	6
	*TOTALS																					

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	42
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	51
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53
Fibrous Histiocytoma, Metastatic, Skin																						1
Oral Mucosa																						1
Sarcoma																						1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53

**Cardiovascular System**

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

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53
----------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

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 X ..Lesion present  
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 BLANK ..Not examined microscopically

Experiment Number: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

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

CD Rat Female  
 F3 0 PPM

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		0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	4	5	5	5	5	5	5	5	5	5	6	6	6	6	4	4	4	3	2	5	5	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	8	0	0	0	0	0	1	1	1	1	5	5	5	5	6	6	6	6	6	9	9	
	8	3	4	5	8	9	0	1	2	3	6	7	8	9	0	1	2	3	4	5	6	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53
Pheochromocytoma Benign																						2
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Adenoma																						1
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53
Pars Distalis, Adenoma	X					X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	41
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53
<b>General Body System</b>																						
NONE																						
<b>Genital System</b>																						
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	49
Adenoma		X																		X		2
Fibrous Histiocytoma, Metastatic, Skin																						1
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53
Tubulostromal Carcinoma								X														1
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53
Adenocarcinoma																						1
Polyp Stromal					X																	5
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52

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CD Rat Female  
 F3 0 PPM

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	
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	4	5	5	5	5	5	5	5	5	5	6	6	6	6	4	4	4	3	2	5	5	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	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	8	0	0	0	0	0	1	1	1	1	5	5	5	5	6	6	6	6	6	9	9	9	
	8	3	4	5	8	9	0	1	1	2	3	6	7	8	9	0	1	2	3	4	4	5	6
	<b>*TOTALS</b>																						

**Hematopoietic System**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53
Lymph Node		+					+		+	+	+		+				+			+	+	18
Inguinal, Sarcoma, Metastatic, Skin										X												1
Lumbar, Fibrous Histiocytoma, Metastatic, Skin																						1
Popliteal, Sarcoma, Metastatic, Skin											X											1
Sarcoma, Metastatic, Skin											X											1
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	M	+	+	48
Sarcoma																						1
Thymoma Malignant					X																	1

**Integumentary System**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53
Adenocarcinoma								X							X							5
Adenocarcinoma, Multiple																						2
Fibroadenoma			X		X							X			X		X				X	9
Fibroadenoma, Multiple	X		X	X			X	X	X	X				X	X		X			X		23
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53
Fibrous Histiocytoma																						1

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CD Rat Female  
 F3 0 PPM

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	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	4	4	4	3	2	5	5	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	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	8	0	0	0	0	0	0	1	1	1	1	5	5	5	5	6	6	6	6	6	9	9	9	
	8	3	4	5	8	9	0	1	2	3	6	7	8	9	0	1	2	3	4	4	5	5	6	
																							<b>*TOTALS</b>	
Sarcoma																							X	1
Squamous Cell Carcinoma																								1
<b>Musculoskeletal System</b>																								
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53	
Bone, Joint																							1	
Skeletal Muscle																					+		1	
<b>Nervous System</b>																								
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53	
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53	
Granular Cell Tumor Benign																							1	
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53	
Glioma Malignant, Mixed																							1	
<b>Respiratory System</b>																								
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53	
Fibrous Histiocytoma, Metastatic, Skin																							1	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53	
Squamous Cell Carcinoma																							1	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53	
<b>Special Senses System</b>																								
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43	

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 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:32  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female**  
**F3 0 PPM**

	DAY ON TEST																						
	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		
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	4	4	4	3	2	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		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	8	0	0	0	0	0	1	1	1	1	5	5	5	5	6	6	6	6	6	9	9		
	8	3	4	5	8	9	0	1	2	3	6	7	8	9	0	1	2	3	4	4	5		
																					<b>*TOTALS</b>		
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43	
<b>Urinary System</b>																							
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53	
Renal Tubule, Adenoma																						1	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53	
<b>SYSTEMIC LESIONS</b>																							
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	53	

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

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













Experiment Number: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:33  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F3 5PPM TO 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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	2	5	5	5	5	5	5	5	5	5	5	5	5	4	4	5	4	4	5
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	3	3	3	3	3	6	6	6	8	9	9	9	9	9	1	1	1	6	6
	0	4	5	6	7	2	3	4	9	0	1	2	3	4	4	5	6	5	6
	<b>*TOTALS</b>																		

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	40
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	48
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Leiomyosarcoma																		X	1
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cholangiocarcinoma																			1
Leukemia Mononuclear				X															1
Mesentery																			1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Stomach																		+	1
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	49
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**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: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:33  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female  
 F3 5PPM TO 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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	2	5	5	5	5	5	5	5	5	5	5	5	4	4	5	4	5	4
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	3	3	3	3	3	6	6	6	8	9	9	9	9	1	1	1	6	6
	0	4	5	6	7	2	3	4	9	0	1	2	3	4	4	5	6	6
	<b>*TOTALS</b>																	

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenoma																			2
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Pheochromocytoma Benign																			1
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenoma					X														2
Parathyroid Gland	+	+	+	+	M	+	M	+	+	+	+	+	+	+	+	+	+	+	41
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pars Distalis, Adenoma	X	X	X	X	X	X	X	X	X	X		X	X	X	X			X	42
Pars Distalis, Carcinoma																			1
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
C Cell, Adenoma					X														1
C Cell, Carcinoma														X					1

**General Body System**

NONE

**Genital System**

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

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Experiment Number: 99930-93  
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 Lab: NCTR

**CD Rat Female  
 F3 5PPM TO 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		0
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
2	5	5	5	5	5	5	5	6	5	5	5	4	4	5	4	4	5	4	4	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	
3	3	3	3	3	3	6	6	6	8	9	9	9	9	9	1	1	1	1	6	
0	4	5	6	7	2	3	4	9	0	1	2	3	4	4	5	6	5	6	6	
Leiomyoma																			X	1
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
<b>Hematopoietic System</b>																				
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Mononuclear			X																	1
Lymph Node			+		+			+							+					9
Axillary, Leukemia Mononuclear			X																	1
Lumbar, Leukemia Mononuclear			X																	1
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leiomyosarcoma, Metastatic, Intestine Small, Jejunum																		X		1
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Mononuclear			X																	1
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	45
<b>Integumentary System</b>																				
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Adenocarcinoma		X														X				6
Adenocarcinoma, Multiple																				2
Fibroadenoma															X	X				9
Fibroadenoma, Multiple			X		X	X					X		X	X					X	11
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

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

**CD Rat Female  
 F3 5PPM TO 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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	2	5	5	5	5	5	5	5	6	5	5	5	4	4	5	4	5	4
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	3	3	3	3	3	6	6	6	8	9	9	9	9	1	1	1	6	6
	0	4	5	6	7	2	3	4	9	0	1	2	3	4	4	5	6	6
	<b>*TOTALS</b>																	

**Musculoskeletal System**

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

**Nervous System**

Brain, Brain Stem + + + + + + + + + + + + + + + + + + 50

Brain, Cerebellum + + + + + + + + + + + + + + + + + + 50

Brain, Cerebrum + + + + + + + + + + + + + + + + + + 50

**Respiratory System**

Lung + + + + + + + + + + + + + + + + + + 50

Nose + + + + + + + + + + + + + + + + + + 50

Squamous Cell Carcinoma 1

Trachea + + + + + + + + + + + + + + + + + + 50

**Special Senses System**

Eye + + + + + + + + + + + + + + + + + + 41

Harderian Gland + + + + + + + + + + + + + + + + + + 40

Lacrimal Gland 1

**Urinary System**

Kidney + + + + + + + + + + + + + + + + + + 50

Urinary Bladder + + + + + + + + + + + + M + + + + + 47

**SYSTEMIC LESIONS**

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 + ..Tissue examined microscopically  
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 Test Type: SPECIAL STUDY  
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 Species/Strain: Rat/CD

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:34  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female**  
**F3 5PPM TO 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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	2	5	5	5	5	5	5	5	6	5	5	5	4	4	5	4	4	5	4
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
	3	3	3	3	3	6	6	6	8	9	9	9	9	9	1	1	1	6	6
	0	4	5	6	7	2	3	4	9	0	1	2	3	4	4	5	6	5	6
	<b>*TOTALS</b>																		
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear				X															
																			50
																			1

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
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**CD Rat Female  
 F3 100PPM TO 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
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	5	5	4	5	5	5	5	5	5	5	5	5	6	6	6	6	6	4	6
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3	3	4	0	1	1	1	2	2	2	2	2	2	2	5	6	6	6	9
	8	9	0	6	7	8	9	0	1	2	3	6	7	8	9	5	7	8	7
	<b>*TOTALS</b>																		

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	40
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Mononuclear																				1
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Leukemia Mononuclear																				1
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Leukemia Mononuclear																				1
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hepatocellular Adenoma			X																	1
Leukemia Mononuclear																				1
Mesentery																				1
Oral Mucosa																				1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Mononuclear																				1

**Cardiovascular System**

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
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 Time Report Requested: 12:52:35  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F3 100PPM TO 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	
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	5	5	4	5	5	5	5	5	5	5	5	5	6	6	6	6	6	4	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	3	3	4	0	1	1	1	2	2	2	2	2	2	2	5	6	6	9	
	8	9	0	6	7	8	9	0	1	2	2	3	6	7	8	9	5	7	
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Schwannoma Nos																		1	
<b>Endocrine System</b>																			
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma							X											1	
Leukemia Mononuclear																		1	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia Mononuclear																		1	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma								X										2	
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	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia Mononuclear																		1	
<b>General Body System</b>																			
NONE																			
<b>Genital System</b>																			
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																	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: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:36  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F3 100PPM TO CTL**

	DAY ON TEST																			*TOTALS
	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
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	5	5	4	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	4	6
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3	3	4	0	1	1	1	2	2	2	2	2	2	2	2	5	6	6	9	9
	8	9	0	6	7	8	9	0	1	2	3	6	7	8	9	5	7	8	8	7
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear																				
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear																				
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+
<b>Integumentary System</b>																				
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenocarcinoma	X							X	X	X							X			
Adenocarcinoma, Multiple				X																
Adenoma																				
Fibroadenoma		X	X		X					X			X							X
Fibroadenoma, Multiple				X				X	X		X	X		X	X	X			X	
Leukemia Mononuclear																				
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear																				
<b>Musculoskeletal System</b>																				
Bone																				
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<b>Nervous System</b>																				
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
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Experiment Number: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**  
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 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
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 First Dose M/F: NA / NA  
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**CD Rat Female  
 F3 100PPM TO CTL**

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		
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
	5	5	4	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	4	6	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	3	3	4	0	1	1	1	2	2	2	2	2	2	2	2	5	6	6	9	9	
	8	9	0	6	7	8	9	0	1	2	3	6	7	8	9	5	7	8	7	7	
																				*TOTALS	
Leukemia Mononuclear																				1	
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>Respiratory System</b>																					
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Mononuclear																				1	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Mononuclear																				1	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Mononuclear																				1	
<b>Special Senses System</b>																					
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	40
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	40
<b>Urinary System</b>																					
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Mononuclear																				1	
Renal Tubule, Adenoma																				X	
Urinary Bladder	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Leukemia Mononuclear																				1	
<b>SYSTEMIC LESIONS</b>																					
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Mononuclear																				1	

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Experiment Number: 99930-93  
 Test Type: SPECIAL STUDY  
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 Species/Strain: Rat/CD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
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Date Report Requested: 10/17/2014  
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CD Rat Female F3 500PPM TO 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			
	3	4	4	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			
ANIMAL ID	4	4	5	5	7	7	9	9	1	1	0	0	5	8	7	9	6	9	6	7	7	6	2	6	1	1	1	1	1			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	1	1	1	1	2	2	2	2	3	3	3	4	4	4	4	4	4	4	6	8	9	9	9	9	9	9	9	9			
	6	4	4	8	8	0	2	6	7	4	7	7	1	1	1	1	2	5	5	2	6	2	3	4	6	6	6	6	2			
	7	1	2	1	3	5	3	0	6	0	1	5	1	4	5	6	2	5	5	5	1	7	9	1	5	6	7	8	9			
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+			
Pheochromocytoma Benign									X																							
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+		
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		X	X	X		X	X		X		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+		
C Cell, Adenoma																												X	X			
<b>General Body System</b>																																
NONE																																
<b>Genital System</b>																																
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	M	+	+	+	+	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	
Yolk Sac Carcinoma																																
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	
Polyp Stromal																																
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Hematopoietic System</b>																																
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	

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 + ..Tissue examined microscopically  
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Experiment Number: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

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

**CD Rat Female  
 F3 500PPM TO 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	
	5	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	1	9	4	4	4	4	4	4	4	5	5	5	5	5	3	3	2	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	
	2	2	4	4	4	6	9	9	9	0	2	2	6	7	7	7	7	9	
	8	9	1	2	3	5	5	6	7	7	4	5	9	0	1	2	3	4	8

**\*TOTALS**

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	37
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Small, Ileum	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine Small, Jejunum	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Oral Mucosa																			1
Sarcoma																			1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49

**Cardiovascular System**

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

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Adenoma															X				1

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**CD Rat Female  
 F3 500PPM TO 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
	5	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	1	9	4	4	4	4	4	4	4	5	5	5	5	5	5	3	3	2	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	2	2	4	4	4	6	9	9	9	0	2	2	6	7	7	7	7	7	9
	8	9	1	2	3	5	5	6	7	7	4	5	9	0	1	2	3	4	8
	<b>*TOTALS</b>																		
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pheochromocytoma Benign													X						
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma																		X	
Parathyroid Gland	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Adenoma	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
C Cell, Adenoma																X			
<b>General Body System</b>																			
NONE																			
<b>Genital System</b>																			
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Yolk Sac Carcinoma																			
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Polyp Stromal																	X		
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+
<b>Hematopoietic System</b>																			
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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**CD Rat Female  
 F3 500PPM TO 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
	5	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	1	9	4	4	4	4	4	4	4	5	5	5	5	5	3	3	2	3
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	2	2	4	4	4	6	9	9	9	0	2	2	6	7	7	7	7	9
	8	9	1	2	3	5	5	6	7	4	5	9	0	1	2	3	4	8
	<b>*TOTALS</b>																	
Lymph Node							+	+	+			+			M	+	+	12
Lumbar, Yolk Sac Carcinoma, Metastatic, Ovary																		1
Renal, Yolk Sac Carcinoma, Metastatic, Ovary																		1
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Thymoma Malignant																		1
<b>Integumentary System</b>																		
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenocarcinoma										X					X		X	10
Adenocarcinoma, Multiple										X				X				2
Adenoma																		1
Fibroadenoma				X	X										X		X	19
Fibroadenoma, Multiple	X						X	X		X	X					X		9
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Keratoacanthoma																		1
Sarcoma																		1
Squamous Cell Carcinoma																		1

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 + ..Tissue examined microscopically  
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 I ..Insufficient tissue

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**CD Rat Female  
 F3 500PPM TO 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	
	5	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	1	9	4	4	4	4	4	4	4	5	5	5	5	5	3	3	2	3	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	
	2	2	4	4	4	6	9	9	9	0	2	2	6	7	7	7	7	9	
	8	9	1	2	3	5	5	6	7	7	4	5	9	0	1	2	3	4	<b>*TOTALS</b>
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
<b>Nervous System</b>																			
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Carcinoma, Metastatic, Pituitary Gland																			1
Granular Cell Tumor Benign																			1
<b>Respiratory System</b>																			
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Squamous Cell Carcinoma, Metastatic, Skin																			1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Squamous Cell Carcinoma													X	X					3
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
<b>Special Senses System</b>																			
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	38
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	38
<b>Urinary System</b>																			
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	47

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

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



Experiment Number: 99930-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014  
 Time Report Requested: 12:52:38  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F3 500PPM TO 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
	5	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	1	9	4	4	4	4	4	4	4	5	5	5	5	5	5	3	3	2	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	2	2	4	4	4	6	9	9	9	0	2	2	6	7	7	7	7	7	9
	8	9	1	2	3	5	5	6	7	7	4	5	9	0	1	2	3	4	8
	<b>*TOTALS</b>																		
	50																		

Multiple Organ

+ +

**\*\* 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