

# Program in Comparative Animal Biology (PICAB)

## 2024 Awardees

“Establishing Bendamustine Preconditioning for Adoptive Cellular Therapy in Canine Cancer Patients”  
Mathew John Atherton, Assistant Professor of Immuno-oncology, SVM  
Joseph A Fraietta, Assistant Professor of Microbiology, PSOM

“Molecular Architecture in SPATA7 Ciliopathy”  
Valerie L. Dufour, DVM, Assistant Professor of Translational Ophthalmology, SVM  
Tomas S. Aleman, MD, Given Professor of Ophthalmology, PSOM

## 2023 Awardees

“A Canine Model to Study Mast Cell Activation in Inflammatory Bowel Disease”  
Elizabeth M. Lennon, DVM, PhD, Assistant Professor of Medicine, SVM  
Nicole Maloney Belle, MD, PhD, Assistant Professor of Medicine, PSOM

“Cathepsin-Activated Near-Infrared Imaging for Intraoperative Detection of Oral Squamous Cell Carcinomas”  
Maureen A. Griffin, DVM, Assistant Professor of Surgical Oncology, SVM  
Karthik Rajasekaran, MD, Assistant Professor of Otorhinolaryngology, PSOM

## 2022 Awardees

“Modeling COVID-19 Comorbidities with Novel Humanized ACE2 Mice”  
Andrew E. Vaughan, PhD, Assistant Professor of Biomedical Sciences, SVM  
Doris A. Stoffers, MD, PhD, Professor of Medicine, PSOM

“Evaluation of Free Ranging Deer as a Reservoir for SARS-Cov-2”  
Roderick B. Gagne, PhD, Assistant Professor of Wildlife Ecology, SVM  
Susan R. Weiss, PhD, Professor of Microbiology, PSOM

## 2021 Awardees

“SARS-CoV-2 Spillover Infection in Cats: Assessment of Viral Infection Efficiency and Selection Pressures in Feline Intestinal Organoids”  
Elizabeth M. Lennon, DVM, PhD, Assistant Professor of Medicine, SVM  
Susan R. Weiss, PhD, Professor of Microbiology, PSOM

“Investigating Red Cell Reservoirs to Detect Emerging Pathogens in Mammalian Hosts”  
Julie C. Ellis, PhD, Adjunct Associate Professor of Pathobiology, SVM  
Nilam S. Mangalmurti, MD, Assistant Professor of medicine, PSOM

## 2020 Awardees

“Ebola Virus VP40-Induced Ocular Pathology and Treatment”  
Ronald N. Harty, PhD, Professor of Microbiology, SVM  
Donggeun Huh, Assistant Professor of Bioengineering, PSOM

“A High-Throughput Screen to Identify Metabolic Modulators of Intestinal Innate Immune Signaling During Infection”  
Daniel P. Beiting, PhD, Assistant Professor of Parasitology, SVM  
Sara Cherry, PhD, Professor of Microbiology, PSOM

## 2019 Awardees

“IL13R $\alpha$ 2-Targeting Chimeric Antigen Receptor T Cell Therapy in the Canine Patient as a Proof-of-Concept for Human Trials”  
Nicola J. Mason, BVetMed, PhD, Professor of Medicine, SVM  
Donald M. O'Rourke, MD, Professor of Neurosurgery, PSOM

“Development of a Clinically Relevant Swine Tumor Model Through Genetic Modification of Porcine Lymphohematopoietic Cancers”

Raimon Duran-Struuck, DVM, PhD, Associate Professor Laboratory Animal Medicine, SVM  
James L. Riley, PhD, Professor of Oncology, PSOM

### **2018 Awardees**

“Antigen-Specific Immunotherapy of Myasthenia Gravis in Domestic Dogs – A Pilot Study”

Oliver Garden, BVetMed, PhD, Bower Professor of Medicine, SVM  
Eric Lancaster, MD, PhD, Assistant Professor of Neurology, PSOM

“Personalized Diagnostics of Canine Lymphoma”

Amy Durham, VMD, Assoc Professor of Pathobiology, SVM  
David Roth, MD, PhD, Professor of Pathology and Laboratory Medicine, PSOM

### **2017 Awardees**

“Using Comparative Genomics to Direct Immune Targeting of Shared Neo-Epitopes to Prevent Metastatic Sarcoma”

Nicola Mason, DVM, PhD, Associate Professor of Medicine, SVM  
David Roth, MD, PhD, Professor of Pathology and Laboratory Medicine, PSOM

“Cell-Based Therapy to Target B Cells Within the Central Nervous System; A Pilot Study in Canine Neuroinflammatory Disorder”

Jorge Alvarez, PhD, Asst Professor of Pathobiology, SVM  
Amit Bar-Or, MD, President’s Distinguished Professor, PSOM

### **2016 Awardees**

“Cell-Based Therapy for Seizures by Transplantation of Human Stem Cell Derived Inhibitory Interneurons Modified for Rapid Maturation, A Feasibility Study in Dog Pups”

Charles Vite, DVM, PhD, Associate Professor of Neurology, SVM  
Stewart Anderson, MD, Associate Professor of Psychiatry, PSOM

### **2015 Awardees**

“Novel Variants of Procoagulant Factors Using Protein and Gene Therapy for Privately Owned Dogs with Hemophilia”

Mary Beth Callan, VMD, Professor of Medicine, SVM  
Valder Arruda, MD, PhD, Associate Professor of Pediatrics, PSOM