

### Awards FY2023

PI	Direct Sponsor	Title	2023
<b>Amos Landgraf,James Michael</b>	NIH OFFICE OF THE DIRECTOR	Feasibility of large-scale oocyte cryobanking of C57BL/6N mice and the influence of donor microbiome on recovery and genomic stability	453,269
<b>Amos Landgraf,James Michael</b>	NIH OFFICE OF THE DIRECTOR	The Mutant Mouse Resource and Research Center at the University of Missouri - Year 24	1,491,163
<b>Anderson,Deborah Mae</b>	ALBANY MED COLLEGE	Yersinia Outer-Membrane-Vesicle Vaccines Against Pneumonic Plague	118,765
<b>Anderson,Paul Ervin</b>	NIH NATL INST OF MENTAL HEALTH	Improvements to the Regional Biocontainment Research Facilities at the University of Missouri	2,340,729
<b>Balne,Praveen Kumar</b>	NIH NATL EYE INST	Hydrogen sulfide toxicity to the cornea	194,495
<b>Bowles,Douglas K</b>	NIH NATL HEART LUNG AND BLOOD INST	Cell-specific role and therapeutic potential of KCa3.1 in atherosclerosis	556,773
<b>Bryan,Jeffrey N</b>	EARLI INC	EARLlpaws-05CT	225,167
<b>Bryan,Jeffrey N</b>	EDGE ANIMAL HEALTH	Analysis of renal biopsies by University of Missouri, College of Veterinary Medicine	15,317
<b>Bryda,Elizabeth A</b>	NIH OFFICE OF THE DIRECTOR	Characterization of a new ACE2 rat model with susceptibility to SARS-CoV-2	241,421
<b>Bryda,Elizabeth A</b>	NIH OFFICE OF THE DIRECTOR	Rat Resource and Research Center - Year 23	1,287,122
<b>Carlisle,Gretchen K</b>	HUMAN ANIMAL BOND RESEARCH INST	Impact of Service Dogs on the Psychosocial Well-being of Children with ASD, their Parents and their Families	48,125
<b>Chu,Shirley</b>	MORRIS ANIMAL FNDDTN	Phase 1/2 clinical trial evaluating tolerability, efficacy and immune modulation with spatially fractionated lattice stereotactic radiation therapy in feline oral squamous cell carcinoma	100,000
<b>Chu,Shirley</b>	PETDX INC	Cancer Lifetime Assessment Screening Study in Canines	104,733
<b>Coates,Joan Ripley</b>	AKC CANINE HEALTH FNDDTN	Riluzole as a Neuroprotectant for Canine Degenerative Myelopathy	205,317
<b>Donnelly,Lindsay Lee</b>	OH ST UNIV	Probiotic Bladder Cancer Trial - Probiome Trial	108,032
<b>Emter,Craig Allen</b>	REGENCOR INC	REGENCOR SRA 2022-23	869,928
<b>Ericsson,Aaron C</b>	CTR FOR DISCOVERY	Gut and Intratumoral Microbiome Effects on Neoadjuvant Chemotherapy-Induced Immunosurveillance in Triple Negative Breast Cancer	7,798
<b>Ericsson,Aaron C</b>	MORRIS ANIMAL FNDDTN	Microbiome Health in Captive Wyoming Toads for Wild Release	5,000
<b>Evans,Timothy</b>	PURDUE UNIV	See Us-Be Us: Inspiring future veterinarians using a Veterinary STEM Ecosystem	1,500
<b>Franklin,Craig Lawrence</b>	MORRIS ANIMAL FNDDTN	Characterization of Serpentine Fecal Microbiota	5,500
<b>Franz,Alexander W E</b>	NIH NATL INST OF ALLERGY AND INFECTIOUS	How Do Arboviruses Escape the Mosquito Midgut?- Analysis of a Novel Mechanism	382,698
<b>Franz,Alexander W E</b>	NIH NATL INST OF ALLERGY AND INFECTIOUS	Optimization of low-threshold Cas9-based gene drive systems to introduce Zika virus resistance in Aedes aegypti	537,024
<b>Ganta,Roman Reddy</b>	DEPT OF AG	NSTP FY23: Investigating tick-borne rickettsial diseases impacting agricultural animals in the USA and globally.	231,443

<b>Hasser,Eileen Mary</b>	NIH NATL HEART LUNG AND BLOOD INST	Plasticity of nTS output neurons in acute and chronic hypoxia	350,149
<b>Kline II,David D</b>	NIH NATL HEART LUNG AND BLOOD INST	GABA signaling in the nTS and cardiorespiratory responses to hypoxia	703,447
<b>Kline II,David D</b>	NIH NATL HEART LUNG AND BLOOD INST	Plasticity of nTS output neurons in acute and chronic hypoxia	350,149
<b>Lorson,Christian Lawrence</b>	HOWARD HUGHES MEDN INST	James H. Gilliam, Jr. Fellowships for Advanced Study Science Education - Sara Ricardez Hernandez	53,000
<b>Lorson,Christian Lawrence</b>	NIH NATL INST OF NEUROLOGICAL DISORDER	Novel SMARD1 Mouse Models: Characterization and Evaluation of Potential Therapeutic Targets	347,706
<b>Lyons,Leslie A</b>	EVERYCAT HEALTH FNDR	Development of a new whole exome capture array for cat disease and cancer studies.	35,000
<b>Lyons,Leslie A</b>	UNIV OF CA SANTA BARBARA	Ketosis as a therapy for polycystic kidney disease	59,586
<b>Mohan,Rajiv Ravindra</b>	MED COLLEGE OF WI	Subcontract: Role of S100 proteins in Diabetic Retinopathy	59,377
<b>Mohan,Rajiv Ravindra</b>	NIH NATL EYE INST	Late/chronic corneal injury following threat chemical exposure	465,287
<b>Mohan,Rajiv Ravindra</b>	NIH NATL EYE INST	Novel approaches for corneal haze/fibrosis elimination	374,541
<b>Mohan,Rajiv Ravindra</b>	NIH NATL EYE INST	Turbo Eye Drops to Treat Ocular Toxicity and Blindness from Sulfur Mustard	740,416
<b>Nichols,Nicole L</b>	NIH NATL HEART LUNG AND BLOOD INST	Harnessing tongue exercise to enhance neuroplasticity and preserve upper airway function in a novel model of hypoglossal motor neuron degeneration	529,090
<b>Olson,Rachel Marie</b>	HAFION INC	SBIR: Formulation of a prophylactic vaccine against Pseudomonas aeruginosa	98,472
<b>Picking,Wendy Lynn</b>	NIH NATL INST OF ALLERGY AND INFECTIOUS	A prophylactic vaccine to prevent colonization by Pseudomonas aeruginosa (R01AI169781)	800,748
<b>Picking,Wendy Lynn</b>	NIH NATL INST OF ALLERGY AND INFECTIOUS	A vaccine specifically targeting T3SS-negative Pseudomonas aeruginosa	195,625
<b>Picking,Wendy Lynn</b>	NIH NATL INST OF ALLERGY AND INFECTIOUS	Targeting T3SA proteins as protective antigens against Yersinia	231,360
<b>Picking,Wendy Lynn</b>	NIH NATL INST OF ALLERGY AND INFECTIOUS	Vaccines to counter emerging antibiotic resistance	1,258,174
<b>Picking,William Daniel</b>	UNIV OF MD	Adjuvant development of the TLR4 ligand BECC438	332,700
<b>Picking,William Daniel</b>	KS ST UNIV	Discovery of Hsp100-selective Inhibitors for Targeting Multiple Microbial Pathogens	175,001
<b>Raghavan,Ram Kumar</b>	NIH NATL INST OF ALLERGY AND INFECTIOUS	Characterization of assembly and activation of the Shigella type III secretion injectisome	630,893
<b>Raghavan,Ram Kumar</b>	DEPT OF DEFENSE	Protection of Military Working Dogs from Kissing Bugs using Pyrethroid Impregnated Barriers for the Prevention of Chagas Disease	511,348
<b>Reeves,Lauren Amanda</b>	MIDWESTERN UNIV	Diagnostic performance of computed tomography to detect gallbladder rupture in dogs with gallbladder mucocele undergoing cholecystectomy	2,010
<b>Reinero,Carol Rose</b>	AKC CANINE HEALTH FNDR	Comparison of Sedated Respiratory-Gated Computed Tomography (CT) to Anesthetized Inspiratory:Expiratory Breath Hold CT in Dogs	49,680

<b>Routh,Brayden Leigh</b>	AMER COLLEGE OF VET OPHTHALMOLOGISTS	Evaluation of a novel ophthalmic formulation for the treatment of corneal fibrosis	5,000
<b>Shen,Zhenyu</b>	FOOD AND DRUG ADMN	Development of Metagenomic RNA-Seq Standard Operating Procedure for Variant-agnostic Whole Genome Sequencing of SARS-CoV-2 isolates from Animal Samples	97,564
<b>Singh,Kamlendra</b>	EMORY UNIV	Ultrapotent Inhibitors of Wild-type and Multi-drug Resistant HIV	31,000
<b>Skyberg,Jerod Alan</b>	NIH NATL INST OF ALLERGY AND INFECTIOUS	B Cell/T Cell Interactions in Brucellosis	383,900
<b>Skyberg,Jerod Alan</b>	NIH NATL INST OF ALLERGY AND INFECTIOUS	B Cell/T Cell Interactions in Brucellosis (Supplement)	186,396
<b>Wiggen,Kelly Elizabeth</b>	AMER COLLEGE OF VET INTERNAL MEDICINE	Effect of nonionic contrast media on invasive pressure measurements during minimally invasive occlusion of patent ductus arteriosus and balloon valvuloplasty for valvular pulmonic stenosis	8,060
<b>Zhang,Shuping</b>	DEPT OF AG	NAHLN Level 1 Lab - Maintaining and Further Improving Capacity and Capabilities	250,000
<b>Zhang,Shuping</b>	OK ST UNIV	Increasing capacity to handle surge samples through online submissions and elimination of the manual sample data entry step in the laboratory	41,968