

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

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:25:57

First Dose M/F: NA / NA

Lab: NCTR

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

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CD Rat MALE	F1	0PPM	F1	5PPM	F1	100PPM	F1	500PPM	F1	5PPM/CTL	F1	100PPM/CTL
Disposition Summary												
Animals Initially In Study		54		50		50		50		50		50
Early Deaths												
Moribund		6		5		6		12		7		10
Natural Death		9		3				6		7		5
Survivors												
Moribund		2				1				2		1
Natural Death		1		1				1				2
Terminal Sacrifice		36		41		43		31		34		32
Animals Examined Microscopically		54		50		50		50		50		50

ALIMENTARY SYSTEM

Esophagus	(53)		(50)		(50)		(50)		(50)		(47)
Intestine Large, Cecum	(44)		(46)		(50)		(46)		(45)		(42)
Lymphoma Malignant			1 (2%)		2 (4%)						
Serosa, Carcinoma, Metastatic, Prostate							1 (2%)				
Intestine Large, Colon	(46)		(46)		(50)		(46)		(45)		(43)
Adenoma			1 (2%)								
Lymphoma Malignant			2 (4%)								
Serosa, Carcinoma, Metastatic, Prostate							1 (2%)				
Intestine Large, Rectum	(37)		(42)		(43)		(34)		(37)		(33)
Intestine Small, Duodenum	(46)		(45)		(50)		(46)		(45)		(43)
Lymphoma Malignant											
Sarcoma											
Serosa, Carcinoma, Metastatic, Prostate							1 (2%)				
Intestine Small, Ileum	(43)		(47)		(50)		(44)		(44)		(42)
Adenocarcinoma			1 (2%)								1 (2%)
Lymphoma Malignant			1 (2%)								

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Intestine Small, Jejunum		(44)		(45)		(50)		(43)		(42)		(42)
Adenocarcinoma	1	(2%)	1	(2%)								
Lymphoma Malignant					1	(2%)						
Liver		(51)		(48)		(50)		(48)		(49)		(47)
Carcinoma, Metastatic, Prostate							1	(2%)				
Cholangiocarcinoma												1 (2%)
Hepatocellular Adenoma	1	(2%)	2	(4%)	2	(4%)			1	(2%)		1 (2%)
Hepatocellular Carcinoma			1	(2%)								
Leukemia Granulocytic	1	(2%)										
Leukemia Mononuclear										1	(2%)	
Lymphoma Malignant	2	(4%)	3	(6%)	3	(6%)	2	(4%)				2 (4%)
Mesentery		(1)		(1)		(0)		(1)		(1)		(1)
Lymphoma Malignant							1	(100%)				
Oral Mucosa		(0)		(0)		(0)		(1)		(0)		(0)
Osteosarcoma							1	(100%)				
Pancreas		(50)		(49)		(50)		(49)		(49)		(46)
Acinar Cell, Adenoma												
Carcinoma, Metastatic, Prostate								1	(2%)			
Lymphoma Malignant	2	(4%)	2	(4%)	2	(4%)	2	(4%)				2 (4%)
Salivary Glands		(49)		(49)		(50)		(47)		(49)		(46)
Lymphoma Malignant	2	(4%)	1	(2%)	1	(2%)	1	(2%)				
Neurofibrosarcoma	1	(2%)										
Stomach, Forestomach		(45)		(46)		(50)		(46)		(47)		(45)
Stomach, Glandular		(45)		(47)		(50)		(44)		(46)		(44)
Lymphoma Malignant					1	(2%)						
CARDIOVASCULAR SYSTEM												
Blood Vessel		(53)		(50)		(50)		(50)		(50)		(48)
Adventitia, Lymphoma Malignant												1 (2%)

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Heart	(52)		(50)		(50)		(50)		(48)		(48)	
Leukemia Granulocytic	1 (2%)											
Leukemia Mononuclear									1 (2%)			
Lymphoma Malignant	2 (4%)		1 (2%)		1 (2%)							
ENDOCRINE SYSTEM												
Adrenal Cortex	(49)		(47)		(50)		(48)		(47)		(46)	
Adenoma	1 (2%)		1 (2%)				1 (2%)		2 (4%)		1 (2%)	
Leukemia Mononuclear									1 (2%)			
Lymphoma Malignant	2 (4%)		1 (2%)		1 (2%)		1 (2%)					
Adrenal Medulla	(47)		(49)		(50)		(49)		(47)		(46)	
Bilateral, Pheochromocytoma Benign	1 (2%)								1 (2%)			
Leukemia Mononuclear									1 (2%)			
Lymphoma Malignant	1 (2%)						1 (2%)					
Pheochromocytoma Benign	1 (2%)		1 (2%)		2 (4%)		7 (14%)		2 (4%)			
Pheochromocytoma Complex	1 (2%)											
Pheochromocytoma Malignant			1 (2%)						1 (2%)		1 (2%)	
Islets, Pancreatic	(49)		(49)		(50)		(49)		(49)		(46)	
Adenoma	1 (2%)		3 (6%)		1 (2%)		5 (10%)				1 (2%)	
Carcinoma							1 (2%)					
Carcinoma, Metastatic, Prostate							1 (2%)					
Lymphoma Malignant	2 (4%)		1 (2%)		1 (2%)		2 (4%)				1 (2%)	
Parathyroid Gland	(47)		(47)		(47)		(47)		(48)		(47)	
Adenoma	1 (2%)											
Lymphoma Malignant			1 (2%)									
Pituitary Gland	(49)		(46)		(50)		(49)		(49)		(48)	
Leukemia Mononuclear									1 (2%)			
Lymphoma Malignant	2 (4%)		2 (4%)		1 (2%)		2 (4%)				1 (2%)	
Pars Distalis, Adenoma	22 (45%)		14 (30%)		22 (44%)		21 (43%)		18 (37%)		13 (27%)	

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Pars Distalis, Adenoma, Multiple	1	(2%)						1	(2%)				
Thyroid Gland	(49)		(47)		(50)		(46)		(46)		(44)		
C Cell, Adenoma	1	(2%)	2	(4%)	1	(2%)	1	(2%)	1	(2%)			
C Cell, Carcinoma			1	(2%)			1	(2%)			1	(2%)	
Follicular Cel, Adenoma									1	(2%)			
Lymphoma Malignant	1	(2%)			1	(2%)							
GENERAL BODY SYSTEM													
Tissue NOS		(0)		(0)		(1)		(1)		(0)		(0)	
Abdominal, Carcinoma, Metastatic, Prostate								1	(100%)				
Chondrosarcoma						1	(100%)						
GENITAL SYSTEM													
Coagulating Gland		(47)		(49)		(50)		(45)		(45)		(45)	
Adenocarcinoma, Metastatic, Prostate	1	(2%)									1	(2%)	
Adventitia, Lymphoma Malignant						1	(2%)						
Carcinoma, Metastatic, Prostate								1	(2%)				
Lymphoma Malignant				1	(2%)								
Epididymis		(51)		(48)		(50)		(49)		(50)		(47)	
Carcinoma, Metastatic, Prostate								1	(2%)				
Lymphoma Malignant				1	(2%)		1	(2%)					
Mesothelioma Malignant							1	(2%)					
Penis		(0)		(1)		(0)		(0)		(1)		(0)	
Preputial Gland		(49)		(48)		(49)		(49)		(50)		(48)	
Adventitia, Squamous Cell Carcinoma												1	(2%)
Lymphoma Malignant				2	(4%)		1	(2%)				1	(2%)
Sarcoma										1	(2%)		
Squamous Cell Carcinoma	1	(2%)		3	(6%)		1	(2%)		2	(4%)	1	(2%)
Prostate		(8)		(9)		(2)		(2)		(8)		(6)	

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Prostate, Dorsal Lobe	(48)		(49)		(50)		(49)		(49)		(50)	
Adenocarcinoma	2 (4%)										1 (2%)	
Carcinoma							1 (2%)					
Carcinoma, Metastatic, Urinary Bladder												
Lymphoma Malignant	1 (2%)		2 (4%)		2 (4%)		1 (2%)				1 (2%)	
Prostate, Ventral Lobe	(48)		(49)		(50)		(48)		(49)		(48)	
Adenocarcinoma	1 (2%)										1 (2%)	
Adenoma									1 (2%)			
Carcinoma							1 (2%)					
Carcinoma, Metastatic, Urinary Bladder												
Lymphoma Malignant			2 (4%)		2 (4%)		1 (2%)				1 (2%)	
Rete Testes	(44)		(47)		(47)		(44)		(50)		(46)	
Seminal Vesicle	(47)		(48)		(50)		(45)		(43)		(45)	
Adenocarcinoma, Metastatic, Prostate	2 (4%)										1 (2%)	
Carcinoma, Metastatic, Prostate							1 (2%)					
Lymphoma Malignant												
Testes	(50)		(50)		(50)		(49)		(49)		(47)	
Capsule, Carcinoma, Metastatic, Prostate							1 (2%)					
Mesothelioma Benign	1 (2%)											
Mesothelioma Malignant					1 (2%)							
Seminoma Benign							1 (2%)					
HEMATOPOIETIC SYSTEM												
Bone Marrow	(49)		(49)		(50)		(48)		(48)		(47)	
Lymphoma Malignant	2 (4%)		3 (6%)		3 (6%)		1 (2%)				2 (4%)	
Lymph Node	(15)		(13)		(16)		(8)		(14)		(14)	
Axillary, Lymphoma Malignant			1 (8%)				1 (13%)					
Deep Cervical, Leukemia Granulocytic	1 (7%)											
Deep Cervical, Lymphoma Malignant							1 (13%)					

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Inguinal, Lymphoma Malignant	1	(7%)	1	(8%)	1	(6%)							
Lumbar, Leukemia Granulocytic	1	(7%)											
Lumbar, Lymphoma Malignant	1	(7%)	2	(15%)				1	(13%)				
Mediastinal, Lymphoma Malignant					2	(13%)		1	(13%)				
Pancreatic, Lymphoma Malignant					1	(6%)							
Popliteal, Lymphoma Malignant								1	(13%)				
Renal, Leukemia Granulocytic	1	(7%)											
Renal, Lymphoma Malignant	1	(7%)											
Thoracic, Lymphoma Malignant	1	(7%)			2	(13%)							
Lymph Node, Mandibular		(52)		(50)		(49)		(46)		(49)		(45)	
Fibrosarcoma, Metastatic, Skin										1	(2%)		
Leukemia Granulocytic	1	(2%)											
Leukemia Mononuclear										1	(2%)		
Lymphoma Malignant	2	(4%)	3	(6%)	2	(4%)	2	(4%)				2	(4%)
Lymph Node, Mesenteric		(48)		(50)		(50)		(46)		(47)		(45)	
Leukemia Granulocytic	1	(2%)											
Leukemia Mononuclear										1	(2%)		
Lymphoma Malignant	2	(4%)	3	(6%)	2	(4%)	2	(4%)				2	(4%)
Spleen		(52)		(48)		(50)		(48)		(50)		(47)	
Hemangiosarcoma												1	(2%)
Leukemia Granulocytic	1	(2%)											
Leukemia Mononuclear										1	(2%)		
Lymphoma Malignant	2	(4%)	3	(6%)	3	(6%)	2	(4%)				2	(4%)
Sarcoma								1	(2%)				
Thymus		(42)		(44)		(45)		(42)		(47)		(40)	
Leukemia Granulocytic	1	(2%)											
Leukemia Mononuclear										1	(2%)		
Lymphoma Malignant	2	(5%)	2	(5%)	2	(4%)	2	(5%)		1	(2%)	2	(5%)

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INTEGUMENTARY SYSTEM												
Mammary Gland		(41)		(43)		(40)		(42)		(42)		(34)
Adenocarcinoma						1 (3%)						
Fibroadenoma				1 (2%)				2 (5%)				
Lymphoma Malignant												
Skin		(51)		(49)		(50)		(50)		(50)		(50)
Basal Cell Adenoma				1 (2%)								
Fibroma		1 (2%)		1 (2%)				1 (2%)		2 (4%)		
Fibrosarcoma						1 (2%)				1 (2%)		
Keratoacanthoma				1 (2%)				1 (2%)				1 (2%)
Lipoma		1 (2%)						2 (4%)		1 (2%)		1 (2%)
Lymphoma Malignant						1 (2%)						
Sarcoma		1 (2%)		1 (2%)		1 (2%)				1 (2%)		1 (2%)
Schwannoma Benign												1 (2%)
Schwannoma Malignant										1 (2%)		
Sebaceous Gl, Carcinoma										1 (2%)		
Squamous Cell Carcinoma										1 (2%)		1 (2%)
Squamous Cell Papilloma				1 (2%)								
MUSCULOSKELETAL SYSTEM												
Bone, Cranium		(0)		(0)		(0)		(0)		(0)		(1)
Osteoma												1 (100%)
Bone, Femur		(53)		(50)		(50)		(50)		(49)		(50)
Skeletal Muscle		(0)		(0)		(0)		(1)		(0)		(0)
Carcinoma, Metastatic, Prostate								1 (100%)				
NERVOUS SYSTEM												
Brain, Brain Stem		(50)		(48)		(50)		(48)		(50)		(48)
Astrocytoma Malignant												

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Glioma Malignant												
Lymphoma Malignant			1 (2%)		1 (2%)							1 (2%)
Brain, Cerebellum	(50)		(48)		(50)		(47)		(49)		(48)	
Astrocytoma Malignant												1 (2%)
Granular Cell Tumor Benign									1 (2%)			
Granular Cell Tumor Malignant	1 (2%)											1 (2%)
Lymphoma Malignant					1 (2%)							
Meninges, Lymphoma Malignant												1 (2%)
Brain, Cerebrum	(50)		(48)		(50)		(48)		(50)		(48)	
Astrocytoma Malignant												1 (2%)
Glioma Malignant												
Granular Cell Tumor Benign					1 (2%)							1 (2%)
Granular Cell Tumor Malignant			1 (2%)				1 (2%)					1 (2%)
Leukemia Mononuclear									1 (2%)			
Lymphoma Malignant			2 (4%)		1 (2%)							
Meninges, Lymphoma Malignant												1 (2%)
RESPIRATORY SYSTEM												
Lung	(49)		(47)		(50)		(47)		(48)		(44)	
Alveolar Epith, Adenoma			1 (2%)									
Alveolar/Bronchiolar Carcinoma	1 (2%)											
Carcinoma, Metastatic, Prostate								1 (2%)				
Chondrosarcoma, Metastatic, Uncertain Primary Site					1 (2%)							
Fibrosarcoma, Metastatic, Skin					1 (2%)					1 (2%)		
Leukemia Granulocytic	1 (2%)											
Leukemia Mononuclear										1 (2%)		
Lymphoma Malignant	2 (4%)		2 (4%)		3 (6%)		2 (4%)		1 (2%)		2 (5%)	
Squamous Cell Carcinoma, Metastatic, Preputial Gland									1 (2%)			

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Squamous Cell Carcinoma, Metastatic, Preputial Gland										1 (2%)		
Nose	(48)		(48)		(50)		(48)		(47)		(45)	
Lymphoma Malignant	2 (4%)		3 (6%)		2 (4%)		1 (2%)				2 (4%)	
Squamous Cell Carcinoma							2 (4%)				1 (2%)	
Trachea	(47)		(47)		(50)		(46)		(47)		(46)	
Lymphoma Malignant	1 (2%)		1 (2%)		1 (2%)							
SPECIAL SENSES SYSTEM												
Ear	(0)		(0)		(0)		(0)		(0)		(0)	
Neural Crest Tumor												
Eye	(37)		(42)		(43)		(35)		(37)		(33)	
Adventitia, Squamous Cell Carcinoma							1 (3%)					
Lymphoma Malignant											1 (3%)	
Harderian Gland	(39)		(42)		(43)		(37)		(39)		(33)	
Adenoma	1 (3%)											
Lymphoma Malignant											1 (3%)	
Lacrimal Gland	(10)		(9)		(10)		(14)		(14)		(12)	
Zymbal's Gland	(0)		(1)		(0)		(1)		(0)		(1)	
Carcinoma											1 (100%)	
Squamous Cell Carcinoma			1 (100%)				1 (100%)					
URINARY SYSTEM												
Kidney	(48)		(48)		(50)		(48)		(48)		(46)	
Adenoma, Tubular	1 (2%)											
Fibrosarcoma, Metastatic, Skin					1 (2%)							
Leukemia Granulocytic	1 (2%)											
Leukemia Mononuclear									1 (2%)			
Lymphoma Malignant	2 (4%)		2 (4%)		2 (4%)		2 (4%)				2 (4%)	
Urethra	(0)		(0)		(1)		(1)		(1)		(1)	

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

CD Rat MALE	F1 0PPM	F1 5PPM	F1 100PPM	F1 500PPM	F1 5PPM/CTL	F1 100PPM/CTL
Urinary Bladder	(47)	(48)	(50)	(46)	(48)	(46)
Lymphoma Malignant		1 (2%)				
Serosa, Carcinoma, Metastatic, Prostate				1 (2%)		
Transit Epithe, Carcinoma						
SYSTEMIC LESIONS						
Multiple Organ	*(54)	*(50)	*(50)	*(50)	*(50)	*(50)
Leukemia Granulocytic	1 (2%)					
Leukemia Mononuclear					1 (2%)	
Lymphoma Malignant	2 (4%)	3 (6%)	3 (6%)	2 (4%)	1 (2%)	2 (4%)
Mesothelioma Benign	1 (2%)					
Mesothelioma Malignant			1 (2%)			

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

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

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 17:25:58
First Dose M/F: NA / NA
Lab: NCTR

CD Rat MALE	F1 500PPM/CTL
Disposition Summary	
Animals Initially In Study	50
Early Deaths	
Moribund	5
Natural Death	7
Survivors	
Moribund	
Natural Death	
Terminal Sacrifice	38
Animals Examined Microscopically	50

ALIMENTARY SYSTEM

Esophagus	(49)
Intestine Large, Cecum	(44)
Lymphoma Malignant	1 (2%)
Serosa, Carcinoma, Metastatic, Prostate	
Intestine Large, Colon	(46)
Adenoma	1 (2%)
Lymphoma Malignant	1 (2%)
Serosa, Carcinoma, Metastatic, Prostate	
Intestine Large, Rectum	(39)
Intestine Small, Duodenum	(45)
Lymphoma Malignant	1 (2%)
Sarcoma	1 (2%)
Serosa, Carcinoma, Metastatic, Prostate	
Intestine Small, Ileum	(43)
Adenocarcinoma	
Lymphoma Malignant	1 (2%)

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 99930-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:25:58

First Dose M/F: NA / NA

Lab: NCTR

CD Rat MALE	F1 500PPM/CTL
Intestine Small, Jejunum	(42)
Adenocarcinoma	
Lymphoma Malignant	1 (2%)
Liver	(48)
Carcinoma, Metastatic, Prostate	
Cholangiocarcinoma	
Hepatocellular Adenoma	1 (2%)
Hepatocellular Carcinoma	
Leukemia Granulocytic	
Leukemia Mononuclear	
Lymphoma Malignant	1 (2%)
Mesentery	(1)
Lymphoma Malignant	
Oral Mucosa	(0)
Osteosarcoma	
Pancreas	(48)
Acinar Cell, Adenoma	1 (2%)
Carcinoma, Metastatic, Prostate	
Lymphoma Malignant	1 (2%)
Salivary Glands	(50)
Lymphoma Malignant	1 (2%)
Neurofibrosarcoma	
Stomach, Forestomach	(49)
Stomach, Glandular	(45)
Lymphoma Malignant	1 (2%)
<hr/>	
CARDIOVASCULAR SYSTEM	
Blood Vessel	(49)
Adventitia, Lymphoma Malignant	

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 99930-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:25:58

First Dose M/F: NA / NA

Lab: NCTR

CD Rat MALE	F1 500PPM/CTL
Heart	(50)
Leukemia Granulocytic	
Leukemia Mononuclear	
Lymphoma Malignant	1 (2%)
ENDOCRINE SYSTEM	
Adrenal Cortex	(46)
Adenoma	1 (2%)
Leukemia Mononuclear	
Lymphoma Malignant	
Adrenal Medulla	(45)
Bilateral, Pheochromocytoma Benign	
Leukemia Mononuclear	
Lymphoma Malignant	
Pheochromocytoma Benign	4 (9%)
Pheochromocytoma Complex	1 (2%)
Pheochromocytoma Malignant	2 (4%)
Islets, Pancreatic	(48)
Adenoma	3 (6%)
Carcinoma	
Carcinoma, Metastatic, Prostate	
Lymphoma Malignant	1 (2%)
Parathyroid Gland	(46)
Adenoma	1 (2%)
Lymphoma Malignant	1 (2%)
Pituitary Gland	(48)
Leukemia Mononuclear	
Lymphoma Malignant	1 (2%)
Pars Distalis, Adenoma	15 (31%)

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 99930-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:25:58

First Dose M/F: NA / NA

Lab: NCTR

CD Rat MALE	F1 500PPM/CTL
Pars Distalis, Adenoma, Multiple	1 (2%)
Thyroid Gland	(48)
C Cell, Adenoma	1 (2%)
C Cell, Carcinoma	
Follicular Cel, Adenoma	1 (2%)
Lymphoma Malignant	1 (2%)
<hr/>	
GENERAL BODY SYSTEM	
Tissue NOS	(0)
Abdominal, Carcinoma, Metastatic, Prostate	
Chondrosarcoma	
<hr/>	
GENITAL SYSTEM	
Coagulating Gland	(47)
Adenocarcinoma, Metastatic, Prostate	
Adventitia, Lymphoma Malignant	
Carcinoma, Metastatic, Prostate	
Lymphoma Malignant	1 (2%)
Epididymis	(49)
Carcinoma, Metastatic, Prostate	
Lymphoma Malignant	1 (2%)
Mesothelioma Malignant	
Penis	(0)
Preputial Gland	(49)
Adventitia, Squamous Cell Carcinoma	
Lymphoma Malignant	1 (2%)
Sarcoma	
Squamous Cell Carcinoma	1 (2%)
Prostate	(3)

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 99930-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:25:58

First Dose M/F: NA / NA

Lab: NCTR

CD Rat MALE	F1 500PPM/CTL
Prostate, Dorsal Lobe	(49)
Adenocarcinoma	
Carcinoma	
Carcinoma, Metastatic, Urinary Bladder	1 (2%)
Lymphoma Malignant	1 (2%)
Prostate, Ventral Lobe	(48)
Adenocarcinoma	
Adenoma	
Carcinoma	1 (2%)
Carcinoma, Metastatic, Urinary Bladder	1 (2%)
Lymphoma Malignant	1 (2%)
Rete Testes	(49)
Seminal Vesicle	(47)
Adenocarcinoma, Metastatic, Prostate	
Carcinoma, Metastatic, Prostate	
Lymphoma Malignant	1 (2%)
Testes	(50)
Capsule, Carcinoma, Metastatic, Prostate	
Mesothelioma Benign	
Mesothelioma Malignant	
Seminoma Benign	1 (2%)

HEMATOPOIETIC SYSTEM

Bone Marrow	(49)
Lymphoma Malignant	1 (2%)
Lymph Node	(9)
Axillary, Lymphoma Malignant	
Deep Cervical, Leukemia Granulocytic	
Deep Cervical, Lymphoma Malignant	1 (11%)

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 99930-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:25:58

First Dose M/F: NA / NA

Lab: NCTR

CD Rat MALE	F1 500PPM/CTL
Inguinal, Lymphoma Malignant	
Lumbar, Leukemia Granulocytic	
Lumbar, Lymphoma Malignant	
Mediastinal, Lymphoma Malignant	
Pancreatic, Lymphoma Malignant	
Popliteal, Lymphoma Malignant	
Renal, Leukemia Granulocytic	
Renal, Lymphoma Malignant	1 (11%)
Thoracic, Lymphoma Malignant	1 (11%)
Lymph Node, Mandibular	(48)
Fibrosarcoma, Metastatic, Skin	
Leukemia Granulocytic	
Leukemia Mononuclear	
Lymphoma Malignant	1 (2%)
Lymph Node, Mesenteric	(46)
Leukemia Granulocytic	
Leukemia Mononuclear	
Lymphoma Malignant	1 (2%)
Spleen	(49)
Hemangiosarcoma	
Leukemia Granulocytic	
Leukemia Mononuclear	
Lymphoma Malignant	1 (2%)
Sarcoma	
Thymus	(45)
Leukemia Granulocytic	
Leukemia Mononuclear	
Lymphoma Malignant	1 (2%)

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

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

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 17:25:58
First Dose M/F: NA / NA
Lab: NCTR

CD Rat MALE	F1 500PPM/CTL
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INTEGUMENTARY SYSTEM	
Mammary Gland	(45)
Adenocarcinoma	
Fibroadenoma	
Lymphoma Malignant	1 (2%)
Skin	(50)
Basal Cell Adenoma	
Fibroma	2 (4%)
Fibrosarcoma	
Keratoacanthoma	
Lipoma	
Lymphoma Malignant	
Sarcoma	1 (2%)
Schwannoma Benign	
Schwannoma Malignant	
Sebaceous GI, Carcinoma	
Squamous Cell Carcinoma	
Squamous Cell Papilloma	
<hr/>	
MUSCULOSKELETAL SYSTEM	
Bone, Cranium	(0)
Osteoma	
Bone, Femur	(50)
Skeletal Muscle	(2)
Carcinoma, Metastatic, Prostate	
<hr/>	
NERVOUS SYSTEM	
Brain, Brain Stem	(48)
Astrocytoma Malignant	1 (2%)

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 99930-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:25:58

First Dose M/F: NA / NA

Lab: NCTR

CD Rat MALE	F1 500PPM/CTL
Glioma Malignant	1 (2%)
Lymphoma Malignant	1 (2%)
Brain, Cerebellum	(48)
Astrocytoma Malignant	
Granular Cell Tumor Benign	
Granular Cell Tumor Malignant	
Lymphoma Malignant	1 (2%)
Meninges, Lymphoma Malignant	
Brain, Cerebrum	(48)
Astrocytoma Malignant	1 (2%)
Glioma Malignant	1 (2%)
Granular Cell Tumor Benign	
Granular Cell Tumor Malignant	
Leukemia Mononuclear	
Lymphoma Malignant	1 (2%)
Meninges, Lymphoma Malignant	
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RESPIRATORY SYSTEM	
Lung	(49)
Alveolar Epith, Adenoma	
Alveolar/Bronchiolar Carcinoma	
Carcinoma, Metastatic, Prostate	
Chondrosarcoma, Metastatic, Uncertain Primary Site	
Fibrosarcoma, Metastatic, Skin	
Leukemia Granulocytic	
Leukemia Mononuclear	
Lymphoma Malignant	1 (2%)
Squamous Cell Carcinoma, Metastatic, Preputial Gland	

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 99930-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:25:58

First Dose M/F: NA / NA

Lab: NCTR

CD Rat MALE	F1 500PPM/CTL
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Squamous Cell Carcinoma, Metastatic, Preputial Gland	
Nose	(48)
Lymphoma Malignant	1 (2%)
Squamous Cell Carcinoma	
Trachea	(48)
Lymphoma Malignant	1 (2%)
<hr/>	
SPECIAL SENSES SYSTEM	
Ear	(1)
Neural Crest Tumor	1 (100%)
Eye	(40)
Adventitia, Squamous Cell Carcinoma	
Lymphoma Malignant	
Harderian Gland	(41)
Adenoma	
Lymphoma Malignant	
Lacrimal Gland	(5)
Zymbal's Gland	(0)
Carcinoma	
Squamous Cell Carcinoma	
<hr/>	
URINARY SYSTEM	
Kidney	(49)
Adenoma, Tubular	
Fibrosarcoma, Metastatic, Skin	
Leukemia Granulocytic	
Leukemia Mononuclear	
Lymphoma Malignant	1 (2%)
Urethra	(2)

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 99930-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:25:59

First Dose M/F: NA / NA

Lab: NCTR

CD Rat MALE	F1 500PPM/CTL
Urinary Bladder	(47)
Lymphoma Malignant	1 (2%)
Serosa, Carcinoma, Metastatic, Prostate	
Transit Epithe, Carcinoma	1 (2%)
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SYSTEMIC LESIONS	
Multiple Organ	*(50)
Leukemia Granulocytic	
Leukemia Mononuclear	
Lymphoma Malignant	1 (2%)
Mesothelioma Benign	
Mesothelioma Malignant	

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

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

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
 Test Compound: Endocrine disruptor (Genistein)
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014
 Time Report Requested: 17:25:59
 First Dose M/F: NA / NA
 Lab: NCTR

CD Rat MALE	F1	0PPM	F1	5PPM	F1	100PPM	F1	500PPM	F1	5PPM/CTL	F1	100PPM/CTL
Tumor Summary for MALE												
Total Animals with Primary Neoplasms (b)	36		32		30		38		33		30	
Total Primary Neoplasms	48		44		38		58		42		40	
Total Animals with Benign Neoplasms	27		26		26		31		27		16	
Total Benign Neoplasms	34		30		29		43		31		21	
Total Animals with Malignant Neoplasms	12		12		9		11		10		16	
Total Malignant Neoplasms	13		14		9		15		11		19	
Total Animals with Metastatic Neoplasms	2				2		1		2		1	
Total Metastatic Neoplasms	3				3		14		3		2	
Total Animals with Malignant Neoplasms Uncertain Primary Site					1							
Total Animals with Neoplasms Uncertain - Benign or Malignant												
Total Uncertain Neoplasms												

a - Number of animals examined microscopically at site and number of animals with lesion
 b - Primary tumors: all tumors except metastatic tumors
 * Number of animals with any tissue examined microscopically

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

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 17:25:59
First Dose M/F: NA / NA
Lab: NCTR

CD Rat MALE	F1 500PPM/CTL
Tumor Summary for MALE	
Total Animals with Primary Neoplasms (b)	33
Total Primary Neoplasms	47
Total Animals with Benign Neoplasms	28
Total Benign Neoplasms	33
Total Animals with Malignant Neoplasms	10
Total Malignant Neoplasms	13
Total Animals with Metastatic Neoplasms	1
Total Metastatic Neoplasms	2
Total Animals with Malignant Neoplasms Uncertain Primary Site	
Total Animals with Neoplasms Uncertain - Benign or Malignant	1
Total Uncertain Neoplasms	1

END OF MALE DATA

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 99930-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:25:59

First Dose M/F: NA / NA

Lab: NCTR

CD Rat FEMALE	F1	0PPM	F1	5PPM	F1	100PPM	F1	500PPM	F1	5PPM/CTL	F1	100PPM/CTL
Disposition Summary												
Animals Initially In Study		54		50		50		49		50		50
Early Deaths												
Moribund		24		14		18		20		12		14
Natural Death		3		7		6		6		6		3
Survivors												
Moribund		1				3		1				
Natural Death				1		1		1		1		1
Terminal Sacrifice		26		28		22		21		31		32
Animals Examined Microscopically		54		50		50		49		50		50

ALIMENTARY SYSTEM

Esophagus	(54)		(50)		(49)		(49)		(50)		(50)
Intestine Large	(0)		(0)		(0)		(0)		(0)		(1)
Intestine Large, Cecum	(54)		(50)		(50)		(49)		(49)		(50)
Leukemia Granulocytic	1 (2%)										
Intestine Large, Colon	(54)		(50)		(50)		(49)		(50)		(49)
Leiomyosarcoma											
Leukemia Granulocytic	1 (2%)										
Leukemia Mononuclear								1 (2%)			
Intestine Large, Rectum	(30)		(32)		(30)		(24)		(33)		(36)
Intestine Small	(0)		(0)		(0)		(0)		(0)		(1)
Intestine Small, Duodenum	(53)		(50)		(48)		(48)		(50)		(50)
Leukemia Granulocytic	1 (2%)										
Intestine Small, Ileum	(53)		(49)		(47)		(45)		(49)		(48)
Leukemia Granulocytic	1 (2%)										
Intestine Small, Jejunum	(54)		(49)		(47)		(45)		(49)		(48)
Adenoma			1 (2%)								

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 99930-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:25:59

First Dose M/F: NA / NA

Lab: NCTR

CD Rat FEMALE	F1	0PPM	F1	5PPM	F1	100PPM	F1	500PPM	F1	5PPM/CTL	F1	100PPM/CTL
Liver	(54)		(50)		(50)		(49)		(50)		(50)	
Cholangioma	1 (2%)											
Fibrous Histiocytoma, Metastatic, Skin			1 (2%)									
Hepatocellular Adenoma												
Histiocytic Sarcoma			1 (2%)							1 (2%)		
Leukemia Granulocytic	1 (2%)											
Leukemia Mononuclear							1 (2%)					
Lymphoma Malignant	1 (2%)											
Mesentery	(1)		(2)		(1)		(2)		(2)		(0)	
Lipoma	1 (100%)											
Sarcoma			1 (50%)									
Pancreas	(54)		(50)		(50)		(48)		(50)		(50)	
Leukemia Granulocytic	1 (2%)											
Lymphoma Malignant	1 (2%)											
Salivary Glands	(54)		(50)		(50)		(49)		(50)		(50)	
Leukemia Granulocytic	1 (2%)											
Leukemia Mononuclear							1 (2%)					
Stomach, Forestomach	(54)		(50)		(50)		(49)		(49)		(49)	
Leukemia Granulocytic	1 (2%)											
Stomach, Glandular	(54)		(50)		(50)		(49)		(50)		(50)	
Tongue	(0)		(0)		(0)		(0)		(1)		(0)	
CARDIOVASCULAR SYSTEM												
Blood Vessel	(53)		(50)		(50)		(49)		(50)		(50)	
Heart	(54)		(50)		(50)		(49)		(50)		(50)	
Histiocytic Sarcoma										1 (2%)		
Leukemia Granulocytic	1 (2%)											
Schwannoma Nos										1 (2%)		

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

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

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 17:25:59
First Dose M/F: NA / NA
Lab: NCTR

CD Rat FEMALE	F1	0PPM	F1	5PPM	F1	100PPM	F1	500PPM	F1	5PPM/CTL	F1	100PPM/CTL
ENDOCRINE SYSTEM												
Adrenal Cortex		(54)		(50)		(50)		(49)		(50)		(50)
Adenoma		2 (4%)		1 (2%)		2 (4%)		1 (2%)				2 (4%)
Carcinoma										1 (2%)		
Leukemia Granulocytic		1 (2%)										
Leukemia Mononuclear								1 (2%)				
Lymphoma Malignant		1 (2%)										
Adrenal Medulla		(54)		(48)		(50)		(48)		(48)		(50)
Leukemia Mononuclear								1 (2%)				
Pheochromocytoma Benign				1 (2%)						2 (4%)		
Pheochromocytoma Complex						1 (2%)						
Islets, Pancreatic		(54)		(50)		(50)		(48)		(50)		(50)
Adenoma		1 (2%)		1 (2%)		2 (4%)				2 (4%)		1 (2%)
Carcinoma				1 (2%)				1 (2%)				1 (2%)
Parathyroid Gland		(46)		(46)		(46)		(44)		(47)		(42)
Leukemia Granulocytic		1 (2%)										
Pituitary Gland		(54)		(50)		(50)		(49)		(49)		(50)
Leukemia Granulocytic		1 (2%)										
Leukemia Mononuclear								1 (2%)				
Pars Distalis, Adenoma		38 (70%)		40 (80%)		33 (66%)		46 (94%)		32 (65%)		40 (80%)
Pars Distalis, Carcinoma						1 (2%)						
Thyroid Gland		(54)		(50)		(49)		(49)		(50)		(50)
C Cell, Adenoma		2 (4%)				2 (4%)		3 (6%)		1 (2%)		1 (2%)
C Cell, Carcinoma												
Follicular Cel, Adenoma												
Leukemia Granulocytic		1 (2%)										
Leukemia Mononuclear								1 (2%)				

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 99930-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:25:59

First Dose M/F: NA / NA

Lab: NCTR

CD Rat FEMALE	F1	0PPM	F1	5PPM	F1	100PPM	F1	500PPM	F1	5PPM/CTL	F1	100PPM/CTL
GENERAL BODY SYSTEM												
Tissue NOS		(0)		(0)		(0)		(0)		(0)		(0)
Liposarcoma												
GENITAL SYSTEM												
Clitoral Gland		(51)		(49)		(49)		(49)		(49)		(49)
Carcinoma						1 (2%)						
Leukemia Granulocytic		1 (2%)										
Leukemia Mononuclear								1 (2%)				
Squamous Cell Papilloma		1 (2%)				1 (2%)				1 (2%)		1 (2%)
Ovary		(54)		(50)		(50)		(49)		(50)		(49)
Granulosa Cell Tumor Benign								1 (2%)		1 (2%)		
Granulosa Cell Tumor Malignant						2 (4%)				1 (2%)		
Histiocytic Sarcoma										1 (2%)		
Leukemia Granulocytic		1 (2%)										
Leukemia Mononuclear								1 (2%)				
Sarcoma Stromal						1 (2%)						1 (2%)
Oviduct		(54)		(50)		(49)		(49)		(50)		(49)
Leukemia Mononuclear								1 (2%)				
Uterus		(54)		(50)		(50)		(49)		(50)		(49)
Adenocarcinoma						1 (2%)						
Adenoma								1 (2%)				
Leiomyosarcoma												
Leukemia Granulocytic		1 (2%)										
Leukemia Mononuclear								1 (2%)				
Polyp Stromal		4 (7%)		1 (2%)		3 (6%)		1 (2%)		1 (2%)		2 (4%)
Sarcoma Stromal		1 (2%)				1 (2%)				1 (2%)		
Vagina		(54)		(50)		(50)		(48)		(49)		(48)

a - Number of animals examined microscopically at site and number of animals with lesion

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* Number of animals with any tissue examined microscopically

Experiment Number: 99930-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:25:59

First Dose M/F: NA / NA

Lab: NCTR

CD Rat FEMALE	F1	0PPM	F1	5PPM	F1	100PPM	F1	500PPM	F1	5PPM/CTL	F1	100PPM/CTL
Granular Cell Tumor Benign		1 (2%)										1 (2%)
Leukemia Granulocytic		1 (2%)										
Sarcoma Stromal		1 (2%)				1 (2%)						
HEMATOPOIETIC SYSTEM												
Bone Marrow		(54)		(50)		(50)		(48)		(50)		(50)
Histiocytic Sarcoma										1 (2%)		
Leukemia Granulocytic		1 (2%)										
Lymph Node		(11)		(10)		(12)		(5)		(9)		(10)
Lumbar, Leukemia Granulocytic		1 (9%)										
Lumbar, Lymphoma Malignant		1 (9%)										
Pancreatic, Fibrous Histiocytoma, Metastatic, Skin				1 (10%)								
Renal, Fibrous Histiocytoma, Metastatic, Skin				1 (10%)								
Renal, Lymphoma Malignant		1 (9%)										
Lymph Node, Mandibular		(53)		(50)		(50)		(49)		(50)		(50)
Histiocytic Sarcoma										1 (2%)		
Leukemia Granulocytic		1 (2%)										
Leukemia Mononuclear								1 (2%)				
Lymph Node, Mesenteric		(54)		(50)		(50)		(48)		(50)		(50)
Leukemia Granulocytic		1 (2%)										
Leukemia Mononuclear								1 (2%)				
Lymphoma Malignant		1 (2%)										
Spleen		(54)		(50)		(50)		(49)		(50)		(50)
Leukemia Granulocytic		1 (2%)										
Leukemia Mononuclear								1 (2%)				
Lymphoma Malignant		1 (2%)										
Thymus		(50)		(43)		(43)		(44)		(47)		(47)
Leukemia Granulocytic		1 (2%)										

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Experiment Number: 99930-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:25:59

First Dose M/F: NA / NA

Lab: NCTR

CD Rat FEMALE	F1	0PPM	F1	5PPM	F1	100PPM	F1	500PPM	F1	5PPM/CTL	F1	100PPM/CTL
Leukemia Mononuclear								1 (2%)				
Lymphoma Malignant	1 (2%)											
Thymoma Malignant	1 (2%)											
INTEGUMENTARY SYSTEM												
Mammary Gland	(54)		(50)		(50)		(49)		(50)		(50)	
Adenocarcinoma	7 (13%)		1 (2%)		6 (12%)		10 (20%)		3 (6%)		3 (6%)	
Adenocarcinoma, Multiple	1 (2%)		2 (4%)		2 (4%)		3 (6%)					
Adenoma	2 (4%)		1 (2%)				5 (10%)				2 (4%)	
Fibroadenoma	19 (35%)		17 (34%)		20 (40%)		8 (16%)		21 (42%)		14 (28%)	
Fibroadenoma, Multiple	13 (24%)		10 (20%)		8 (16%)		4 (8%)		9 (18%)		17 (34%)	
Fibroma			1 (2%)									
Leukemia Granulocytic	1 (2%)											
Leukemia Mononuclear							1 (2%)					
Skin	(54)		(50)		(50)		(49)		(50)		(50)	
Fibroma	1 (2%)								1 (2%)		1 (2%)	
Fibrous Histiocytoma			1 (2%)									
Histiocytic Sarcoma			1 (2%)									
Keratoacanthoma			1 (2%)						1 (2%)			
Lipoma	1 (2%)				1 (2%)						1 (2%)	
Osteosarcoma												
Sarcoma	2 (4%)											
Squamous Cell Carcinoma	1 (2%)											
MUSCULOSKELETAL SYSTEM												
Bone, Femur	(54)		(50)		(50)		(49)		(50)		(50)	
Bone, Mandible	(0)		(0)		(0)		(0)		(1)		(0)	
Squamous Cell Carcinoma									1 (100%)			
Bone, Tibia	(0)		(0)		(0)		(0)		(0)		(0)	

a - Number of animals examined microscopically at site and number of animals with lesion

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Experiment Number: 99930-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:25:59

First Dose M/F: NA / NA

Lab: NCTR

CD Rat FEMALE	F1 0PPM	F1 5PPM	F1 100PPM	F1 500PPM	F1 5PPM/CTL	F1 100PPM/CTL
Skeletal Muscle	(0)	(1)	(1)	(0)	(1)	(1)
Granulosa Cell Tumor Malignant, Metastatic, Ovary					1 (100%)	
Hemangiosarcoma				1 (100%)		
Histiocytic Sarcoma		1 (100%)				
Lipoma						1 (100%)
Sarcoma			1 (100%)			
NERVOUS SYSTEM						
Brain, Brain Stem	(54)	(50)	(50)	(49)	(50)	(50)
Brain, Cerebellum	(53)	(50)	(50)	(49)	(49)	(50)
Astrocytoma Malignant		1 (2%)				
Granular Cell Tumor Benign				1 (2%)		
Brain, Cerebrum	(54)	(50)	(50)	(49)	(50)	(50)
Astrocytoma Malignant						1 (2%)
Granular Cell Tumor Benign	1 (2%)			1 (2%)		
Granular Cell Tumor Malignant			1 (2%)			
Granular Cell Tumor Nos				1 (2%)		
Histiocytic Sarcoma					1 (2%)	
Leukemia Granulocytic	1 (2%)					
Leukemia Mononuclear				1 (2%)		
Meningioma Malignant			1 (2%)			
RESPIRATORY SYSTEM						
Lung	(54)	(50)	(50)	(49)	(50)	(50)
Alveolar/Bronchiolar Adenoma		1 (2%)	1 (2%)		1 (2%)	
Histiocytic Sarcoma		1 (2%)			1 (2%)	
Leukemia Granulocytic	1 (2%)					
Leukemia Mononuclear				1 (2%)		
Lymphoma Malignant	1 (2%)					

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 99930-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:25:59

First Dose M/F: NA / NA

Lab: NCTR

CD Rat FEMALE	F1	0PPM	F1	5PPM	F1	100PPM	F1	500PPM	F1	5PPM/CTL	F1	100PPM/CTL
Squamous Cell Carcinoma, Metastatic, Nose								1 (2%)				
Nose	(54)		(50)		(50)		(49)		(50)		(50)	
Histiocytic Sarcoma									1 (2%)			
Leukemia Granulocytic	1 (2%)											
Leukemia Mononuclear							1 (2%)					
Squamous Cell Carcinoma					1 (2%)		2 (4%)					
Trachea	(54)		(50)		(50)		(49)		(50)		(50)	
Leukemia Granulocytic	1 (2%)											
Leukemia Mononuclear							1 (2%)					
SPECIAL SENSES SYSTEM												
Ear	(0)		(0)		(0)		(0)		(2)		(0)	
Squamous Cell Papilloma									1 (50%)			
Eye	(32)		(32)		(31)		(26)		(33)		(37)	
Leukemia Mononuclear							1 (4%)					
Harderian Gland	(30)		(34)		(30)		(25)		(33)		(36)	
Leukemia Mononuclear							1 (4%)					
Squamous Cell Carcinoma, Metastatic, Nose							1 (4%)					
Lacrimal Gland	(0)		(1)		(1)		(1)		(1)		(0)	
URINARY SYSTEM												
Kidney	(54)		(50)		(50)		(49)		(50)		(50)	
Histiocytic Sarcoma			1 (2%)									
Leukemia Granulocytic	1 (2%)											
Leukemia Mononuclear							1 (2%)					
Nephroblastoma							1 (2%)					
Renal Tubule, Adenoma											1 (2%)	
Transitional Epithelial Carcinoma	1 (2%)											

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 99930-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:25:59

First Dose M/F: NA / NA

Lab: NCTR

CD Rat FEMALE	F1 0PPM	F1 5PPM	F1 100PPM	F1 500PPM	F1 5PPM/CTL	F1 100PPM/CTL
Urinary Bladder	(54)	(49)	(49)	(49)	(49)	(48)
Leukemia Mononuclear				1 (2%)		
SYSTEMIC LESIONS						
Multiple Organ	*(54)	*(50)	*(50)	*(49)	*(50)	*(50)
Histiocytic Sarcoma		1 (2%)			1 (2%)	
Leukemia Granulocytic	1 (2%)					
Leukemia Mononuclear				1 (2%)		
Lymphoma Malignant	1 (2%)					

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

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

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 17:25:59
First Dose M/F: NA / NA
Lab: NCTR

CD Rat FEMALE	F1 500PPM/CTL
Disposition Summary	
Animals Initially In Study	50
Early Deaths	
Moribund	18
Natural Death	9
Survivors	
Moribund	
Natural Death	
Terminal Sacrifice	23
Animals Examined Microscopically	50

ALIMENTARY SYSTEM

Esophagus	(50)
Intestine Large	(0)
Intestine Large, Cecum	(50)
Leukemia Granulocytic	
Intestine Large, Colon	(50)
Leiomyosarcoma	1 (2%)
Leukemia Granulocytic	
Leukemia Mononuclear	
Intestine Large, Rectum	(26)
Intestine Small	(0)
Intestine Small, Duodenum	(50)
Leukemia Granulocytic	
Intestine Small, Ileum	(47)
Leukemia Granulocytic	
Intestine Small, Jejunum	(49)
Adenoma	

a - Number of animals examined microscopically at site and number of animals with lesion

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* Number of animals with any tissue examined microscopically

Experiment Number: 99930-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:25:59

First Dose M/F: NA / NA

Lab: NCTR

CD Rat FEMALE	F1 500PPM/CTL
Liver	(50)
Cholangioma	
Fibrous Histiocytoma, Metastatic, Skin	
Hepatocellular Adenoma	1 (2%)
Histiocytic Sarcoma	
Leukemia Granulocytic	
Leukemia Mononuclear	
Lymphoma Malignant	
Mesentery	(2)
Lipoma	
Sarcoma	
Pancreas	(50)
Leukemia Granulocytic	
Lymphoma Malignant	
Salivary Glands	(50)
Leukemia Granulocytic	
Leukemia Mononuclear	
Stomach, Forestomach	(50)
Leukemia Granulocytic	
Stomach, Glandular	(50)
Tongue	(0)

CARDIOVASCULAR SYSTEM

Blood Vessel	(50)
Heart	(50)
Histiocytic Sarcoma	
Leukemia Granulocytic	
Schwannoma Nos	

a - Number of animals examined microscopically at site and number of animals with lesion

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* Number of animals with any tissue examined microscopically

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

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 17:26:00
First Dose M/F: NA / NA
Lab: NCTR

CD Rat FEMALE	F1 500PPM/CTL
ENDOCRINE SYSTEM	
Adrenal Cortex	(50)
Adenoma	2 (4%)
Carcinoma	
Leukemia Granulocytic	
Leukemia Mononuclear	
Lymphoma Malignant	
Adrenal Medulla	(48)
Leukemia Mononuclear	
Pheochromocytoma Benign	
Pheochromocytoma Complex	
Islets, Pancreatic	(50)
Adenoma	1 (2%)
Carcinoma	
Parathyroid Gland	(43)
Leukemia Granulocytic	
Pituitary Gland	(50)
Leukemia Granulocytic	
Leukemia Mononuclear	
Pars Distalis, Adenoma	43 (86%)
Pars Distalis, Carcinoma	1 (2%)
Thyroid Gland	(50)
C Cell, Adenoma	1 (2%)
C Cell, Carcinoma	1 (2%)
Follicular Cel, Adenoma	1 (2%)
Leukemia Granulocytic	
Leukemia Mononuclear	

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

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

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
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CAS Number: 446-72-0

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

CD Rat FEMALE	F1 500PPM/CTL
GENERAL BODY SYSTEM	
Tissue NOS	(1)
Liposarcoma	1 (100%)
GENITAL SYSTEM	
Clitoral Gland	(49)
Carcinoma	
Leukemia Granulocytic	
Leukemia Mononuclear	
Squamous Cell Papilloma	
Ovary	(49)
Granulosa Cell Tumor Benign	
Granulosa Cell Tumor Malignant	
Histiocytic Sarcoma	
Leukemia Granulocytic	
Leukemia Mononuclear	
Sarcoma Stromal	
Oviduct	(47)
Leukemia Mononuclear	
Uterus	(50)
Adenocarcinoma	
Adenoma	
Leiomyosarcoma	1 (2%)
Leukemia Granulocytic	
Leukemia Mononuclear	
Polyp Stromal	3 (6%)
Sarcoma Stromal	
Vagina	(50)

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 99930-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

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CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:26:00

First Dose M/F: NA / NA

Lab: NCTR

CD Rat FEMALE	F1 500PPM/CTL
Granular Cell Tumor Benign	
Leukemia Granulocytic	
Sarcoma Stromal	1 (2%)

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)
Histiocytic Sarcoma	
Leukemia Granulocytic	
Lymph Node	(9)
Lumbar, Leukemia Granulocytic	
Lumbar, Lymphoma Malignant	
Pancreatic, Fibrous Histiocytoma, Metastatic, Skin	
Renal, Fibrous Histiocytoma, Metastatic, Skin	
Renal, Lymphoma Malignant	
Lymph Node, Mandibular	(50)
Histiocytic Sarcoma	
Leukemia Granulocytic	
Leukemia Mononuclear	
Lymph Node, Mesenteric	(50)
Leukemia Granulocytic	
Leukemia Mononuclear	
Lymphoma Malignant	
Spleen	(50)
Leukemia Granulocytic	
Leukemia Mononuclear	
Lymphoma Malignant	
Thymus	(47)
Leukemia Granulocytic	

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b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 99930-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

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Date Report Requested: 10/22/2014

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First Dose M/F: NA / NA

Lab: NCTR

CD Rat FEMALE	F1 500PPM/CTL
Leukemia Mononuclear	
Lymphoma Malignant	
Thymoma Malignant	
<hr/>	
INTEGUMENTARY SYSTEM	
Mammary Gland	(50)
Adenocarcinoma	7 (14%)
Adenocarcinoma, Multiple	2 (4%)
Adenoma	1 (2%)
Fibroadenoma	18 (36%)
Fibroadenoma, Multiple	7 (14%)
Fibroma	
Leukemia Granulocytic	
Leukemia Mononuclear	
Skin	(50)
Fibroma	1 (2%)
Fibrous Histiocytoma	
Histiocytic Sarcoma	
Keratoacanthoma	
Lipoma	
Osteosarcoma	1 (2%)
Sarcoma	1 (2%)
Squamous Cell Carcinoma	
<hr/>	
MUSCULOSKELETAL SYSTEM	
Bone, Femur	(50)
Bone, Mandible	(0)
Squamous Cell Carcinoma	
Bone, Tibia	(1)

a - Number of animals examined microscopically at site and number of animals with lesion

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* Number of animals with any tissue examined microscopically

Experiment Number: 99930-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

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Date Report Requested: 10/22/2014

Time Report Requested: 17:26:00

First Dose M/F: NA / NA

Lab: NCTR

CD Rat FEMALE	F1 500PPM/CTL
Skeletal Muscle	(0)
Granulosa Cell Tumor Malignant, Metastatic, Ovary	
Hemangiosarcoma	
Histiocytic Sarcoma	
Lipoma	
Sarcoma	
<hr/>	
NERVOUS SYSTEM	
Brain, Brain Stem	(50)
Brain, Cerebellum	(50)
Astrocytoma Malignant	
Granular Cell Tumor Benign	
Brain, Cerebrum	(50)
Astrocytoma Malignant	
Granular Cell Tumor Benign	
Granular Cell Tumor Malignant	
Granular Cell Tumor Nos	
Histiocytic Sarcoma	
Leukemia Granulocytic	
Leukemia Mononuclear	
Meningioma Malignant	
<hr/>	
RESPIRATORY SYSTEM	
Lung	(50)
Alveolar/Bronchiolar Adenoma	
Histiocytic Sarcoma	
Leukemia Granulocytic	
Leukemia Mononuclear	
Lymphoma Malignant	

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 99930-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:26:00

First Dose M/F: NA / NA

Lab: NCTR

CD Rat FEMALE	F1 500PPM/CTL
Squamous Cell Carcinoma, Metastatic, Nose	
Nose	(50)
Histiocytic Sarcoma	
Leukemia Granulocytic	
Leukemia Mononuclear	
Squamous Cell Carcinoma	1 (2%)
Trachea	(50)
Leukemia Granulocytic	
Leukemia Mononuclear	
<hr/>	
SPECIAL SENSES SYSTEM	
Ear	(0)
Squamous Cell Papilloma	
Eye	(28)
Leukemia Mononuclear	
Harderian Gland	(26)
Leukemia Mononuclear	
Squamous Cell Carcinoma, Metastatic, Nose	
Lacrimal Gland	(2)
<hr/>	
URINARY SYSTEM	
Kidney	(50)
Histiocytic Sarcoma	
Leukemia Granulocytic	
Leukemia Mononuclear	
Nephroblastoma	
Renal Tubule, Adenoma	
Transitional Epithelial Carcinoma	

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 99930-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:26:00

First Dose M/F: NA / NA

Lab: NCTR

CD Rat FEMALE	F1 500PPM/CTL
Urinary Bladder	(49)
Leukemia Mononuclear	
<hr/>	
SYSTEMIC LESIONS	
Multiple Organ	*(50)
Histiocytic Sarcoma	
Leukemia Granulocytic	
Leukemia Mononuclear	
Lymphoma Malignant	

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

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

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
 Test Compound: Endocrine disruptor (Genistein)
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014
 Time Report Requested: 17:26:00
 First Dose M/F: NA / NA
 Lab: NCTR

CD Rat FEMALE	F1	0PPM	F1	5PPM	F1	100PPM	F1	500PPM	F1	5PPM/CTL	F1	100PPM/CTL
Tumor Summary for FEMALE												
Total Animals with Primary Neoplasms (b)		53		47		45		49		45		49
Total Primary Neoplasms		105		84		95		91		83		91
Total Animals with Benign Neoplasms		49		45		44		46		44		49
Total Benign Neoplasms		88		76		73		72		74		85
Total Animals with Malignant Neoplasms		16		7		19		18		8		6
Total Malignant Neoplasms		17		8		22		18		8		6
Total Animals with Metastatic Neoplasms				1				1		1		
Total Metastatic Neoplasms				3				2		1		
Total Animals with Malignant Neoplasms Uncertain Primary Site												
Total Animals with Neoplasms Uncertain - Benign or Malignant								1		1		
Total Uncertain Neoplasms								1		1		

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

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

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 17:26:00
First Dose M/F: NA / NA
Lab: NCTR

CD Rat FEMALE	F1 500PPM/CTL
Tumor Summary for FEMALE	
Total Animals with Primary Neoplasms (b)	50
Total Primary Neoplasms	97
Total Animals with Benign Neoplasms	50
Total Benign Neoplasms	79
Total Animals with Malignant Neoplasms	15
Total Malignant Neoplasms	18
Total Animals with Metastatic Neoplasms	
Total Metastatic Neoplasms	
Total Animals with Malignant Neoplasms Uncertain Primary Site	
Total Animals with Neoplasms Uncertain - Benign or Malignant	
Total Uncertain Neoplasms	

**** END OF REPORT ****

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically