

Protocol Title	IACUC NO	Principal Investigator	Species	# Animals Approved	Pain & Distress Category 1	Special Considerations						
						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7	
Adaptation to ceramide involves AKT/FOXO regulated novel triglyceride lipases			Mouse	0	B							
				1225	C	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
				0	D							
				200	E							
Mouse and human endocrine cell proliferation and function			Mouse	0	B							
				6912	C	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
				280	D							
				0	E							
Molecular-genetic dissection of neural circuitry regulating sleep-wake cycles			Mouse	0	B							
				22844	C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
				5044	D							
				1824	E							
Neurophysiology of Sleep-Wake Control			Rat	0	B							
				1608	C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
				536	D							
				0	E							
Chemotherapy of hookworm			Hamster	0	B							
				5677	C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
				168	D							
				0	E							
Chemotherapy of intestinal nematodes			Mouse	0	B							
				7430	C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
				240	D							
				72	E							
Chemotherapy of intestinal nematodes-rat			Rat	0	B							
				1200	C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
				0	D							
				0	E							
Evaluation of distribution and efficacy of chemically modified oligonucleotides in large animal brains			Sheep	0	B							
				0	C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
				52	D							
				0	E							
			Goat	0	B							
				0	C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
				6	D							
				0	E							
An In Vivo Approach to Study the Mechanism and Pharmacokinetics of RNA Interference			Mouse	0	B							
				1594	C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
				739	D							
				0	E							

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Functions of LIM cofactors during mouse development			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				9501	C						
				0	D						
				0	E						
Testing Novel Agents in Wound Repair and Regeneration			Rat	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				0	C						
				24	D						
				0	E						
Pulmonary Immunity to Tuberculosis			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				7068	C						
				1400	D						
				0	E						
Studies in T Cell Activation			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				27744	C						
				45	D						
				0	E						
MR Signal amplification for receptor imaging			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				166	D						
				0	E						
			Rat	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				81	D						
				0	E						
Modeling of Intracranial Aneurysms and Inflammation			Rabbit	0	B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				140	D						
				0	E						
Mucosal Macrophages and Post-Infectious Inflammatory Bowel Disease (IBD)			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				3000	C						
				0	D						
				6000	E						
Investigating the effect of mutant ALS-linked proteins on neuronal function to determine biological causes of amyotrophic lateral sclerosis (ALS)			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				3082	C						
				0	D						
				1807	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
Development of Nucleic Acids Therapeutics in Transgenic Mouse Models of C9ORF72 related Amyotrophic Lateral Sclerosis			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				3679	C						
				12870	D						
				0	E						
Studies of Therapeutics for Dysferlinopathy			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				532	C						
				2358	D						
				90	E						
Development of Nucleic Acids Therapeutics in Transgenic Mouse Models of C9ORF72 related Amyotrophic Lateral Sclerosis			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				1000	D						
				0	E						
Functional and Molecular Studies in Hematopoiesis and Leukemia			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				34204	C						
				5748	D						
				0	E						
Human monoclonal antibodies in humanized mice			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				320	C						
				0	D						
				0	E						
Administration of Monoclonal Antibodies to Prevent/Treat Gastrointestinal Tract Inflammation or Infection			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				3272	C						
				488	D						
				0	E						
Therapeutic efficacy of anti-colonization factor antigen (CFA) and anti-heat labile toxin (LT) antibodies for prevention and treatment of enterotoxigenic E. coli (ETEC)			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				1260	C						
				364	D						
				672	E						
Identifying events and genetic regulators of melanoma progression			Zebrafish	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				19860	C						
				12450	D						
				0	E						
Evaluating anti-GDF6 treatment as potential therapy for advanced melanoma			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				288	C						
				0	D						
				0	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
Characterization and treatment parameters for metabolic disease.			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				3902	C						
				15704	D						
			Rat	3764	E	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	B						
				1728	C						
				0	D						
				0	E						
Signal Transduction in Metabolism and Growth			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				46518	C						
				940	D						
				300	E						
Palatability of Oral Antibiotics in Rodents			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				0	C						
				80	D						
				0	E						
Final preclinical development of AAV gene therapy for atrial fibrillation			Pig	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	C						
				77	D						
				14	E						
Integrative analysis of electrophysiology in the healed myocardial infarction scar			Pig	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	C						
				96	D						
				0	E						
Wireless Sensor for Pressure Ulcer Prevention			Rat	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				45	D						
				0	E						
Evaluation of a Post-operative Hybrid Dressing for Skin-Graft Donor Sites in a Pig Model			Pig	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				0	C						
				1	D						
				0	E						
Control of Stem Cell Growth and Differentiation in Tissue Development and Disease			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				644	C						
				3198	D						
				144	E						

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CNS gene therapy for neurodegenerative diseases			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				16014	C						
				14702	D						
			Rat	0	E	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	B						
				0	C						
				106	D						
				0	E						
				0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Feasibility and Safety Study of Delivery Strategies for Oligonucleotides and AAV-mediated CNS Gene Therapy in a Non-human Primate Model			Non-Human primate	0	C						
				24	D						
				0	E						
				0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The role of chromatin regulation in stem cell self-renewal			Mouse	1858	C						
				0	D						
				0	E						
				0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Receptor-based Drug Models in Bacterial and Viral Pathogenesis			Mouse	8295	C						
				0	D						
				19864	E						
				0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Regulation of inflammation in vitro and in vivo.			Mouse	17025	C						
				11640	D						
				29406	E						
				0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Targeting molecules that regulate prostate cancer survival in response to ionizing radiation			Mouse	60	C						
				60	D						
				0	E						
				0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Modulation of Cardiovascular Disease in Mice			Mouse	9165	C						
				2968	D						
				800	E						
				0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Gene Therapy for human alpha-1 antitrypsin-Pi*Z liver disease			Mouse	9765	C						
				664	D						
				54	E						
				0	B						

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Gene Therapy for Fatty Acid Oxidation Disorders			Mouse	8640	B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				2048	C						
				0	D						
				1448	E						
Vascular Injury, Repair, and Remodeling: The Role of Platelets and Innate Immunity in Atherothrombosis			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				6428	C						
				324	D						
				458	E						
Molecular Organization of CNS Synapses			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				6730	C						
				5900	D						
				150	E						
Using helper-free adeno-associated virus (AAV) and self-inactivating lenti virus for gene manipulation in mouse prefrontal cortex, hippocampus, ventral midbrain and nucleus accumbens			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				620	C						
				600	D						
				0	E						
Behavioral and biochemical characterization of mouse models of neuropsychiatric disorders			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				2508	C						
				688	D						
				2480	E						
Viral vector mediated gene transfer			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				14257	C						
				3294	D						
				785	E						
			Rat	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				1070	C						
				0	D						
				0	E						
Animal Models of Frontotemporal Dementia and ALS			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				2050	C						
				144	D						
				0	E						
Evaluation of AAV8 and other novel AAV vectors for hepatic F.IX gene transfer in NHPs			Macaque	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	C						
				21	D						
				0	E						

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			Rat	0	B						
				0	C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				80	D						
				0	E						
Brain/CNS transduction of novel AAV capsids in NHPs			Macaque	0	B						
				0	C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				3	D						
				0	E						
Evaluation of novel AAV vectors for retinal gene transfer in NHPs			Non-Human primate	0	B						
				0	C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				16	D						
				0	E						
Transcriptional Landscape of Innate Immune Cells			Mouse	0	B						
				320	C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				0	D						
				0	E						
Innate Immune receptors for protozoan parasites			Mouse	0	B						
				6024	C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				8556	D						
				3436	E						
Study of the influence of acute infection with Plasmodium in development of sepsis			Mouse	0	B						
				2576	C	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	D						
				1464	E						
Novel therapies for genetic disease			Mouse	0	B						
				1324	C	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	D						
				0	E						
Biological Link between Gaucher disease and Parkinsonism			Mouse	0	B						
				435	C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				0	D						
				0	E						

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Phagocyte Receptors for Lipid A			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				986	C						
				0	D						
				1260	E						
The role of Toll-like receptor signaling in the innate immune response to Plasmodium species.			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				7696	C						
				0	D						
				720	E						
Inflammasome activation in Alzheimer's disease			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				1336	C						
				0	D						
				278	E						
Training in the Treatment of Cerebral Aneurysm and Arteriovenous Malformation Model in the Pig and Rabbit			Rabbit	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				60	D						
			Pig	0	E	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	B						
				0	C						
				81	D						
Stroke Treatment in a Large Animal Model			Dog	0	E	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	B						
				182	C						
				0	D						
Image-Guided Vascular Remodeling for the Treatment of Brain Aneurysms			Rabbit	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				159	D						
			Dog	0	E	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	B						
				0	C						
				4	D						
				0	E						

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			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				200	D						
				0	E						
Mechanical Revascularization for the Treatment of Embolic Vacular Occlusion in Swine and Rabbit Models			Pig	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
					C						
				32	D						
			Rabbit	0	E	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	B						
				0	C						
				75	D						
				0	E						
Unruptured Intracranial Aneurysms: Rupture-Risk Assessment by Non-Invasive Molecular Imaging			Rabbit	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	C						
				79	D						
				0	E						
Image-Guided Endovascular Neurosurgery: High-Resolution Cerebrovascular Imaging			Pig	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				1	D						
			Rabbit	0	E	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	B						
				0	C						
				48	D						
				0	E						
Mechanical thrombectomy in of vascular occlusions			Pig	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				21	D						
				0	E						
Endovascular CSF Access: Proof-of-Concept Study			Macaque	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				6	D						
				0	E						

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Bone Erosion in Rheumatoid Arthritis (RA) and the Mechanisms of Entesial and Periosteal Bone Formation in Spondyloarthropathy			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				616	C						
				0	D						
				468	E						
Testing of novel therapeutics in large animal models of neurodegenerative disease.			Goat	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				24	D						
			Sheep	20	E	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	B						
				0	C						
				292	D						
Identifying factors that contribute to breast cancer and rare genetic diseases			Mouse	87	E	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	B						
				2509	C						
				1180	D						
Identification and validation of putative oncogenes and tumor suppressor genes using genome-wide RNA interference screening combined with tumor formation in nude mice			Mouse	0	E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	B						
				660	C						
				0	D						
Factors controlling tumor and metastasis development in mice			Mouse	0	E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	B						
				2131	C						
				649	D						
Anatomical and Functional Characterization of Chemosensory Cells			Mouse	230	E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				0	B						
				10796	C						
				0	D						
Rat models of immunity, regeneration, and infection			Rat	0	E	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	B						
				1500	C						
				6368	D						
Humanized Mouse Core			Mouse	0	E	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	B						
				22140	C						
				1000	D						
				0	E						
				0	B						
				0	C						
				0	D						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
In vivo analysis of growth control			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				22504	C						
				712	D						
				1488	E						
Optical Imaging and Photodynamic Therapy of Tumor in Mice Model			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				800	D						
				0	E						
Determining the factors that contribute to autoimmune skin disease: melanocyte destruction in vitiligo and melanoma, fibrosis in systemic sclerosis (scleroderma) and granuloma formation in sarcoidosis.			Mouse	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				4699	C						
				4462	D						
				48	E						
Rodent Models of ALS and Periodic Paralysis			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				36	C						
				1158	D						
				288	E						
Using Sarm knockout to block ischemic and traumatic axonal injury in mouse.			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				1474	C						
				216	D						
				0	E						
Trauma brain injury accelerated neurodegeneration			Mouse	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				100	C						
				480	D						
				1340	E						
Small molecules and Molecular machinery controlling nuclear hormone receptors and inflammation			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				14710	C						
				0	D						
			Rat	1950	E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	B						
				48	C						
				0	D						
				0	E						
				0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				16248	C						
				0	D						
Analysis of the effects of TCR/MHC + peptide affinity and specificity on T cell development and immune responses			Mouse	0	E						
				0	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
Chromatin Remodeling Factors in Development and Differentiation			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				576	C						
				0	D						
				0	E						
Conditional Gene Targeting Studies of Inflammation in Mice			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				8696	C						
				4378	D						
				6	E						
Collection of Syphacia pinworms from privately-owned pet mice and rats for decontamination experiments			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				30	C						
				0	D						
				0	E						
			Rat	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				30	C						
				0	D						
				0	E						
Glioma tumor formation and hydrocephalus in the brain			Mouse	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				300	C						
				360	D						
				0	E						
Ethanol Consumption and the Development of Idiopathic Normal Pressure Hydrocephalus			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				360	C						
				0	D						
				0	E						
Molecular Basis of T Cell Lineage Commitment			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				6432	C						
				600	D						
				0	E						
Costimulatory Regulation of T cell Activation			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				4242	C						
				120	D						
				0	E						
The role of Ripk1 in TNF signal transduction and Mechanism(s) of Tal1/scl-mediated Leukemogenesis			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				4191	C						
				204	D						
				942	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
			Zebrafish	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				1806	C						
				200	D						
				0	E						
Development of RNAi-based therapeutics			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				2158	C						
				2567	D						
			Rat	775	E	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	B						
				2158	C						
				2354	D						
Evaluation of distribution, efficacy, and safety of chemically modified oligonucleotides in a non-human primate model.			Non-Human primate	0	B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
					C						
				36	D						
				0	E						
UMass Mouse Phenotyping Center			Mouse	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				5100	C						
				100	D						
				5800	E						
Examining the effects of perturbing toxic metabolite pathways on the growth of cancer cells in xenograft tumors			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	C						
				506	D						
				0	E						
Conjugated nanoparticles and Prodigiosin Drug for Specific Targeting and localized Drug Delivery for Tumor Shrinkage (Treatment) of Early, Mid Stage and late Stage Xenograft Tumor of Triple Negative Breast			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				210	C						
				0	D						
				0	E						
Fluorescent Imaging of Cardiac Efflux			Guinea pig	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				180	D						
			Rat	0	E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				0	B						
				0	C						
				150	D						
				0	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
Diabetes susceptibility to Tuberculosis			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				2644	C						
				352	D						
				0	E						
Determinants of Tuberculosis Severity			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				2666	C						
				144	D						
				0	E						
Pattern Recognition Receptors in Innate and Adaptive Immunity			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				4966	C						
				408	D						
				4448	E						
Microsurgical Techniques			Rat	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				153	D						
				0	E						
Characterize the role of cytoskeletal disruption in ALS			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				2300	C						
				0	D						
				780	E						
Innate Immunity to pathogens and recognition of endogenous danger signals in sterile inflammation			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				14262	C						
					D						
				1080	E						
Translational Epigenetics: From Trisomy Silencing in vitro to New Therapeutic Frontiers			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				1050	C						
				0	D						
				0	E						
Embryonic origins of endothelial heterogeneity			Zebrafish	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				10500	C						
				9600	D						
				0	E						
Effects of persistent and non-persistent pollutants on the reproductive endocrine system			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				4380	C						
				0	D						
				0	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
The Immune Response to Fungi			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				1800	C						
				1300	D						
				3000	E						
Effect of the microbiome on tumor progression and treatment response			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				12	D						
				0	E						
Molecular Basis of Leukemogenesis			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				2540	C						
				230	D						
				3620	E						
Role of Toll-like receptors and related molecules in innate immune signaling during infection and disease			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				5639	C						
				3844	D						
				4950	E						
Investigating Mechanisms for Resistance to Plague and the Development of Novel Anti-microbials			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				784	C						
				2260	D						
				7160	E						
			Rat	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				20	C						
				40	D						
				60	E						
Evaluating specificity and efficiency of CRISPR-Gold for editing retinal genes in Ai9 mice			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				6	C						
				50	D						
				0	E						
Biodistribution and pharmacokinetics of radiolabeled agents in mice			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				1320	D						
				0	E						
Immunogenicity and Protection Efficacy of Flu DNA Vaccines			Rabbit	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	C						
				57	D						
				0	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
The immunogenicity of HIV-1 envelope glycoprotein (Env)-based vaccines with various designs			Rabbit	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	C						
				449	D						
				0	E						
Immunogenicity and innate immune responses of DNA and protein vaccines in mice			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				350	C						
				3125	D						
				0	E						
Immunogenicity of DNA vaccines			Rabbit	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	C						
				345	D						
			Mouse	0	E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	B						
				0	C						
			Guinea pig	765	D	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	E						
				0	B						
				0	C						
				65	D						
				0	E						
Epigenetic inheritance in mouse model of inflammation			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				2070	C						
				0	D						
				1575	E						
Mechanosensory Signaling in Muscle and Tumor Cells			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				2616	C						
				112	D						
				0	E						
Bivalent vaccine against Epstein-Barr virus infection using computationally determined viral epitopes			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				56	C						
				0	D						
				90	E						
Stem Cells and Immunological Tolerance			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				3918	C						
				930	D						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
Steatosis, Inflammation and Cancer in the Liver			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				12963	C						
				7768	D						
				0	E						
Hh/Gli signaling in organogenesis and tumorigenesis			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				4200	C						
				192	D						
				0	E						
Regulation of synaptic plasticity by drugs of abuse in nucleus accumbens medium spiny neurons			Mouse	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				1776	C						
				392	D						
				0	E						
Resuscitation of Warm Ischemia Damaged Livers using Machine Preservation			Rat	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				310	D						
				0	E						
Gene Silencing therapy with siRNA in DCD liver grafts during Liver Machine Preservation			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				80	D						
				0	E						
			Rat	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				60	D						
				0	E						
Pathogenicity of Streptococcus pneumoniae and host responses during natural colonization and invasive disease.			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				1324	C						
				1212	D						
				1108	E						
Mucosal Inflammation Induced by Pathogens			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				6106	C						
				2400	D						
				105	E						
Modulation of MDR1 by enteric pathogens			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				4020	C						
				0	D						
				0	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
Trafficking and Regulation of Monoamine Transporters			Rat	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				140	C						
				0	D						
			Mouse	0	E	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	B						
				721	C						
				2152	D						
				0	E						
Transcription Factors and Cell Surface Receptors in Epithelial Development and Cancer			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				1918	C						
				904	D						
				0	E						
The mechanism of colon cancer development in hypercholesterolemic mice			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				1736	C						
				970	D						
				0	E						
The effects of type 2 diabetes on wound healing in a mouse model			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				4205	C						
				1395	D						
				0	E						
Bone Marrow Derived-Stem Cells in the Treatment of Atherosclerotic Peripheral Arterial Disease in Diabetic and Hypercholesterolemic Mice			Mouse	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				4162	C						
				1638	D						
				0	E						
Role of exercise in the reduction of the incidence and severity of breast cancer in mice			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				988	C						
				580	D						
				0	E						
TET1 deficiency in hematopoietic stem cells increases the risk of atherosclerosis in mice			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				1840	C						
				40	D						
				0	E						
Improvement of Bioluminescence Imaging in vivo			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				65	C						
				422	D						
				25	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
Virus-like Particles as Vaccines			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	C						
				4560	D						
				0	E						
Mouse Model of Pulmonary Emphysema and Fibrosis			Mouse	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				2727	C						
				1324	D						
				0	E						
Gene Therapy for Amyotrophic Lateral Sclerosis			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				862	C						
				327	D						
				77	E						
TLR9 regulates Axl dependent migration of autoreactive B cells			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				1824	C						
				0	D						
				80	E						
Characterization of autistic animal models			Rat	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				152	C						
				0	D						
				112	E						
Assembly of Motile and Sensory Cilia in Vertebrates			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				15582	C						
				120	D						
				0	E						
Photoreceptor metabolism in diseases such as Retinitis Pigmentosa and Age-related Macular degeneration			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				5497	C						
				18090	D						
				0	E						
Effects of diet on epigenetic information in sperm			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				9118	C						
				170	D						
				280	E						
PROTO201900263 - B cell response at the mucosal interface			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				27564	C						
				0	D						
				0	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
Immune defenses against Neisseria gonorrhoeae			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				10068	C						
				8945	D						
				0	E						
Immunology of Infection with Streptococcus pyogenes			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				126	C						
				0	D						
				336	E						
Studying autoimmune skin diseases to identify new treatment options			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				7180	C						
				0	D						
				470	E						
Local mRNA Translation and Synaptic Plasticity			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				7729	C						
				1502	D						
				200	E						
Voltage-Gated Calcium Channel Studies using Primary Cells			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				1000	C						
				0	D						
				0	E						
Specification of Axial Development in Mammals			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				12027	C						
				161	D						
			Rat	0	E	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	B						
				0	C						
				180	D						
UMMS Transgenic Animal Modeling Core (TAMC)			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				32786	C						
				9945	D						
			Rat	0	E	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	B						
				1068	C						
				1404	D						
				0	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
Analysis of Immune Responses			Mouse	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				36450	C						
				10860	D						
				0	E						
The functional role of Alzheimer's Disease-related genes			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				3980	C						
				0	D						
				0	E						
Murine models for the study of systemic autoimmune disease			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				7323	C						
				60	D						
				1744	E						
Biodistribution and pharmacokinetics of biomarkers with detection by imaging			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				765	C						
				1200	D						
				0	E						
Small Animal Imaging Core Service Animal Protocol: PET/SPECT/CT and Optical Imaging			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				1000	D						
				0	E						
			Rat	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				300	D						
				0	E						
Evaluation of intratumor injection dispersal/diffusion			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	C						
				16	D						
				0	E						
Transcriptional Analysis of Zebrafish Hindbrain Development			Zebrafish	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				2200	C						
				0	D						
				0	E						
Tuberculosis Pathogenesis			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				7933	C						
				100	D						
				180	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7	
Adaptation to ceramide involves AKT/FOXO regulated novel triglyceride lipases			Mouse	0	B							
				1225	C	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
				0	D							
				200	E							
Mouse and human endocrine cell proliferation and function			Mouse	0	B							
				6912	C	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
				280	D							
				0	E							
Molecular-genetic dissection of neural circuitry regulating sleep-wake cycles			Mouse	0	B							
				22844	C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
				5044	D							
				1824	E							
Neurophysiology of Sleep-Wake Control			Rat	0	B							
				1608	C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
				536	D							
				0	E							
Chemotherapy of hookworm			Hamster	0	B							
				5677	C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
				168	D							
				0	E							
Chemotherapy of intestinal nematodes			Mouse	0	B							
				7430	C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
				240	D							
				72	E							
Chemotherapy of intestinal nematodes-rat			Rat	0	B							
				1200	C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
				0	D							
				0	E							
Evaluation of distribution and efficacy of chemically modified oligonucleotides in large animal brains			Sheep	0	B							
				0	C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
				52	D							
			Goat	0	E							
				0	B							
				0	C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
				6	D							
				0	E							
An In Vivo Approach to Study the Mechanism and Pharmacokinetics of RNA Interference			Mouse	0	B							
				1594	C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
				739	D							
				0	E							

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
Functions of LIM cofactors during mouse development			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				9501	C						
				0	D						
				0	E						
Testing Novel Agents in Wound Repair and Regeneration			Rat	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				0	C						
				24	D						
				0	E						
Pulmonary Immunity to Tuberculosis			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				7068	C						
				1400	D						
				0	E						
Studies in T Cell Activation			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				27744	C						
				45	D						
				0	E						
MR Signal amplification for receptor imaging			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				166	D						
				0	E						
			Rat	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				81	D						
				0	E						
Modeling of Intracranial Aneurysms and Inflammation			Rabbit	0	B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				140	D						
				0	E						
Mucosal Macrophages and Post-Infectious Inflammatory Bowel Disease (IBD)			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				3000	C						
				0	D						
				6000	E						
Investigating the effect of mutant ALS-linked proteins on neuronal function to determine biological causes of amyotrophic lateral sclerosis (ALS)			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				3082	C						
				0	D						
				1807	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
Vaccine Safety Assurance – Toxicity Testing			Guinea pig	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				1860	C						
				0	D						
			Guinea pig	0	E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	B						
				120	C						
			Mouse	0	D	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	E						
				0	B						
			Rabbit	180	C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	D						
				0	E						
			Rabbit	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				120	C						
				0	D						
			Rabbit	0	E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	B						
				120	C						
Td Toxin Level Determination – MLD Assays			Guinea pig	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	C						
				0	D						
			Guinea pig	540	E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	B						
				0	C						
				0	D						
				18	E						
Therapeutic Drug Studies in Transgenic Mouse Models of Amyotrophic Lateral Sclerosis			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				4611	C						
				14420	D						
				2037	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
Development of Nucleic Acids Therapeutics in Transgenic Mouse Models of C9ORF72 related Amyotrophic Lateral Sclerosis			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				3679	C						
				12870	D						
				0	E						
Studies of Therapeutics for Dysferlinopathy			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				532	C						
				2358	D						
				90	E						
Development of Nucleic Acids Therapeutics in Transgenic Mouse Models of C9ORF72 related Amyotrophic Lateral Sclerosis			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				1000	D						
				0	E						
Functional and Molecular Studies in Hematopoiesis and Leukemia			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				34204	C						
				5748	D						
				0	E						
Human monoclonal antibodies in humanized mice			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				320	C						
				0	D						
				0	E						
Administration of Monoclonal Antibodies to Prevent/Treat Gastrointestinal Tract Inflammation or Infection			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				3272	C						
				488	D						
				0	E						
Therapeutic efficacy of anti-colonization factor antigen (CFA) and anti-heat labile toxin (LT) antibodies for prevention and treatment of enterotoxigenic E. coli (ETEC)			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				1260	C						
				364	D						
				672	E						
Identifying events and genetic regulators of melanoma progression			Zebrafish	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				19860	C						
				12450	D						
				0	E						
Evaluating anti-GDF6 treatment as potential therapy for advanced melanoma			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				288	C						
				0	D						
				0	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
Characterization and treatment parameters for metabolic disease.			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				3902	C						
				15704	D						
				3764	E						
			Rat	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				1728	C						
				0	D						
				0	E						
Signal Transduction in Metabolism and Growth			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				46518	C						
				940	D						
				300	E						
Palatability of Oral Antibiotics in Rodents			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				0	C						
				80	D						
				0	E						
Final preclinical development of AAV gene therapy for atrial fibrillation			Pig	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	C						
				77	D						
				14	E						
Integrative analysis of electrophysiology in the healed myocardial infarction scar			Pig	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	C						
				96	D						
				0	E						
Wireless Sensor for Pressure Ulcer Prevention			Rat	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				45	D						
				0	E						
Evaluation of a Post-operative Hybrid Dressing for Skin-Graft Donor Sites in a Pig Model			Pig	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				0	C						
				1	D						
				0	E						
Control of Stem Cell Growth and Differentiation in Tissue Development and Disease			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				644	C						
				3198	D						
				144	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
CNS gene therapy for neurodegenerative diseases			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				16014	C						
				14702	D						
			Rat	0	E	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	B						
				0	C						
				106	D						
				0	E						
Feasibility and Safety Study of Delivery Strategies for Oligonucleotides and AAV-mediated CNS Gene Therapy in a Non-human Primate Model			Non-Human primate	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				24	D						
				0	E						
The role of chromatin regulation in stem cell self-renewal			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				1858	C						
				0	D						
				0	E						
Receptor-based Drug Models in Bacterial and Viral Pathogenesis			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				8295	C						
				0	D						
				19864	E						
Regulation of inflammation in vitro and in vivo.			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				17025	C						
				11640	D						
				29406	E						
Targeting molecules that regulate prostate cancer survival in response to ionizing radiation			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				60	C						
				60	D						
				0	E						
Modulation of Cardiovascular Disease in Mice			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				9165	C						
				2968	D						
				800	E						
Gene Therapy for human alpha-1 antitrypsin-Pi*Z liver disease			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				9765	C						
				664	D						
				54	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
Gene Therapy for Fatty Acid Oxidation Disorders			Mouse	8640	B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				2048	C						
				0	D						
				1448	E						
Vascular Injury, Repair, and Remodeling: The Role of Platelets and Innate Immunity in Atherothrombosis			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				6428	C						
				324	D						
				458	E						
Molecular Organization of CNS Synapses			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				6730	C						
				5900	D						
				150	E						
Using helper-free adeno-associated virus (AAV) and self-inactivating lenti virus for gene manipulation in mouse prefrontal cortex, hippocampus, ventral midbrain and nucleus accumbens			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				620	C						
				600	D						
				0	E						
Behavioral and biochemical characterization of mouse models of neuropsychiatric disorders			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				2508	C						
				688	D						
				2480	E						
Viral vector mediated gene transfer			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				14257	C						
				3294	D						
			Rat	785	E	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	B						
				1070	C						
				0	D						
Animal Models of Frontotemporal Dementia and ALS			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				2050	C						
				144	D						
				0	E						
Evaluation of AAV8 and other novel AAV vectors for hepatic FIX gene transfer in NHPs			Macaque	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	C						
				21	D						
				0	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
			Rat	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				80	D						
				0	E						
Brain/CNS transduction of novel AAV capsids in NHPs			Macaque	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				3	D						
				0	E						
Evaluation of novel AAV vectors for retinal gene transfer in NHPs			Non-Human primate	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	C						
				16	D						
				0	E						
Transcriptional Landscape of Innate Immune Cells			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				320	C						
				0	D						
				0	E						
Innate Immune receptors for protozoan parasites			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				6024	C						
				8556	D						
				3436	E						
Study of the influence of acute infection with Plasmodium in development of sepsis			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				2576	C						
				0	D						
				1464	E						
Novel therapies for genetic disease			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				1324	C						
				0	D						
				0	E						
Biological Link between Gaucher disease and Parkinsonism			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				435	C						
				0	D						
				0	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
Phagocyte Receptors for Lipid A			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				986	C						
				0	D						
				1260	E						
The role of Toll-like receptor signaling in the innate immune response to Plasmodium species.			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				7696	C						
				0	D						
				720	E						
Inflammasome activation in Alzheimer's disease			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				1336	C						
				0	D						
				278	E						
Training in the Treatment of Cerebral Aneurysm and Arteriovenous Malformation Model in the Pig and Rabbit			Rabbit	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				60	D						
			Pig	0	E	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	B						
				0	C						
				81	D						
				0	E						
Stroke Treatment in a Large Animal Model			Dog	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				182	D						
				0	E						
Image-Guided Vascular Remodeling for the Treatment of Brain Aneurysms			Rabbit	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				159	D						
			Dog	0	E	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	B						
				0	C						
				4	D						
				0	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				200	D						
				0	E						
Mechanical Revascularization for the Treatment of Embolic Vascular Occlusion in Swine and Rabbit Models			Pig	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
					C						
				32	D						
			Rabbit	0	E	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	B						
				0	C						
				75	D						
Unruptured Intracranial Aneurysms: Rupture-Risk Assessment by Non-Invasive Molecular Imaging			Rabbit	0	E	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	B						
				79	D						
				0	C						
Image-Guided Endovascular Neurosurgery: High-Resolution Cerebrovascular Imaging			Pig	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				1	D						
			Rabbit	0	E	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	B						
				0	C						
				48	D						
Mechanical thrombectomy in of vascular occlusions			Pig	0	E	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	B						
				21	D						
				0	C						
Endovascular CSF Access: Proof-of-Concept Study			Macaque	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				6	D						
				0	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
Bone Erosion in Rheumatoid Arthritis (RA) and the Mechanisms of Entesial and Periosteal Bone Formation in Spondyloarthropathy			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				616	C						
				0	D						
				468	E						
Testing of novel therapeutics in large animal models of neurodegenerative disease.			Goat	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				24	D						
			Sheep	20	E	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	B						
				0	C						
				292	D						
Identifying factors that contribute to breast cancer and rare genetic diseases			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				2509	C						
				1180	D						
				0	E						
Identification and validation of putative oncogenes and tumor suppressor genes using genome-wide RNA interference screening combined with tumor formation in nude mice			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				660	C						
				0	D						
				0	E						
Factors controlling tumor and metastasis development in mice			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				2131	C						
				649	D						
				230	E						
Anatomical and Functional Characterization of Chemosensory Cells			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				10796	C						
				0	D						
				0	E						
Rat models of immunity, regeneration, and infection			Rat	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				1500	C						
				6368	D						
				0	E						
Humanized Mouse Core			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				22140	C						
				1000	D						
				0	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
In vivo analysis of growth control			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				22504	C						
				712	D						
				1488	E						
Optical Imaging and Photodynamic Therapy of Tumor in Mice Model			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				800	D						
				0	E						
Determining the factors that contribute to autoimmune skin disease: melanocyte destruction in vitiligo and melanoma, fibrosis in systemic sclerosis (scleroderma) and granuloma formation in sarcoidosis.			Mouse	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				4699	C						
				4462	D						
				48	E						
Rodent Models of ALS and Periodic Paralysis			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				36	C						
				1158	D						
				288	E						
Using Sarm knockout to block ischemic and traumatic axonal injury in mouse.			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				1474	C						
				216	D						
				0	E						
Trauma brain injury accelerated neurodegeneration			Mouse	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				100	C						
				480	D						
				1340	E						
Small molecules and Molecular machinery controlling nuclear hormone receptors and inflammation			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				14710	C						
				0	D						
			Rat	1950	E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	B						
				48	C						
				0	D						
Analysis of the effects of TCR/MHC + peptide affinity and specificity on T cell development and immune responses			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				16248	C						
				0	D						
				0	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NC 7
Chromatin Remodeling Factors in Development and Differentiation			Mouse	0	B						
				576	C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				0	D						
				0	E						
Conditional Gene Targeting Studies of Inflammation in Mice			Mouse	0	B						
				8696	C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				4378	D						
				6	E						
Collection of Syphacia pinworms from privately-owned pet mice and rats for decontamination experiments			Mouse	0	B						
				30	C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	D						
			Rat	0	E						
				0	B						
				30	C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	D						
Glioma tumor formation and hydrocephalus in the brain			Mouse	0	B						
				300	C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				360	D						
				0	E						
Ethanol Consumption and the Development of Idiopathic Normal Pressure Hydrocephalus			Mouse	0	B						
				360	C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				0	D						
				0	E						
Molecular Basis of T Cell Lineage Commitment			Mouse	0	B						
				6432	C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				600	D						
				0	E						
Costimulatory Regulation of T cell Activation			Mouse	0	B						
				4242	C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				120	D						
				0	E						
The role of Ripk1 in TNF signal transduction and Mechanism(s) of Tal1/scl-mediated Leukemogenesis			Mouse	0	B						
				4191	C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				204	D						
				942	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
			Zebrafish	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				1806	C						
				200	D						
				0	E						
Development of RNAi-based therapeutics			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				2158	C						
				2567	D						
			Rat	775	E	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	B						
				2158	C						
				2354	D						
				0	E						
Evaluation of distribution, efficacy, and safety of chemically modified oligonucleotides in a non-human primate model.			Non-Human primate	0	B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
					C						
				36	D						
				0	E						
UMass Mouse Phenotyping Center			Mouse	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				5100	C						
				100	D						
				5800	E						
Examining the effects of perturbing toxic metabolite pathways on the growth of cancer cells in xenograft tumors			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	C						
				506	D						
				0	E						
Conjugated nanoparticles and Prodigiosin Drug for Specific Targeting and localized Drug Delivery for Tumor Shrinkage (Treatment) of Early, Mid Stage and late Stage Xenograft Tumor of Triple Negative Breast			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				210	C						
				0	D						
				0	E						
Fluorescent Imaging of Cardiac Efflux			Guinea pig	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				180	D						
			Rat	0	E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				0	B						
				0	C						
				150	D						
				0	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
Diabetes susceptibility to Tuberculosis			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				2644	C						
				352	D						
				0	E						
Determinants of Tuberculosis Severity			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				2666	C						
				144	D						
				0	E						
Pattern Recognition Receptors in Innate and Adaptive Immunity			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				4966	C						
				408	D						
				4448	E						
Microsurgical Techniques			Rat	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				153	D						
				0	E						
Characterize the role of cytoskeletal disruption in ALS			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				2300	C						
				0	D						
				780	E						
Innate Immunity to pathogens and recognition of endogenous danger signals in sterile inflammation			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				14262	C						
					D						
				1080	E						
Translational Epigenetics: From Trisomy Silencing in vitro to New Therapeutic Frontiers			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				1050	C						
				0	D						
				0	E						
Embryonic origins of endothelial heterogeneity			Zebrafish	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				10500	C						
				9600	D						
				0	E						
Effects of persistent and non-persistent pollutants on the reproductive endocrine system			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				4380	C						
				0	D						
				0	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
The Immune Response to Fungi			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				1800	C						
				1300	D						
				3000	E						
Effect of the microbiome on tumor progression and treatment response			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				12	D						
				0	E						
Molecular Basis of Leukemogenesis			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				2540	C						
				230	D						
				3620	E						
Role of Toll-like receptors and related molecules in innate immune signaling during infection and disease			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				5639	C						
				3844	D						
				4950	E						
Investigating Mechanisms for Resistance to Plague and the Development of Novel Anti-microbials			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				784	C						
				2260	D						
				7160	E						
			Rat	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				20	C						
				40	D						
				60	E						
Evaluating specificity and efficiency of CRISPR-Gold for editing retinal genes in Ai9 mice			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				6	C						
				50	D						
				0	E						
Biodistribution and pharmacokinetics of radiolabeled agents in mice			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				1320	D						
				0	E						
Immunogenicity and Protection Efficacy of Flu DNA Vaccines			Rabbit	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	C						
				57	D						
				0	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
The immunogenicity of HIV-1 envelope glycoprotein (Env)-based vaccines with various designs			Rabbit	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	C						
				449	D						
				0	E						
Immunogenicity and innate immune responses of DNA and protein vaccines in mice			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				350	C						
				3125	D						
				0	E						
Immunogenicity of DNA vaccines			Rabbit	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	C						
				345	D						
			Mouse	0	E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	B						
				0	C						
			Guinea pig	765	D	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	E						
				0	B						
				0	C						
				65	D						
				0	E						
Epigenetic inheritance in mouse model of inflammation			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				2070	C						
				0	D						
				1575	E						
Mechanosensory Signaling in Muscle and Tumor Cells			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				2616	C						
				112	D						
				0	E						
Bivalent vaccine against Epstein-Barr virus infection using computationally determined viral epitopes			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				56	C						
				0	D						
				90	E						
Stem Cells and Immunological Tolerance			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				3918	C						
				930	D						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
Steatosis, Inflammation and Cancer in the Liver			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				12963	C						
				7768	D						
				0	E						
Hh/Gli signaling in organogenesis and tumorigenesis			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				4200	C						
				192	D						
				0	E						
Regulation of synaptic plasticity by drugs of abuse in nucleus accumbens medium spiny neurons			Mouse	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				1776	C						
				392	D						
				0	E						
Resuscitation of Warm Ischemia Damaged Livers using Machine Preservation			Rat	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				310	D						
				0	E						
Gene Silencing therapy with siRNA in DCD liver grafts during Liver Machine Preservation			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				80	D						
				0	E						
			Rat	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				60	D						
				0	E						
Pathogenicity of Streptococcus pneumoniae and host responses during natural colonization and invasive disease.			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				1324	C						
				1212	D						
				1108	E						
Mucosal Inflammation Induced by Pathogens			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				6106	C						
				2400	D						
				105	E						
Modulation of MDR1 by enteric pathogens			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				4020	C						
				0	D						
				0	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
Trafficking and Regulation of Monoamine Transporters			Rat	0	B						
				140	C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	D						
				0	E						
			Mouse	0	B						
				721	C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				2152	D						
				0	E						
Transcription Factors and Cell Surface Receptors in Epithelial Development and Cancer			Mouse	0	B						
				1918	C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				904	D						
				0	E						
The mechanism of colon cancer development in hypercholesterolemic mice			Mouse	0	B						
				1736	C	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				970	D						
				0	E						
The effects of type 2 diabetes on wound healing in a mouse model			Mouse	0	B						
				4205	C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				1395	D						
				0	E						
Bone Marrow Derived-Stem Cells in the Treatment of Atherosclerotic Peripheral Arterial Disease in Diabetic and Hypercholesterolemic Mice			Mouse	0	B						
				4162	C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				1638	D						
				0	E						
Role of exercise in the reduction of the incidence and severity of breast cancer in mice			Mouse	0	B						
				988	C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				580	D						
				0	E						
TET1 deficiency in hematopoietic stem cells increases the risk of atherosclerosis in mice			Mouse	0	B						
				1840	C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				40	D						
				0	E						
Improvement of Bioluminescence Imaging in vivo			Mouse	0	B						
				65	C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				422	D						
				25	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
Virus-like Particles as Vaccines			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	C						
				4560	D						
				0	E						
Mouse Model of Pulmonary Emphysema and Fibrosis			Mouse	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				2727	C						
				1324	D						
				0	E						
Gene Therapy for Amyotrophic Lateral Sclerosis			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				862	C						
				327	D						
				77	E						
TLR9 regulates Axl dependent migration of autoreactive B cells			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				1824	C						
				0	D						
				80	E						
Characterization of autistic animal models			Rat	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				152	C						
				0	D						
				112	E						
Assembly of Motile and Sensory Cilia in Vertebrates			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				15582	C						
				120	D						
				0	E						
Photoreceptor metabolism in diseases such as Retinitis Pigmentosa and Age-related Macular degeneration			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				5497	C						
				18090	D						
				0	E						
Effects of diet on epigenetic information in sperm			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				9118	C						
				170	D						
				280	E						
PROTO201900263 - B cell response at the mucosal interface			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				27564	C						
				0	D						
				0	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCNA 7
Immune defenses against Neisseria gonorrhoeae			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				10068	C						
				8945	D						
				0	E						
Immunology of Infection with Streptococcus pyogenes			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				126	C						
				0	D						
				336	E						
Studying autoimmune skin diseases to identify new treatment options			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				7180	C						
				0	D						
				470	E						
Local mRNA Translation and Synaptic Plasticity			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				7729	C						
				1502	D						
				200	E						
Voltage-Gated Calcium Channel Studies using Primary Cells			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				1000	C						
				0	D						
				0	E						
Specification of Axial Development in Mammals			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				12027	C						
				161	D						
				0	E						
			Rat	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	C						
				180	D						
				0	E						
UMMS Transgenic Animal Modeling Core (TAMC)			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				32786	C						
				9945	D						
				0	E						
			Rat	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				1068	C						
				1404	D						
				0	E						

Protocol Title	IACUC No	Principal Investigator	Species	# Animals Approved	Pain & Distress Category 1	Special Considerations					
						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
Analysis of Immune Responses			Mouse	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				36450	C						
				10860	D						
				0	E						
The functional role of Alzheimer's Disease-related genes			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				3980	C						
				0	D						
				0	E						
Murine models for the study of systemic autoimmune disease			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				7323	C						
				60	D						
				1744	E						
Biodistribution and pharmacokinetics of biomarkers with detection by imaging			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				765	C						
				1200	D						
				0	E						
Small Animal Imaging Core Service Animal Protocol: PET/SPECT/CT and Optical Imaging			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				1000	D						
				0	E						
			Rat	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				300	D						
				0	E						
Evaluation of intratumor injection dispersal/diffusion			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				0	C						
				16	D						
				0	E						
Transcriptional Analysis of Zebrafish Hindbrain Development			Zebrafish	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				2200	C						
				0	D						
				0	E						
Tuberculosis Pathogenesis			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				7933	C						
				100	D						
				180	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
Tuberculosis Pathogenesis			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				348	C						
				20	D						
				0	E						
Neuron-glia interactions regulating nervous system development and plasticity			Mouse	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				5814	C						
				6726	D						
				546	E						
			Rat	0	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				648	C						
				0	D						
				0	E						
Regulation of B cell function			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				1800	C						
				0	D						
				0	E						
DNA breaks in B lymphocytes			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				1372	C						
				0	D						
				0	E						
Immunology of Virus Infections			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				4700	C						
				0	D						
				300	E						
Mechanisms of Breast Cancer Metastasis			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				2340	C						
				5918	D						
				0	E						
Departmental Procedure for the Adoption of Animals from the Facility			Dog	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				0	C						
				20	D						
				0	E						
			Cat	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				0	C						
				20	D						
				0	E						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
Departmental Procedure for the Adoption of Animals from the Facility			Sheep	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				0	C						
				20	D						
			Goat	0	E	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				0	B						
				0	C						
			Macaque	20	D	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				0	E						
				0	B						
			Mouse	0	C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				0	B						
				0	C						
			Rat	20	D	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				0	E						
				0	B						
			Rabbit	0	C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				0	B						
				0	C						
			Hamster	14	D	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				0	E						
				0	B						
			Guinea pig	0	C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				0	B						
				0	C						
			Frog	50	D	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				0	E						
				0	B						
				28	C						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
Evaluation of tail maturation for distal tail biopsy methodology in male and female rat pups.			Rat	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				17	C						
				48	D						
				0	E						
Understanding key regulators in skeletal homeostasis and development			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				6602	C						
				3233	D						
				1782	E						
Preclinical evaluation of targeted therapies for neuroblastoma			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				100	C						
				948	D						
				0	E						
Innate Immune receptors and transport proteins for Leishmania parasites and bacterial cell wall components			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				1292	C						
				180	D						
				8772	E						
			Hamster	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				36	C						
				0	D						
				0	E						
Flow Cytometric Analysis of Erythropoiesis			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				4974	C						
				150	D						
				0	E						
Synthetic bone grafts expediting the repair of skeletal defects			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				462	C						
				3075	D						
				0	E						
			Rat	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				10	C						
				1244	D						
				0	E						
Live small animal imaging using Scanco VivaCT75 scanner			Rat	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				500	D						

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						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
Implant surface modification strategies against periprosthetic infections			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				370	D						
				380	E						
			Rat	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				370	D						
				380	E						
Biodegradable synthetic materials for regenerative medicine applications			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				397	D						
				0	E						
Antigen Presentation and T Cell Recognition of MHC Proteins			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				4620	C						
				2348	D						
				0	E						
Leukemogenic and developmental roles for t(1;22)-associated gene products			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				2564	C						
				0	D						
				0	E						
The Immune Response of T Cells			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				7702	C						
				4620	D						
				1800	E						
Fatty liver, alcohol and hepatotoxicity			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				53826	C						
				17787	D						
				0	E						
Immunomodulation in Hepatocellular Carcinoma			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				592	C						
				0	D						
				0	E						
Animal model for HCV - human liver tissue/hepatocytes infected by HCV in chimeric mice			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				1154	D						
				700	E						

Protocol Title	IACUC No	Principal Investigator	Species	# Animals Approved	Pain & Distress Category 1	Special Considerations					
						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
The Role of the Reward and Withdrawal Pathways of Mouse Brains in Drug Addiction, Self-Administration, and Withdrawal			Mouse	0	B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				6468	C						
				6106	D						
				3540	E						
Regulation of cardiac development by chromatin modifying enzymes			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				4770	C						
				0	D						
				0	E						
PPARs and co-regulators in energy metabolism			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				4535	C						
				400	D						
				520	E						
Monoclonal Antibody Development			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				990	C						
				0	D						
				0	E						
Immunogenicity of novel DNA and subunit-based vaccines against HIV			Rabbit	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				265	C						
				0	D						
				0	E						
			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				480	C						
				0	D						
				0	E						
Animal Models of Virus-Induced Diabetes			Rat	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				216	C						
				726	D						
				591	E						
Development of RNA-based therapeutics			Mouse	0	B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				15000	C						
				10500	D						
				300	E						
			Rat	0	B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				400	C						
				0	D						
				0	E						

Protocol Title	IACUC No	Principal Investigator	Species	# Animals Approved	Pain & Distress Category 1	Special Considerations					
						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
Maintenance and Investigation of ATX2-deficient mice			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				212	C						
				680	D						
				0	E						
Generation and Validation of a Tissue-specific Circadian Reporter Mouse			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				1157	C						
				87	D						
				0	E						
Flagellar Motility and Assembly			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				830	C						
				80	D						
				0	E						
Novel programmable nuclease architectures for reverse genetic approaches in zebrafish			Zebrafish	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				1440	C						
				10000	D						
				0	E						
Production of Human/Mouse Xenochimeras			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				870	C						
				0	D						
				0	E						
Transgenic mouse models for neurodegenerative diseases			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				1700	C						
				300	D						
				150	E						
Developing models and treatment of amyotrophic lateral sclerosis			Mouse	644	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				149	C						
				110	D						
				713	E						
Identification and validation of cancer genes using mouse models			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				2600	C						
				700	D						
				100	E						
Rat models of diabetes and related complications			Rat	0	B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				1500	C						
				6296	D						
				0	E						

Protocol Title	IACUC No	Principal Investigator	Species	# Animals Approved	Pain & Distress Category 1	Special Considerations					
						SS 2	MSS 3	FFR 4	PR 5	HAU 6	NCA 7
			Rat	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				15	C						
				0	D						
				0	E						
Tumorigenic Potential of Genetically Manipulated Mice			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				3920	C						
				150	D						
				0	E						
Molecular Genetic studies of senescence in tumor suppression and aging			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				6220	C						
				450	D						
				0	E						
Integration of radiosensitization and anti-STAT3 nanotechnologies for treatment of head and neck cancer			Mouse	0	B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	C						
				130	D						
				0	E						
Ca ²⁺ signaling, ion channels and G-protein coupled receptors			Mouse	0	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				3450	C						
				177	D						
			Guinea pig	0	E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	B						
				80	C						
			Rat	0	D	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				0	E						
				0	B						
				80	C						
				0	D						
				0	E						

(1) If applicable, please provide a description / definition of any pain/distress classification used within this Appendix in the space below. If pain/distress categories are not used, leave blank.

(2) Survival Surgery (SS)

(3) Multiple Survival Surgery (MSS)

(4) Food or Fluid Regulation (FFR)

(5) Prolonged Restraint (PR)

(6) Hazardous Agent Use (HAU)