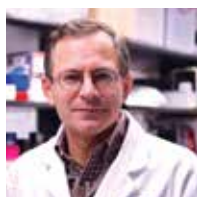




ANGUERA



BELTRAN

## GRANTS

**Gustavo Aguirre, VMD, PhD:** \$163,389 for Molecular Genetic Studies of Inherited Cataracts in the American Cocker Spaniel from American Spaniel Club Health & Rescue Foundation (1/1/18-12/31/21)

**Montserrat Anguera, PhD:** \$2,611,414 for Gene regulation from the inactive X in activated B cells from NIH RO1 AI134834 (6/2018–5/2023); \$524,590.19 for Role for abnormal gene expression from the inactive X in female-biased lupus disease from USAMRAA (DOD) Impact Award (September 2018 - August 2021); \$314,945 for Gene regulation from the inactive X in activated B cells from NIH/NIAID (7/2018–5/2019); \$50,000 for Role of X-chromosome Inactivation maintenance on the microbiome during autoimmunity from University Research Foundation (URF) (9/2018–8/2019) (Project collaborator: **Michael Atchison, PhD**)

**Michael Atchison, PhD:** \$1,051,361 to support VMD-PhD training in infectious disease related research from NIH T32AI070077 (5 years); \$616,120 for veterinary students to perform short-term research projects from NIH T35OD010919 (5 years); \$20,000 for veterinary students to perform short-term research projects from Boehringer Ingelheim (one year)

**William Beltran, DVM, PhD:** \$2,887,683 for Gene therapy for treatment of rhodopsin-mediated autosomal-dominant Retinitis Pigmentosa (adRP) from OPTHOTECH (6/1/18–5/31/2021)

**Andres Blanco, PhD:** \$21,047 for Screen for FDA-approved inhibitors that synergize with GSK-LSD1 to induce therapeutic differentiation in non-APL acute myeloid leukemia from McCabe Fund Pilot Grant (8/1/18–7/31/19)

**Igor Brodsky, PhD:** \$442,750 for Novel role of CARD19 in cell death and anti-bacterial host defense from NIH R21 (6/8/18–5/31/20); \$6,000 for Lab Retreat Travel from Burroughs Wellcome Fund (5/1/18–9/30/18)

**Margret Casal, DVM, PhD:** \$12,960 for Microphthalmia and Delayed Growth Syndrome in the Portuguese Water Dog from AKC-Canine Health Foundation (11/1/17–10/31/19)

**Rumela Chakrabarti, PhD:** \$170,000 for Understanding function of Notch signaling in Tamoxifen resistant breast cancer from Abramson Cancer Center-Emerson Collective Cancer Research Fund (2018–2019, 2 year grant)

**Amy Durham, VMD:** \$329,185 for Aperio VERSA Digital Slide Scanner, eSlide Manager Database, and Advanced Image Analysis Software for the Comparative Pathology Core from NIH S10OD023465 (05/01/2018–04/30/2019) (Project collaborators: **Bruce Freedman, VMD, PhD, Enrico Radaelli, DVM, PhD, Gordon Ruthel, PhD**); \$45,000 for Institutional Clinical and Translational Science Award from National Center for Advancing Translational Sciences/NIH (2/1/18–1/31/19)

**Bruce Freedman, VMD, PhD:** \$275,000 for The Membrane Repair Channel TRPML1 Regulates Ebola Virus Budding from NIH/NIAID R21 (12/21/17–11/30/19)

**Serge Fuchs, PhD:** \$193,764 for Negative regulation of myeloid-derived suppressive cells in cancer from NIH R01/ Wistar (12/18/17–11/30/18)

**Oliver Garden, BVetMed, PhD:** \$14,945 for The impact of intravenous anesthetic agents on canine natural killer cell cytotoxic function: the Achilles heel in cancer diagnosis and surgery? from AKC-CHF (1/1/18–12/31/18) (Collaborator: **Ciara Barr, VMD**); \$50,000 for The intestinal



## TEACHING AWARDS

(Top) Dr. Courtney Pope, internal medicine resident, received the William B. Boucher Award, which honors a house officer for excellent teaching at New Bolton Center. The award is made in honor of Dr. William Boucher, a distinguished educator at Penn Vet for over four decades. (Above) Dr. Klaus Hopster, assistant professor of anesthesiology, was awarded the Zoetis Distinguished Veterinary Teacher Award, accepted on his behalf by his wife. The award is the most prestigious teaching award in veterinary medicine, presented annually to a faculty member at each college of veterinary medicine in the United States. The entire Penn Vet student body votes for the recipient.



DURHAM



PITTA

microbiome of dogs with idiopathic immune-mediated hemolytic anemia: an occult trigger for pathogenic autoimmunity? from Center for Host-Microbial Interactions PILOT (6/1/2018-5/31/19)

**Ronald Harty, PhD:** \$275,000 for Dueling PPxY Motifs of Filovirus VP40 and Host Angiomotin: Effects on Innate Immune Defenses and Tight Junction Integrity at Immune Privileged Sites. from NIH/NIAID R21-AI139392 (6/3/18-5/31/20); \$275,000 for Modular Domains of Host Proteins Regulate Filovirus Maturation. from NIH/NIAID R21 AI-138052 (1/15/18-12/31/20); \$300,000 for Development of Small Molecule Therapeutics Targeting Hemorrhagic Fever Viruses. from NIH/NIAID R41 STTR AI138630 (6/1/18-5/31/20); \$682,000 for Development

of Host-Oriented Therapeutics Against Hemorrhagic Fever Viruses from The Wellcome Trust (2/10/18- 2/9/20); \$45,000 for Regulation of Tight Junction

Integrity by Ebola Virus VP40 from University Research Foundation (3/1/18-2/28/19); \$50,000 for Development of Small Molecule Therapeutics Targeting Hemorrhagic Fever Viruses from Fox Chase Chemical Diversity Center (6/1/18-5/31/19)

**De'Broski Herbert, PhD:** \$6,000 for 22nd Annual Woods Hole Immunoparasitology (WHIP) Meeting from Burroughs Wellcome Fund (3/1/18-8/31/18)

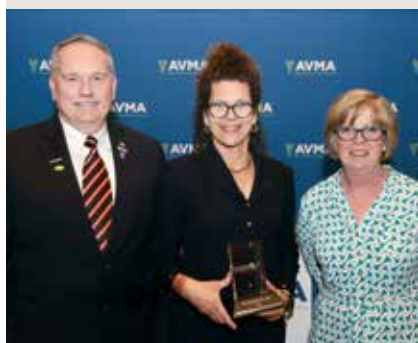
**Anna Kashina, PhD:** \$513,453 for Protein Arginylation as a Key Regulator of Cell Migration from NIH/GM R35 (8/31/18-8/31/2022); \$50,633 for Development

of Arginine Linkage-Specific Antibodies from Abzyme Therapeutics, LLC (11/27/17-08/31/18)

**Christopher Lengner, PhD:** \$21,955 for Developing novel immunotherapy for metastatic colorectal cancer from Institutional Clinical and Translational Science Award (ITMAT) (2/1/18-1/31/19)

**James Marx, DVM, PhD:** \$5,000 for 2018 ASLAP Foundation Summer Fellowship Program from American Society for Laboratory Animal Practitioners (6/1/18-8/31/18)

**Nicola Mason, BVetMed, PhD:** \$297,300 for Preserving Cancer Stem Cells In Canine Blood Specimens from Leidos Biomedical research Inc. (12/1/17-6/30/18); \$183,146 for Immune Targeting of the V600E



## DR. CYNTHIA OTTO RECOGNIZED FOR WORK TO ADVANCE HUMAN-ANIMAL BOND

At its 2018 annual conference, the American Veterinary Medical Association (AVMA) presented Dr. Cynthia Otto, founder and executive director of the Penn Vet Working Dog Center, with the 2018 Bustad Companion Animal Veterinarian of the Year Award.

"The commitment and passion Dr. Otto has shown in her day-to-day work that explores and supports relationships between working dogs and their owners shows how highly she values the connections that exist between people and the animals with which we share our planet," said Dr. Michael J. Topper, AVMA President.

Otto has been practicing veterinary medicine for more than 30 years and is double board certified in veterinary emergency and critical care and veterinary sports medicine and rehabilitation. Through the Working Dog Center, she has made substantive contributions to fundamental and clinical research on working and performance dogs.

Named in honor of the late Leo K. Bustad, an internationally recognized pioneer in the field of human-animal interactions, the Bustad Award is presented to an AVMA member veterinarian in recognition of their outstanding work in preserving and protecting the human-animal bond.



SCHAER



SILVERSTEIN



VITE

B-Raf neo-Antigen in Canine Urothelial Carcinoma from AKC Canine Health Foundation (2/1/18-1/31/20); \$86,400 for Precision Medicine for Canine Lymphoma from AKC Canine Health Foundation (3/1/18-2/29/20) (Project collaborator:

**Amy Durham, VMD**; \$300,000 for Clinical Advancement of CAR T cell therapy for dogs with B cell malignancies from Petco Foundation Pet Cancer Support (4/1/18-3/31/20); \$250,000 for Evaluation of constitutive canonical NF- $\kappa$ B activity as the Achilles Heal of Soft Tissue Sarcoma — Funds will support a pilot clinical trial using local administration of an NF- $\kappa$ B inhibitor in dogs with soft tissue sarcomas — from Abramson Cancer Center Pilot (7/1/18-6/30/19) (Project collaborator:

**Karin Eisinger, PhD**, Perelman School of Medicine)

**Sue McDonnell, PhD**: \$34,748 for Reproductive Behavior and Physiology of Horses from Dorothy Russell Havemeyer FDN (11/1/17-10/31/18)

**Keiko Miyadera, DVM, PhD**: \$60,775 for AAV Gene Therapy for Muscular and Ocular Diseases from UNC Chapel Hill/Tamid Bio, Inc. (2/1/18-11/30/18); \$48,687 for Safe and Effective Therapy for Vision Loss in MPS1 Patients from UNC Chapel Hill/MPS Society (7/1/17-6/30/18)

**Olivia Nathanson, VMD**: \$13,978 for Evaluation of procedural & maintenance data when esophagostomy tubes are used for nutritional support during acute and chronic illness and identify risk factors for short and long term complications from Nestle Purina (4/1/18-3/31/19) (Project collaborator: **Dana Clarke, VMD**)

**Thomas Parsons, VMD, PhD**: \$72,509 for Impact of duration of farrowing crate closure on sow welfare and piglet mortality from National Pork Board (12/1/17-11/30/18)

**Dipti Pitta, PhD**: \$72,719 for Influence of Valkalor AL 881 on Milk Production

in Holstein Cows from Idena (10/1/17-9/30/18); \$499,739 for Deciphering the crosstalk between bacteria – archaea interactions in the rumen and methane-yield phenotype of dairy cows from USDA NIFA (1/1/2018-12/31/20); \$86,091 for The effects of 3-nitrooxypropional (3NOP), a persistent methane inhibitor, on ruminal microbial gene expression profiles in dairy cows from DSM Nutritional Products AG (12/15/17-6/15/19)

**Laurel Redding, VMD, PhD**: \$23,450 for Clostridium difficile in canine fecal samples from Center for Host-Microbial Interactions PILOT and additional \$29,478.24 from PennCHOP Microbiome Program Pilot and Feasibility Award (1 year)

**Adam Sateriale, PhD**: \$216,000 (for the first phase of program) for Investigation of subtelomeric gene families in Cryptosporidium from NIH K99 (5/5/18-4/30/20) (Mentor: Boris Striepen, PhD)

**Thomas Schaer, VMD**: \$144,940 for Synovial Fluid and Joint Sepsis from NIH RO1 (with Thomas Jefferson University) (08/01/17 - 05/31/18); \$135,056 for A Translational Approach Towards Ligament Regeneration from NIH/NIAMSK (with University of Connecticut Health Center) (5/1/18 - 1/31/19)

**Deborah Silverstein, DVM**: \$37,500 for a videomicroscope that visualizes and enables assessment of the microcirculation and endothelial glycocalyx from a private donor; \$7,271 for Method Comparison and Precision Study Evaluation of the NOVA StatSensor®; and the StatSensor® Xpress™ Hand Held Creatinine Monitor in Dogs from NOVA Biomedical (4/1/18 - 3/31/19)

**Carlo Siracusa, DVM, PhD**: \$29,940 for Sileo (dexmedetomidine oromucosal gel) for Veterinary Visit Anxiety In Dogs: a randomized, doubleblind, placebo controlled pilot study from Zoetis (12/6/17-12/5/18)

**Boris Striepen, PhD**: \$200,535 for Forward Genetic Technology for Cryptosporidium from Bill and Melinda Gates Foundation (6/1/17-5/31/18)

**Andrew Vaughan, PhD**: \$30,000 for Transcriptional programming by Notch controls regenerative outcomes following influenza injury from Center for Host-Microbial Interactions PILOT (6/1/18-5/31/19)

**Charles Vite, DVM, PhD**: \$807,263 for Creation of Feline NPC2 Using CRISPR/Cas9 genome editing from Leidos Biomedical Research Inc. (9/25/17-8/31/18); \$397,503 for BioMarin MPSIIIA research project from BioMarin Pharmaceuticals Inc. (12/6/17-12/31/18)

**Susan Volk, VMD, PhD**: \$442,750 for Type III Collagen as a suppressor of breast cancer progression and metastasis from NIH/NCI: 1R21CA216552-01 (7/2017-6/2019); \$162,700 for Tumor permissive collagen signatures in canine mammary gland tumors: Development of Prognostic markers and targeted Therapies for Improved Outcomes from AKC Canine Health Foundation (3/1/18 to 2/29/20)

**Brittany Watson, VMD, PhD**: \$15,000 for Student Ambassador Program from Petsmart Charities (9/1/17-9/1/18); \$10,000 for Second Annual Shelter Medicine Educator Meeting from Petsmart Charities (10/1/17-12/31/17); \$50,000 for Maddie's Shelter Medicine Internship Grant from Maddie's Fund - The Pet Rescue Foundation (7/1/18-8/31/19)

**Meghan Wynosky-Dolf, PhD**: \$25,000 for Institutional Clinical and Translational Science Award from National Center for Advancing Translational Sciences/NIH (2/1/18-1/31/19) (Participating lab: **Igor Brodsky, PhD**)