

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS
ABRIDGED) (a)**

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

Date Report Requested: 10/22/2014
Time Report Requested: 14:24:40
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)
Adventitia, Fibrous Histiocytoma, Metastatic, Uncertain Primary Site						
Intestine Large, Cecum	(44)	(46)	(50)	(46)	(45)	(42)
Serosa, Carcinoma, Metastatic, Prostate				1 (2%)		
Intestine Large, Colon	(46)	(46)	(50)	(46)	(45)	(43)
Adenocarcinoma						
Adenoma		1 (2%)				
Serosa, Carcinoma, Metastatic, Prostate				1 (2%)		
Intestine Large, Rectum	(37)	(42)	(43)	(34)	(37)	(33)
Leiomyosarcoma						
Intestine Small, Duodenum	(46)	(45)	(50)	(46)	(45)	(43)
Adenocarcinoma						
Sarcoma						
Serosa, Carcinoma, Metastatic, Prostate				1 (2%)		
Intestine Small, Ileum	(43)	(47)	(50)	(44)	(44)	(42)
Adenocarcinoma		1 (2%)				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

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CD Rat MALE	F1 0PPM	F1 5PPM	F1 100PPM	F1 500PPM	F1 5PPM/CTL	F1 100PPM/CTL
Intestine Small, Jejunum	(44)	(45)	(50)	(43)	(42)	(42)
Adenocarcinoma	1 (2%)	1 (2%)				
Liver	(51)	(48)	(50)	(48)	(49)	(47)
Carcinoma, Metastatic, Pancreas						
Carcinoma, Metastatic, Prostate				1 (2%)		
Cholangiocarcinoma						1 (2%)
Hepatocellular Adenoma	1 (2%)	2 (4%)	2 (4%)		1 (2%)	1 (2%)
Hepatocellular Carcinoma		1 (2%)				
Mesentery	(1)	(1)	(0)	(1)	(1)	(1)
Oral Mucosa	(0)	(0)	(0)	(1)	(0)	(0)
Osteosarcoma				1 (100%)		
Pancreas	(50)	(49)	(50)	(49)	(49)	(46)
Acinar Cell, Adenoma						
Carcinoma						
Carcinoma, Metastatic, Prostate				1 (2%)		
Salivary Glands	(49)	(49)	(50)	(47)	(49)	(46)
Carcinoma, Metastatic, Pancreas						
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site						
Neurofibrosarcoma	1 (2%)					
Stomach, Forestomach	(45)	(46)	(50)	(46)	(47)	(45)
Stomach, Glandular	(45)	(47)	(50)	(44)	(46)	(44)
Tongue	(0)	(0)	(0)	(0)	(0)	(0)
CARDIOVASCULAR SYSTEM						
Blood Vessel	(53)	(50)	(50)	(50)	(50)	(48)
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site						
Heart	(52)	(50)	(50)	(50)	(48)	(48)

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CD Rat MALE	F1 0PPM	F1 5PPM	F1 100PPM	F1 500PPM	F1 5PPM/CTL	F1 100PPM/CTL
Pericardium, Fibrous Histiocytoma, Metastatic, Uncertain Primary Site						
ENDOCRINE SYSTEM						
Adrenal Cortex	(49)	(47)	(50)	(48)	(47)	(46)
Adenoma	1 (2%)	1 (2%)		1 (2%)	2 (4%)	1 (2%)
Adrenal Medulla	(47)	(49)	(50)	(49)	(47)	(46)
Bilateral, Pheochromocytoma Benign	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%)		
Parathyroid Gland	(47)	(47)	(47)	(47)	(48)	(47)
Adenoma	1 (2%)					
Pituitary Gland	(49)	(46)	(50)	(49)	(49)	(48)
Pars Distalis, Adenoma	22 (45%)	14 (30%)	22 (44%)	21 (43%)	18 (37%)	13 (27%)
Pars Distalis, Adenoma, Multiple	1 (2%)			1 (2%)		
Thyroid Gland	(49)	(47)	(50)	(46)	(46)	(44)
Bilateral, C Cell, Adenoma						
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%)	
GENERAL BODY SYSTEM						
Tissue NOS	(0)	(0)	(1)	(1)	(0)	(0)
Abdominal, Carcinoma, Metastatic, Prostate				1 (100%)		
Abdominal, Sarcoma						

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Chondrosarcoma			1 (100%)			
Squamous Cell Carcinoma						
GENITAL SYSTEM						
Coagulating Gland	(47)	(49)	(50)	(45)	(45)	(45)
Adenocarcinoma, Metastatic, Prostate	1 (2%)					1 (2%)
Carcinoma, Metastatic, Prostate				1 (2%)		
Sarcoma, Metastatic, Uncertain Primary Site						
Epididymis	(51)	(48)	(50)	(49)	(50)	(47)
Carcinoma, Metastatic, Prostate				1 (2%)		
Penis	(0)	(1)	(0)	(0)	(1)	(0)
Preputial Gland	(49)	(48)	(49)	(49)	(50)	(48)
Adventitia, Squamous Cell Carcinoma						1 (2%)
Carcinoma						
Sarcoma					1 (2%)	
Squamous Cell Carcinoma	1 (2%)	3 (6%)	1 (2%)	2 (4%)	2 (4%)	1 (2%)
Prostate	(8)	(9)	(2)	(2)	(8)	(6)
Prostate, Dorsal Lobe	(48)	(49)	(50)	(49)	(49)	(50)
Adenocarcinoma	2 (4%)					1 (2%)
Carcinoma				1 (2%)		
Carcinoma, Metastatic, Urinary Bladder						
Sarcoma, Metastatic, Uncertain Primary Site						
Prostate, Ventral Lobe	(48)	(49)	(50)	(48)	(49)	(48)
Adenocarcinoma	1 (2%)					1 (2%)
Adenoma					1 (2%)	
Carcinoma				1 (2%)		
Carcinoma, Metastatic, Urinary Bladder						
Rete Testes	(44)	(47)	(47)	(44)	(50)	(46)

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Rete Testes	(44)	(47)	(47)	(44)	(50)	(46)
Seminal Vesicle	(47)	(48)	(50)	(45)	(43)	(45)
Adenocarcinoma, Metastatic, Prostate	2 (4%)					1 (2%)
Adenoma						
Carcinoma, Metastatic, Prostate				1 (2%)		
Sarcoma						
Sarcoma, Metastatic, Uncertain Primary Site						
Testes	(50)	(50)	(50)	(49)	(49)	(47)
Capsule, Carcinoma, Metastatic, Prostate				1 (2%)		
Interstitial Cell, Adenoma						
Seminoma Benign				1 (2%)		
HEMATOPOIETIC SYSTEM						
Bone Marrow	(49)	(49)	(50)	(48)	(48)	(47)
Carcinoma, Metastatic, Pancreas						
Lymph Node	(15)	(13)	(16)	(8)	(14)	(14)
Lumbar, Squamous Cell Carcinoma, Metastatic, Preputial Gland						
Lymph Node, Mandibular	(52)	(50)	(49)	(46)	(49)	(45)
Fibrosarcoma, Metastatic, Skin					1 (2%)	
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site						
Lymph Node, Mesenteric	(48)	(50)	(50)	(46)	(47)	(45)
Spleen	(52)	(48)	(50)	(48)	(50)	(47)
Carcinoma, Metastatic, Pancreas						
Hemangiosarcoma						1 (2%)
Sarcoma				1 (2%)		
Thymus	(42)	(44)	(45)	(42)	(47)	(40)

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Adventitia, Fibrous Histiocytoma, Metastatic, Uncertain Primary Site						
INTEGUMENTARY SYSTEM						
Mammary Gland	(41)	(43)	(40)	(42)	(42)	(34)
Adenocarcinoma			1 (3%)			
Fibroadenoma		1 (2%)		2 (5%)		
Fibroma						
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%)
Neurofibrosarcoma						
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	(0)	(0)	(0)	(0)	(0)	(0)
Chordoma						
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, Pancreas						

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Carcinoma, Metastatic, Prostate Fibrous Histiocytoma, Metastatic, Uncertain Primary Site				1 (100%)		
NERVOUS SYSTEM						
Brain, Brain Stem	(50)	(48)	(50)	(48)	(50)	(48)
Astrocytoma Malignant						
Glioma Malignant						
Reticulosis Malignant						
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%)
Reticulosis Malignant						
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%)
Reticulosis Malignant						
RESPIRATORY SYSTEM						
Lung	(49)	(47)	(50)	(47)	(48)	(44)
Adenocarcinoma						
Alveolar Epith, Adenoma		1 (2%)				
Alveolar/Bronchiolar Carcinoma	1 (2%)					
Carcinoma, Metastatic, Pancreas						
Carcinoma, Metastatic, Prostate					1 (2%)	
Carcinoma, Metastatic, Uncertain Primary Site						

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Chondrosarcoma, Metastatic, Uncertain Primary Site			1 (2%)			
Fibrosarcoma, Metastatic, Skin			1 (2%)		1 (2%)	
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site						
Squamous Cell Carcinoma, Metastatic, Preputial Gland					1 (2%)	
Nose	(48)	(48)	(50)	(48)	(47)	(45)
Adventitia, Squamous Cell Carcinoma						
Squamous Cell Carcinoma				2 (4%)		1 (2%)
Trachea	(47)	(47)	(50)	(46)	(47)	(46)
Adventitia, Fibrous Histiocytoma, Metastatic, Uncertain Primary Site						
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%)		
Retrobulbar, Carcinoma						
Harderian Gland	(39)	(42)	(43)	(37)	(39)	(33)
Adenoma	1 (3%)					
Adventitia, Squamous Cell Carcinoma						
Lacrimal Gland	(10)	(9)	(10)	(14)	(14)	(12)
Zymbal's Gland	(0)	(1)	(0)	(1)	(0)	(1)
Adenoma						
Carcinoma						1 (100%)
Squamous Cell Carcinoma		1 (100%)		1 (100%)		
URINARY SYSTEM						
Kidney	(48)	(48)	(50)	(48)	(48)	(46)

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Adenoma, Tubular	1 (2%)					
Adventitia, Carcinoma, Metastatic, Pancreas						
Fibrosarcoma, Metastatic, Skin			1 (2%)			
Transit Epithe, Papilloma						
Urethra	(0)	(0)	(1)	(1)	(1)	(1)
Urinary Bladder	(47)	(48)	(50)	(46)	(48)	(46)
Serosa, Carcinoma, Metastatic, Prostate				1 (2%)		
Transit Epithe, Carcinoma						
SYSTEMIC LESIONS						
Multiple Organ	*(54)	*(50)	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma						
Leukemia						
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%)			

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Disposition Summary					
Animals Initially In Study	50	52	50	50	50
Early Deaths					
Moribund	5	6		8	3
Natural Death	7	9	6	5	8
Survivors					
Moribund		2	1	3	1
Natural Death		2	1	1	2
Terminal Sacrifice	38	33	42	33	36
Animals Examined Microscopically	50	52	50	49	49

ALIMENTARY SYSTEM

Esophagus	(49)	(49)	(49)	(48)	(49)
Adventitia, Fibrous Histiocytoma, Metastatic, Uncertain Primary Site		1 (2%)			
Intestine Large, Cecum	(44)	(41)	(43)	(46)	(45)
Serosa, Carcinoma, Metastatic, Prostate					
Intestine Large, Colon	(46)	(41)	(43)	(46)	(45)
Adenocarcinoma		1 (2%)			
Adenoma	1 (2%)				
Serosa, Carcinoma, Metastatic, Prostate					
Intestine Large, Rectum	(39)	(38)	(42)	(38)	(38)
Leiomyosarcoma		1 (3%)			
Intestine Small, Duodenum	(45)	(41)	(43)	(46)	(43)
Adenocarcinoma		2 (5%)			
Sarcoma	1 (2%)				
Serosa, Carcinoma, Metastatic, Prostate					
Intestine Small, Ileum	(43)	(40)	(42)	(45)	(43)
Adenocarcinoma					

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Intestine Small, Jejunum	(42)	(40)	(43)	(45)	(41)
Adenocarcinoma					1 (2%)
Liver	(48)	(49)	(47)	(47)	(48)
Carcinoma, Metastatic, Pancreas					1 (2%)
Carcinoma, Metastatic, Prostate					
Cholangiocarcinoma					
Hepatocellular Adenoma	1 (2%)	1 (2%)			1 (2%)
Hepatocellular Carcinoma		1 (2%)	1 (2%)		
Mesentery	(1)	(0)	(1)	(0)	(0)
Oral Mucosa	(0)	(0)	(0)	(0)	(0)
Osteosarcoma					
Pancreas	(48)	(45)	(47)	(48)	(47)
Acinar Cell, Adenoma	1 (2%)			2 (4%)	
Carcinoma					1 (2%)
Carcinoma, Metastatic, Prostate					
Salivary Glands	(50)	(49)	(47)	(47)	(48)
Carcinoma, Metastatic, Pancreas					1 (2%)
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site		1 (2%)			
Neurofibrosarcoma					
Stomach, Forestomach	(49)	(44)	(45)	(48)	(47)
Stomach, Glandular	(45)	(41)	(43)	(46)	(46)
Tongue	(0)	(0)	(0)	(1)	(0)
CARDIOVASCULAR SYSTEM					
Blood Vessel	(49)	(51)	(50)	(49)	(47)
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site		1 (2%)			
Heart	(50)	(51)	(48)	(49)	(47)

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: 99930-92
 Test Type: MULTIGEN CHRONIC
 Route: DOSED FEED
 Species/Strain: Rat/CD

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

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

Date Report Requested: 10/22/2014
 Time Report Requested: 14:24:41
 First Dose M/F: NA / NA
 Lab: NCTR

CD Rat MALE	F1 500PPM/CTL	F3 0 PPM	F3 5PPM TO CTL	F3 100PPM TO CTL	F3 500PPM TO CTL
Pericardium, Fibrous Histiocytoma, Metastatic, Uncertain Primary Site		1 (2%)			
ENDOCRINE SYSTEM					
Adrenal Cortex	(46)	(48)	(47)	(47)	(47)
Adenoma	1 (2%)			1 (2%)	
Adrenal Medulla	(45)	(48)	(46)	(47)	(45)
Bilateral, Pheochromocytoma Benign					
Pheochromocytoma Benign	4 (9%)	4 (8%)	3 (7%)	4 (9%)	2 (4%)
Pheochromocytoma Complex	1 (2%)				
Pheochromocytoma Malignant	2 (4%)	1 (2%)			
Islets, Pancreatic	(48)	(45)	(49)	(48)	(48)
Adenoma	3 (6%)	3 (7%)	3 (6%)	2 (4%)	
Carcinoma				1 (2%)	
Carcinoma, Metastatic, Prostate					
Parathyroid Gland	(46)	(41)	(46)	(48)	(43)
Adenoma	1 (2%)			1 (2%)	
Pituitary Gland	(48)	(49)	(46)	(48)	(48)
Pars Distalis, Adenoma	15 (31%)	16 (33%)	18 (39%)	17 (35%)	14 (29%)
Pars Distalis, Adenoma, Multiple	1 (2%)	1 (2%)			1 (2%)
Thyroid Gland	(48)	(44)	(46)	(46)	(45)
Bilateral, C Cell, Adenoma		1 (2%)			
C Cell, Adenoma	1 (2%)	1 (2%)			1 (2%)
C Cell, Carcinoma					1 (2%)
Follicular Cel, Adenoma	1 (2%)				
GENERAL BODY SYSTEM					
Tissue NOS	(0)	(0)	(1)	(0)	(2)
Abdominal, Carcinoma, Metastatic, Prostate					
Abdominal, Sarcoma			1 (100%)		

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: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

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

Date Report Requested: 10/22/2014
Time Report Requested: 14:24:41
First Dose M/F: NA / NA
Lab: NCTR

CD Rat MALE	F1 500PPM/CTL	F3 0 PPM	F3 5PPM TO CTL	F3 100PPM TO CTL	F3 500PPM TO CTL
Chondrosarcoma					
Squamous Cell Carcinoma					1 (50%)
GENITAL SYSTEM					
Coagulating Gland	(47)	(44)	(43)	(47)	(45)
Adenocarcinoma, Metastatic, Prostate					
Carcinoma, Metastatic, Prostate					
Sarcoma, Metastatic, Uncertain Primary Site				1 (2%)	
Epididymis	(49)	(49)	(48)	(49)	(47)
Carcinoma, Metastatic, Prostate					
Penis	(0)	(0)	(0)	(0)	(0)
Preputial Gland	(49)	(48)	(48)	(47)	(47)
Adventitia, Squamous Cell Carcinoma					
Carcinoma				1 (2%)	
Sarcoma					
Squamous Cell Carcinoma	1 (2%)			5 (11%)	3 (6%)
Prostate	(3)	(6)	(8)	(6)	(4)
Prostate, Dorsal Lobe	(49)	(51)	(47)	(47)	(48)
Adenocarcinoma					1 (2%)
Carcinoma					
Carcinoma, Metastatic, Urinary Bladder	1 (2%)				
Sarcoma, Metastatic, Uncertain Primary Site				1 (2%)	
Prostate, Ventral Lobe	(48)	(48)	(46)	(48)	(47)
Adenocarcinoma					
Adenoma				1 (2%)	1 (2%)
Carcinoma	1 (2%)				
Carcinoma, Metastatic, Urinary Bladder	1 (2%)				
Rete Testes	(49)	(47)	(48)	(46)	(41)

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: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:24:42
First Dose M/F: NA / NA
Lab: NCTR

CD Rat MALE	F1 500PPM/CTL	F3 0 PPM	F3 5PPM TO CTL	F3 100PPM TO CTL	F3 500PPM TO CTL
Rete Testes	(49)	(47)	(48)	(46)	(41)
Seminal Vesicle	(47)	(43)	(43)	(47)	(45)
Adenocarcinoma, Metastatic, Prostate					
Adenoma				1 (2%)	
Carcinoma, Metastatic, Prostate					
Sarcoma				1 (2%)	
Sarcoma, Metastatic, Uncertain Primary Site				1 (2%)	
Testes	(50)	(50)	(50)	(48)	(49)
Capsule, Carcinoma, Metastatic, Prostate					
Interstitial Cell, Adenoma		1 (2%)	1 (2%)		
Seminoma Benign	1 (2%)	1 (2%)			
HEMATOPOIETIC SYSTEM					
Bone Marrow	(49)	(48)	(48)	(48)	(46)
Carcinoma, Metastatic, Pancreas					1 (2%)
Lymph Node	(9)	(13)	(9)	(18)	(12)
Lumbar, Squamous Cell Carcinoma, Metastatic, Preputial Gland					1 (8%)
Lymph Node, Mandibular	(48)	(48)	(48)	(48)	(48)
Fibrosarcoma, Metastatic, Skin					
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site		1 (2%)			
Lymph Node, Mesenteric	(46)	(45)	(46)	(47)	(47)
Spleen	(49)	(50)	(49)	(48)	(47)
Carcinoma, Metastatic, Pancreas					1 (2%)
Hemangiosarcoma					
Sarcoma		1 (2%)	1 (2%)		
Thymus	(45)	(46)	(45)	(41)	(44)

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* Number of animals with any tissue examined microscopically

Experiment Number: 99930-92
 Test Type: MULTIGEN CHRONIC
 Route: DOSED FEED
 Species/Strain: Rat/CD

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

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

Date Report Requested: 10/22/2014
 Time Report Requested: 14:24:42
 First Dose M/F: NA / NA
 Lab: NCTR

CD Rat MALE	F1 500PPM/CTL	F3 0 PPM	F3 5PPM TO CTL	F3 100PPM TO CTL	F3 500PPM TO CTL
Adventitia, Fibrous Histiocytoma, Metastatic, Uncertain Primary Site		1 (2%)			
INTEGUMENTARY SYSTEM					
Mammary Gland	(45)	(39)	(43)	(41)	(41)
Adenocarcinoma				1 (2%)	
Fibroadenoma					2 (5%)
Fibroma					2 (5%)
Skin	(50)	(49)	(50)	(48)	(49)
Basal Cell Adenoma					1 (2%)
Fibroma	2 (4%)		1 (2%)		
Fibrosarcoma					
Keratoacanthoma		1 (2%)			1 (2%)
Lipoma				1 (2%)	
Neurofibrosarcoma					1 (2%)
Sarcoma	1 (2%)				
Schwannoma Benign					
Schwannoma Malignant		1 (2%)			
Sebaceous Gl, Carcinoma					
Squamous Cell Carcinoma		1 (2%)		3 (6%)	
Squamous Cell Papilloma					1 (2%)
MUSCULOSKELETAL SYSTEM					
Bone	(0)	(0)	(0)	(0)	(1)
Chordoma					1 (100%)
Bone, Cranium	(0)	(2)	(0)	(0)	(0)
Osteoma					
Bone, Femur	(50)	(50)	(50)	(48)	(49)
Skeletal Muscle	(2)	(1)	(0)	(0)	(1)
Carcinoma, Metastatic, Pancreas					1 (100%)

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* Number of animals with any tissue examined microscopically

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:24:42
First Dose M/F: NA / NA
Lab: NCTR

CD Rat MALE	F1 500PPM/CTL	F3 0 PPM	F3 5PPM TO CTL	F3 100PPM TO CTL	F3 500PPM TO CTL
Carcinoma, Metastatic, Prostate					
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site		1 (100%)			
NERVOUS SYSTEM					
Brain, Brain Stem	(48)	(46)	(46)	(48)	(47)
Astrocytoma Malignant	1 (2%)				
Glioma Malignant	1 (2%)				
Reticulosis Malignant					1 (2%)
Brain, Cerebellum	(48)	(46)	(46)	(48)	(46)
Astrocytoma Malignant		1 (2%)			
Granular Cell Tumor Benign					
Granular Cell Tumor Malignant					
Reticulosis Malignant					1 (2%)
Brain, Cerebrum	(48)	(45)	(46)	(48)	(46)
Astrocytoma Malignant	1 (2%)	1 (2%)	1 (2%)		
Glioma Malignant	1 (2%)				
Granular Cell Tumor Benign					
Granular Cell Tumor Malignant					
Reticulosis Malignant					1 (2%)
RESPIRATORY SYSTEM					
Lung	(49)	(48)	(47)	(47)	(46)
Adenocarcinoma			1 (2%)		
Alveolar Epith, Adenoma					
Alveolar/Bronchiolar Carcinoma					
Carcinoma, Metastatic, Pancreas					1 (2%)
Carcinoma, Metastatic, Prostate					
Carcinoma, Metastatic, Uncertain Primary Site			1 (2%)		

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b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 99930-92
 Test Type: MULTIGEN CHRONIC
 Route: DOSED FEED
 Species/Strain: Rat/CD

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

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

Date Report Requested: 10/22/2014
 Time Report Requested: 14:24:42
 First Dose M/F: NA / NA
 Lab: NCTR

CD Rat MALE	F1 500PPM/CTL	F3 0 PPM	F3 5PPM TO CTL	F3 100PPM TO CTL	F3 500PPM TO CTL
Chondrosarcoma, Metastatic, Uncertain Primary Site					
Fibrosarcoma, Metastatic, Skin					
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site		1 (2%)			
Squamous Cell Carcinoma, Metastatic, Preputial Gland					
Nose	(48)	(46)	(45)	(49)	(45)
Adventitia, Squamous Cell Carcinoma					1 (2%)
Squamous Cell Carcinoma			1 (2%)	1 (2%)	
Trachea	(48)	(45)	(44)	(48)	(44)
Adventitia, Fibrous Histiocytoma, Metastatic, Uncertain Primary Site		1 (2%)			
SPECIAL SENSES SYSTEM					
Ear	(1)	(0)	(0)	(0)	(0)
Neural Crest Tumor	1 (100%)				
Eye	(40)	(37)	(43)	(38)	(39)
Adventitia, Squamous Cell Carcinoma					1 (3%)
Retrobulbar, Carcinoma			1 (2%)		
Harderian Gland	(41)	(38)	(43)	(38)	(39)
Adenoma					1 (3%)
Adventitia, Squamous Cell Carcinoma					1 (3%)
Lacrimal Gland	(5)	(0)	(2)	(2)	(1)
Zymbal's Gland	(0)	(0)	(0)	(1)	(0)
Adenoma				1 (100%)	
Carcinoma					
Squamous Cell Carcinoma					
URINARY SYSTEM					
Kidney	(49)	(46)	(49)	(47)	(47)

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* Number of animals with any tissue examined microscopically

Experiment Number: 99930-92
Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:24:42
First Dose M/F: NA / NA
Lab: NCTR

CD Rat MALE	F1 500PPM/CTL	F3 0 PPM	F3 5PPM TO CTL	F3 100PPM TO CTL	F3 500PPM TO CTL
Adenoma, Tubular					
Adventitia, Carcinoma, Metastatic, Pancreas					1 (2%)
Fibrosarcoma, Metastatic, Skin					
Transit Epithe, Papilloma					1 (2%)
Urethra	(2)	(0)	(2)	(2)	(1)
Urinary Bladder	(47)	(45)	(43)	(47)	(46)
Serosa, Carcinoma, Metastatic, Prostate					
Transit Epithe, Carcinoma	1 (2%)				
<hr/>					
SYSTEMIC LESIONS					
Multiple Organ	*(50)	*(52)	*(50)	*(49)	*(49)
Histiocytic Sarcoma				1 (2%)	
Leukemia		1 (2%)			
Leukemia Granulocytic					1 (2%)
Leukemia Mononuclear				1 (2%)	
Lymphoma Malignant	1 (2%)	2 (4%)			
Mesothelioma Benign					
Mesothelioma Malignant				1 (2%)	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: 99930-92
 Test Type: MULTIGEN CHRONIC
 Route: DOSED FEED
 Species/Strain: Rat/CD

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS
 ABRIDGED) (a)**
 Test Compound: Endocrine disruptor (Genistein)
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014
 Time Report Requested: 14:24:42
 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

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* Number of animals with any tissue examined microscopically

Experiment Number: 99930-92
 Test Type: MULTIGEN CHRONIC
 Route: DOSED FEED
 Species/Strain: Rat/CD

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)
 Test Compound: Endocrine disruptor (Genistein)
 CAS Number: 446-72-0

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

CD Rat MALE	F1 500PPM/CTL	F3 0 PPM	F3 5PPM TO CTL	F3 100PPM TO CTL	F3 500PPM TO CTL
Tumor Summary for MALE					
Total Animals with Primary Neoplasms (b)	33	33	26	36	30
Total Primary Neoplasms	47	44	34	46	47
Total Animals with Benign Neoplasms	28	24	21	24	21
Total Benign Neoplasms	33	30	26	31	29
Total Animals with Malignant Neoplasms	10	14	8	13	13
Total Malignant Neoplasms	13	14	8	15	18
Total Animals with Metastatic Neoplasms	1	1	1	1	2
Total Metastatic Neoplasms	2	9	1	3	8
Total Animals with Malignant Neoplasms Uncertain Primary Site		1	1	1	
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: 99930-92
 Test Type: MULTIGEN CHRONIC
 Route: DOSED FEED
 Species/Strain: Rat/CD

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

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

Date Report Requested: 10/22/2014
 Time Report Requested: 14:24:42
 First Dose M/F: NA / NA
 Lab: NCTR

CD Rat FEMALE	F1 0 PPM	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)
Intestine Large, Colon	(54)	(50)	(50)	(49)	(50)	(49)
Leiomyosarcoma						
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)
Intestine Small, Ileum	(53)	(49)	(47)	(45)	(49)	(48)
Intestine Small, Jejunum	(54)	(49)	(47)	(45)	(49)	(48)
Adenoma		1 (2%)				
Leiomyosarcoma						
Liver	(54)	(50)	(50)	(49)	(50)	(50)
Cholangiocarcinoma						
Cholangioma	1 (2%)					
Fibrous Histiocytoma, Metastatic, Skin		1 (2%)				

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Experiment Number: 99930-92
 Test Type: MULTIGEN CHRONIC
 Route: DOSED FEED
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P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

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

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

CD Rat FEMALE	F1 0 PPM	F1 5PPM	F1 100PPM	F1 500PPM	F1 5PPM/CTL	F1 100PPM/CTL
Hepatocellular Adenoma						
Mesentery	(1)	(2)	(1)	(2)	(2)	(0)
Lipoma	1 (100%)					
Sarcoma		1 (50%)				
Oral Mucosa	(0)	(0)	(0)	(0)	(0)	(0)
Sarcoma						
Pancreas	(54)	(50)	(50)	(48)	(50)	(50)
Salivary Glands	(54)	(50)	(50)	(49)	(50)	(50)
Stomach	(0)	(0)	(0)	(0)	(0)	(0)
Stomach, Forestomach	(54)	(50)	(50)	(49)	(49)	(49)
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)
Schwannoma Nos					1 (2%)	
ENDOCRINE SYSTEM						
Adrenal Cortex	(54)	(50)	(50)	(49)	(50)	(50)
Adenoma	2 (4%)	1 (2%)	2 (4%)	1 (2%)		2 (4%)
Carcinoma					1 (2%)	
Adrenal Medulla	(54)	(48)	(50)	(48)	(48)	(50)
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)

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Experiment Number: 99930-92
 Test Type: MULTIGEN CHRONIC
 Route: DOSED FEED
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P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

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

Date Report Requested: 10/22/2014
 Time Report Requested: 14:24:42
 First Dose M/F: NA / NA
 Lab: NCTR

CD Rat FEMALE	F1 0 PPM	F1 5PPM	F1 100PPM	F1 500PPM	F1 5PPM/CTL	F1 100PPM/CTL
Pituitary Gland	(54)	(50)	(50)	(49)	(49)	(50)
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						
GENERAL BODY SYSTEM						
Tissue NOS	(0)	(0)	(0)	(0)	(0)	(0)
Liposarcoma						
GENITAL SYSTEM						
Clitoral Gland	(51)	(49)	(49)	(49)	(49)	(49)
Adenoma						
Carcinoma			1 (2%)			
Fibrous Histiocytoma, Metastatic, Skin						
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%)	
Sarcoma Stromal			1 (2%)			1 (2%)
Tubulostromal Carcinoma						
Yolk Sac Carcinoma						
Oviduct	(54)	(50)	(49)	(49)	(50)	(49)
Uterus	(54)	(50)	(50)	(49)	(50)	(49)
Adenocarcinoma			1 (2%)			
Adenoma				1 (2%)		
Leiomyoma						

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Test Type: MULTIGEN CHRONIC
Route: DOSED FEED
Species/Strain: Rat/CD

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

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CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:24:42
First Dose M/F: NA / NA
Lab: NCTR

CD Rat FEMALE	F1 0 PPM	F1 5PPM	F1 100PPM	F1 500PPM	F1 5PPM/CTL	F1 100PPM/CTL
Leiomyosarcoma						
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)
Granular Cell Tumor Benign	1 (2%)					1 (2%)
Sarcoma Stromal	1 (2%)		1 (2%)			
HEMATOPOIETIC SYSTEM						
Bone Marrow	(54)	(50)	(50)	(48)	(50)	(50)
Lymph Node	(11)	(10)	(12)	(5)	(9)	(10)
Inguinal, Sarcoma, Metastatic, Skin						
Lumbar, Fibrous Histiocytoma, Metastatic, Skin						
Lumbar, Yolk Sac Carcinoma, Metastatic, Ovary						
Pancreatic, Fibrous Histiocytoma, Metastatic, Skin		1 (10%)				
Popliteal, Sarcoma, Metastatic, Skin						
Renal, Fibrous Histiocytoma, Metastatic, Skin		1 (10%)				
Renal, Yolk Sac Carcinoma, Metastatic, Ovary						
Sarcoma, Metastatic, Skin						
Lymph Node, Mandibular	(53)	(50)	(50)	(49)	(50)	(50)
Lymph Node, Mesenteric	(54)	(50)	(50)	(48)	(50)	(50)
Leiomyosarcoma, Metastatic, Intestine Small, Jejunum						
Spleen	(54)	(50)	(50)	(49)	(50)	(50)
Thymus	(50)	(43)	(43)	(44)	(47)	(47)
Sarcoma						
Thymoma 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: 99930-92
 Test Type: MULTIGEN CHRONIC
 Route: DOSED FEED
 Species/Strain: Rat/CD

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

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

Date Report Requested: 10/22/2014
 Time Report Requested: 14:24:42
 First Dose M/F: NA / NA
 Lab: NCTR

CD Rat FEMALE	F1 0 PPM	F1 5PPM	F1 100PPM	F1 500PPM	F1 5PPM/CTL	F1 100PPM/CTL
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%)				
Skin	(54)	(50)	(50)	(49)	(50)	(50)
Fibroma	1 (2%)				1 (2%)	1 (2%)
Fibrous Histiocytoma		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	(0)	(0)	(0)	(0)	(0)	(0)
Bone, Femur	(54)	(50)	(50)	(49)	(50)	(50)
Bone, Joint	(0)	(0)	(0)	(0)	(0)	(0)
Bone, Mandible	(0)	(0)	(0)	(0)	(1)	(0)
Squamous Cell Carcinoma					1 (100%)	
Bone, Tibia	(0)	(0)	(0)	(0)	(0)	(0)
Skeletal Muscle	(0)	(1)	(1)	(0)	(1)	(1)
Granulosa Cell Tumor Malignant, Metastatic, Ovary					1 (100%)	
Hemangiosarcoma			1 (100%)			
Lipoma						1 (100%)

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 Test Type: MULTIGEN CHRONIC
 Route: DOSED FEED
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P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

Test Compound: Endocrine disruptor (Genistein)
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CD Rat FEMALE	F1 0 PPM	F1 5PPM	F1 100PPM	F1 500PPM	F1 5PPM/CTL	F1 100PPM/CTL
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%)
Carcinoma, Metastatic, Pituitary Gland						
Glioma Malignant, Mixed						
Granular Cell Tumor Benign	1 (2%)			1 (2%)		
Granular Cell Tumor Malignant			1 (2%)			
Granular Cell Tumor Nos				1 (2%)		
Meningioma Malignant			1 (2%)			
RESPIRATORY SYSTEM						
Lung	(54)	(50)	(50)	(49)	(50)	(50)
Alveolar/Bronchiolar Adenoma		1 (2%)	1 (2%)		1 (2%)	
Fibrous Histiocytoma, Metastatic, Skin						
Squamous Cell Carcinoma, Metastatic, Nose				1 (2%)		
Squamous Cell Carcinoma, Metastatic, Skin						
Nose	(54)	(50)	(50)	(49)	(50)	(50)
Squamous Cell Carcinoma			1 (2%)	2 (4%)		
Trachea	(54)	(50)	(50)	(49)	(50)	(50)
SPECIAL SENSES SYSTEM						
Ear	(0)	(0)	(0)	(0)	(2)	(0)
Squamous Cell Papilloma					1 (50%)	

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Experiment Number: 99930-92
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Route: DOSED FEED
Species/Strain: Rat/CD

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

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

CD Rat FEMALE	F1 0 PPM	F1 5PPM	F1 100PPM	F1 500PPM	F1 5PPM/CTL	F1 100PPM/CTL
Eye	(32)	(32)	(31)	(26)	(33)	(37)
Harderian Gland	(30)	(34)	(30)	(25)	(33)	(36)
Squamous Cell Carcinoma, Metastatic, Nose				1 (4%)		
Lacrimal Gland	(0)	(1)	(1)	(1)	(1)	(0)
URINARY SYSTEM						
Kidney	(54)	(50)	(50)	(49)	(50)	(50)
Nephroblastoma				1 (2%)		
Renal Tubule, Adenoma						1 (2%)
Transitional Epithelial Carcinoma	1 (2%)					
Urinary Bladder	(54)	(49)	(49)	(49)	(49)	(48)
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%)					

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CD Rat FEMALE	F1 500PPM/CTL	F3 0 PPM	F3 5PPM TO CTL	F3 100PPM TO CTL	F3 500PPM TOCTL
Disposition Summary					
Animals Initially In Study	50	53	50	50	50
Early Deaths					
Moribund	18	9	9	12	13
Natural Death	9	3	2	4	6
Survivors					
Moribund		6	5	4	4
Natural Death		2	4	1	2
Terminal Sacrifice	23	33	30	29	25
Animals Examined Microscopically	50	53	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(53)	(50)	(50)	(48)
Intestine Large	(0)	(0)	(0)	(0)	(0)
Intestine Large, Cecum	(50)	(52)	(50)	(50)	(49)
Intestine Large, Colon	(50)	(53)	(50)	(50)	(49)
Leiomyosarcoma	1 (2%)				
Intestine Large, Rectum	(26)	(42)	(40)	(40)	(37)
Intestine Small	(0)	(0)	(0)	(0)	(0)
Intestine Small, Duodenum	(50)	(52)	(50)	(50)	(49)
Intestine Small, Ileum	(47)	(51)	(48)	(47)	(48)
Intestine Small, Jejunum	(49)	(51)	(49)	(49)	(48)
Adenoma					
Leiomyosarcoma			1 (2%)		
Liver	(50)	(53)	(50)	(50)	(49)
Cholangiocarcinoma			1 (2%)		
Cholangioma					
Fibrous Histiocytoma, Metastatic, Skin		1 (2%)			

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P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

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

CD Rat FEMALE	F1 500PPM/CTL	F3 0 PPM	F3 5PPM TO CTL	F3 100PPM TO CTL	F3 500PPM TOCTL
Hepatocellular Adenoma	1 (2%)			1 (2%)	
Mesentery	(2)	(0)	(1)	(1)	(0)
Lipoma					
Sarcoma					
Oral Mucosa	(0)	(1)	(0)	(1)	(1)
Sarcoma		1 (100%)			1 (100%)
Pancreas	(50)	(52)	(50)	(50)	(49)
Salivary Glands	(50)	(53)	(49)	(50)	(49)
Stomach	(0)	(0)	(1)	(0)	(0)
Stomach, Forestomach	(50)	(52)	(49)	(49)	(49)
Stomach, Glandular	(50)	(53)	(50)	(50)	(49)
Tongue	(0)	(0)	(0)	(0)	(0)
CARDIOVASCULAR SYSTEM					
Blood Vessel	(50)	(53)	(50)	(50)	(49)
Heart	(50)	(53)	(50)	(50)	(49)
Schwannoma Nos				1 (2%)	
ENDOCRINE SYSTEM					
Adrenal Cortex	(50)	(53)	(50)	(50)	(49)
Adenoma	2 (4%)		2 (4%)	1 (2%)	1 (2%)
Carcinoma					
Adrenal Medulla	(48)	(53)	(46)	(50)	(48)
Pheochromocytoma Benign		2 (4%)	1 (2%)		2 (4%)
Pheochromocytoma Complex					
Islets, Pancreatic	(50)	(52)	(50)	(50)	(49)
Adenoma	1 (2%)	1 (2%)	2 (4%)	2 (4%)	1 (2%)
Carcinoma					
Parathyroid Gland	(43)	(53)	(41)	(47)	(46)

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Experiment Number: 99930-92
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CD Rat FEMALE	F1 500PPM/CTL	F3 0 PPM	F3 5PPM TO CTL	F3 100PPM TO CTL	F3 500PPM TOCTL
Pituitary Gland	(50)	(53)	(50)	(50)	(50)
Pars Distalis, Adenoma	43 (86%)	41 (77%)	42 (84%)	42 (84%)	40 (80%)
Pars Distalis, Carcinoma	1 (2%)		1 (2%)		
Thyroid Gland	(50)	(53)	(50)	(50)	(49)
C Cell, Adenoma	1 (2%)		1 (2%)		3 (6%)
C Cell, Carcinoma	1 (2%)		1 (2%)		
Follicular Cel, Adenoma	1 (2%)				
GENERAL BODY SYSTEM					
Tissue NOS	(1)	(0)	(0)	(0)	(0)
Liposarcoma	1 (100%)				
GENITAL SYSTEM					
Clitoral Gland	(49)	(49)	(47)	(49)	(48)
Adenoma		2 (4%)		1 (2%)	
Carcinoma				1 (2%)	
Fibrous Histiocytoma, Metastatic, Skin		1 (2%)			
Squamous Cell Papilloma					
Ovary	(49)	(53)	(50)	(49)	(49)
Granulosa Cell Tumor Benign					
Granulosa Cell Tumor Malignant					
Sarcoma Stromal					
Tubulostromal Carcinoma		1 (2%)			
Yolk Sac Carcinoma					1 (2%)
Oviduct	(47)	(53)	(49)	(49)	(49)
Uterus	(50)	(53)	(50)	(50)	(49)
Adenocarcinoma		1 (2%)		1 (2%)	
Adenoma				1 (2%)	
Leiomyoma			1 (2%)		

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CD Rat FEMALE	F1 500PPM/CTL	F3 0 PPM	F3 5PPM TO CTL	F3 100PPM TO CTL	F3 500PPM TOCTL
Leiomyosarcoma	1 (2%)				
Polyp Stromal	3 (6%)	5 (9%)		5 (10%)	2 (4%)
Sarcoma Stromal				2 (4%)	
Vagina	(50)	(52)	(49)	(49)	(48)
Granular Cell Tumor Benign					
Sarcoma Stromal	1 (2%)				
HEMATOPOIETIC SYSTEM					
Bone Marrow	(50)	(53)	(50)	(50)	(49)
Lymph Node	(9)	(18)	(9)	(8)	(12)
Inguinal, Sarcoma, Metastatic, Skin		1 (6%)			
Lumbar, Fibrous Histiocytoma, Metastatic, Skin		1 (6%)			
Lumbar, Yolk Sac Carcinoma, Metastatic, Ovary					1 (8%)
Pancreatic, Fibrous Histiocytoma, Metastatic, Skin					
Popliteal, Sarcoma, Metastatic, Skin		1 (6%)			
Renal, Fibrous Histiocytoma, Metastatic, Skin					
Renal, Yolk Sac Carcinoma, Metastatic, Ovary					1 (8%)
Sarcoma, Metastatic, Skin		1 (6%)			
Lymph Node, Mandibular	(50)	(53)	(49)	(50)	(49)
Lymph Node, Mesenteric	(50)	(53)	(50)	(50)	(49)
Leiomyosarcoma, Metastatic, Intestine Small, Jejunum			1 (2%)		
Spleen	(50)	(53)	(50)	(50)	(49)
Thymus	(47)	(48)	(45)	(46)	(47)
Sarcoma		1 (2%)			
Thymoma Malignant		1 (2%)			1 (2%)

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CD Rat FEMALE	F1 500PPM/CTL	F3 0 PPM	F3 5PPM TO CTL	F3 100PPM TO CTL	F3 500PPM TOCTL
INTEGUMENTARY SYSTEM					
Mammary Gland	(50)	(53)	(49)	(50)	(50)
Adenocarcinoma	7 (14%)	5 (9%)	6 (12%)	8 (16%)	10 (20%)
Adenocarcinoma, Multiple	2 (4%)	2 (4%)	2 (4%)	2 (4%)	2 (4%)
Adenoma	1 (2%)			1 (2%)	1 (2%)
Fibroadenoma	18 (36%)	9 (17%)	9 (18%)	13 (26%)	19 (38%)
Fibroadenoma, Multiple	7 (14%)	23 (43%)	11 (22%)	20 (40%)	9 (18%)
Fibroma					
Skin	(50)	(53)	(50)	(50)	(50)
Fibroma	1 (2%)				
Fibrous Histiocytoma		1 (2%)			
Keratoacanthoma					1 (2%)
Lipoma					
Osteosarcoma	1 (2%)				
Sarcoma	1 (2%)	1 (2%)			1 (2%)
Squamous Cell Carcinoma		1 (2%)			1 (2%)
MUSCULOSKELETAL SYSTEM					
Bone	(0)	(0)	(0)	(1)	(0)
Bone, Femur	(50)	(53)	(50)	(50)	(49)
Bone, Joint	(0)	(1)	(0)	(0)	(0)
Bone, Mandible	(0)	(0)	(0)	(0)	(0)
Squamous Cell Carcinoma					
Bone, Tibia	(1)	(0)	(0)	(0)	(0)
Skeletal Muscle	(0)	(1)	(0)	(0)	(0)
Granulosa Cell Tumor Malignant, Metastatic, Ovary					
Hemangiosarcoma					
Lipoma					

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CD Rat FEMALE	F1 500PPM/CTL	F3 0 PPM	F3 5PPM TO CTL	F3 100PPM TO CTL	F3 500PPM TOCTL
Sarcoma					
NERVOUS SYSTEM					
Brain, Brain Stem	(50)	(53)	(50)	(50)	(49)
Brain, Cerebellum	(50)	(53)	(50)	(50)	(49)
Astrocytoma Malignant					
Granular Cell Tumor Benign		1 (2%)			
Brain, Cerebrum	(50)	(53)	(50)	(50)	(49)
Astrocytoma Malignant					
Carcinoma, Metastatic, Pituitary Gland					1 (2%)
Glioma Malignant, Mixed		1 (2%)			
Granular Cell Tumor Benign					1 (2%)
Granular Cell Tumor Malignant					
Granular Cell Tumor Nos					
Meningioma Malignant					
RESPIRATORY SYSTEM					
Lung	(50)	(53)	(50)	(50)	(49)
Alveolar/Bronchiolar Adenoma					
Fibrous Histiocytoma, Metastatic, Skin		1 (2%)			
Squamous Cell Carcinoma, Metastatic, Nose					
Squamous Cell Carcinoma, Metastatic, Skin					1 (2%)
Nose	(50)	(53)	(50)	(50)	(49)
Squamous Cell Carcinoma	1 (2%)	1 (2%)	1 (2%)		3 (6%)
Trachea	(50)	(53)	(50)	(50)	(49)
SPECIAL SENSES SYSTEM					
Ear	(0)	(0)	(0)	(0)	(0)
Squamous Cell Papilloma					

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CD Rat FEMALE	F1 500PPM/CTL	F3 0 PPM	F3 5PPM TO CTL	F3 100PPM TO CTL	F3 500PPM TOCTL
Eye	(28)	(43)	(41)	(40)	(38)
Harderian Gland	(26)	(43)	(40)	(40)	(38)
Squamous Cell Carcinoma, Metastatic, Nose					
Lacrimal Gland	(2)	(0)	(1)	(0)	(0)
URINARY SYSTEM					
Kidney	(50)	(53)	(50)	(50)	(49)
Nephroblastoma					
Renal Tubule, Adenoma		1 (2%)		1 (2%)	
Transitional Epithelial Carcinoma					
Urinary Bladder	(49)	(53)	(47)	(48)	(47)
SYSTEMIC LESIONS					
Multiple Organ	*(50)	*(53)	*(50)	*(50)	*(50)
Histiocytic Sarcoma					
Leukemia Granulocytic					
Leukemia Mononuclear			1 (2%)	1 (2%)	
Lymphoma Malignant					

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CD Rat FEMALE	F1 0 PPM	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	

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 Route: DOSED FEED
 Species/Strain: Rat/CD

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS
 ABRIDGED) (a)**
 Test Compound: Endocrine disruptor (Genistein)
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014
 Time Report Requested: 14:24:43
 First Dose M/F: NA / NA
 Lab: NCTR

CD Rat FEMALE	F1 500PPM/CTL	F3 0 PPM	F3 5PPM TO CTL	F3 100PPM TO CTL	F3 500PPM TOCTL
Tumor Summary for FEMALE					
Total Animals with Primary Neoplasms (b)	50	52	48	48	49
Total Primary Neoplasms	97	102	83	104	100
Total Animals with Benign Neoplasms	50	49	48	46	48
Total Benign Neoplasms	79	85	69	88	80
Total Animals with Malignant Neoplasms	15	16	12	14	17
Total Malignant Neoplasms	18	16	14	15	20
Total Animals with Metastatic Neoplasms		2	1		3
Total Metastatic Neoplasms		7	1		4
Total Animals with Malignant Neoplasms Uncertain Primary Site					
Total Animals with Neoplasms Uncertain - Benign or Malignant		1		1	
Total Uncertain Neoplasms		1		1	

**** 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