



Spring 2016

### Grants

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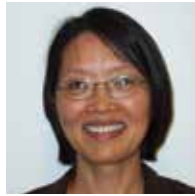
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## GRANTS

**Gary Althouse, DVM, PhD**, received a one-year, \$10,253 grant from Merck Animal Health for the ReproPig Continuing Education Course.

**Tracy Bale, PhD**, received a \$1,731,398 NIH/NIMH grant for *Paternal Stress epigenetic programming of offspring neurodevelopment (Ro1)*. The grant spans from August 1, 2015, to May 31, 2020.

**Daniel Beiting, PhD**, received a two-year, \$200,000 grant from the Margaret Q. Landenberger Research Foundation for *The role of the microbiome in treatment and remission of inflammatory bowel disease*. The grant spans from July 1, 2015, to June 30, 2017.

**Ashley Boyle, DVM**, received a one-year, \$15,000 Annual Advancement in Equine Research Award from Boehringer Ingelheim for *Validation of a point of care self-heating, microfluidic cartridge for isothermal nucleic acid amplification of Streptococcus equi subspecies equi*. Project collaborators include Penn Vet's **Shelley Rankin, PhD**, and **Haim Bau, PhD**, Professor of Mechanical Engineering and Applied Mechanics in Penn's School of Engineering and Applied Science.

**Allison Bradbury**, a Postdoctoral Research Fellow in the lab of **Charles Vite, DVM, PhD**, received a grant of \$216,000 (direct) from The Legacy of Angels Foundation for *Lentiviral-mediated Hematopoietic Stem Cell Gene Therapy for Canine Globoid Cell Leukodystrophy*. The grant spans from 2015 to 2018. She also

received an F32 grant from NIH for \$142,796, also spanning from 2015 to 2018.

**Dorothy Cimino Brown, DVM**, received a one-year, \$318,669 grant from Regeneus Ltd. The study, which commenced last November, will assess pain and dysfunction in 80 client-owned dogs with osteoarthritis. Dogs will be treated with CryoShot Canine, a proprietary "off-the-shelf" allogeneic stem cell therapy, via intra-articular injection, or a control, and will be assessed by validated questionnaires and force-plate analysis. The results of the trial will be used to finalize the design of a pivotal U.S. Food and Drug Administration (FDA) trial.

**Zhengxia Dou, PhD**, received a one-year, \$44,930 grant from the University Research Foundation for *Household food waste composition and recovery assessment*.

**David Galligan, VMD, MBA**, and faculty in the Center for Animal Health and Productivity received a three-year, \$339,750 China Research and Engagement Fund grant from the Office of the Provost. The grant is for the project *Improving the productive and health efficiency of the Chinese Dairy Industry*. The project will focus on developing an integrated training program for upper level dairy managers over a three-year period of time with three specific focus areas: (Year 1) Nutritional Production Efficiency; (Year 2) Reproductive Efficiency; (Year 3) Animal Health and Milk Quality. Each focus area will be addressed by a three-day

## OBITUARIES

**Kathleen Lundy Dunn** passed away peacefully in Austin, Texas, on October 9, 2015. Kathleen was a psychiatric social worker at Penn Vet and helped countless clients get through difficult times. The grief support group she founded was recognized as the first of its kind in a university veterinary teaching hospital and provided emotional support for clients of Ryan Hospital as well as clients of other veterinarians. She also brought her beloved dogs to cheer patients at Ronald McDonald House and area cancer centers.

**Joseph James McGrane, Jr.**, passed away peacefully on November 22, 2015, at his residence in Palmyra, New Jersey, surrounded by his family. Born in Philadelphia, Joe had just celebrated his 70th birthday. Joe was employed for 52 years as a lab technician in the Department of Pathobiology at Ryan Hospital. Memorial contributions may be made to Esophageal Cancer Awareness, P.O. Box 55071 #15530, Boston, MA 02205.



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## GRANTS, CONT'D

training seminar at the Wharton China Center in Beijing, covering key production indices for upper management. Additionally, a five-day training program will be provided each year at New Bolton Center. Project collaborators include **James Ferguson, VMD**, and **Zhengxia Dou, PhD**.

**Karina Guzewicz, PhD**, received a two-year, \$959,074 grant from the Foundation Fighting Blindness for *Leading the collaboration as PD/PI AAV-mediated therapy for Best Vitelliform Macular Dystrophy*.

**David Holt, BVSc**, received the \$30,000 Mari Lowe Pilot Award for *Near-Infrared Imaging of Spontaneous Canine Tumors Accurately Delineates Tumor Margins and Detects Lymph Node Metastases*. The award spans from July 1, 2015, through May 31, 2016.

**Christopher Hunter, PhD**, received a \$1,125,000 NIH/NIAID grant for *Immunopathogenesis of Toxoplasma encephalitis (Ro1)*. The grant spans from September 2, 2015, to February 29, 2020.

**Leszek Kubin, PhD**, Research Professor of Physiology in the Department of Biomedical Sciences, was awarded a four-year research grant by the National Heart, Lung, and Blood Institute of the National Institutes of Health, for \$1,000,000 total direct cost. Beginning May 1, 2015, the award will support another four years of the research program entitled *Premotor Control of Upper Airway and REM Sleep Atonia* that Kubin initiated in the department 23 years ago. This segment of the project will use transgenic rodent models and the technique of optogenetics to selectively stimulate the neurons in the brain that produce the neuromodulator norepinephrine. The goal is to determine whether activation of these neurons can help maintain the airway open during sleep. As such, the study will explore whether activation of norepinephrine-containing neurons can ameliorate sleep-disordered breathing in patients with the obstructive sleep apnea syndrome.

**Christopher Lengner, PhD**, received the \$30,000 Mari Lowe Pilot Award for *Identifying markers for the prospective isolation of quiescent stem cells*. The award spans from July 1, 2015, through May 31, 2016.

**Carolina Lopez, PhD**, received a two-year NIH R21 AI109472 grant to study innate immune response to influenza virus infection. The grant is for \$250,000 total direct cost.

**Michael May, PhD**, received a \$269,501 NIH/NHLBI grant for *Targeting NF- $\kappa$ B in Atherosclerosis (R56)*. The grant spans from September 15, 2015, to August 31, 2016.

**Cynthia Otto, DVM, PhD**, received a \$11,340 grant from AKC-CHF to fund the 15th year of monitoring the health and behavior of the search and rescue dogs that responded to 9/11. There are two surviving responders and one control. The grant spans from December 1, 2015, through November 30, 2016.

**Alexander Reiter, Dr med vet, Dipl. Tzt.**, received a \$9,000 grant from the Center for Human Appearance (CHA) for *Craniofacial disfigurement from a One Health perspective*. The grant spans from 2015-2016, and project collaborators include **Maria Soltero-Rivera, DVM**, and **Diana Sweeney**, parent liaison in the Division of Plastic Surgery at The Children's Hospital of Philadelphia.

**Deborah Silverstein, DVM**, received a \$5,000 grant from Frankie's Friends for *Comparison of Two Methods of Blood Sampling and Two Anesthetics on Extended Database Values*. The grant spans from August 1, 2015, to July 31, 2017.

**Regina Turner, VMD, PhD**, received a one-year, \$84,000 grant from Irvine Scientific for *Evaluation & Optimization of Media for In Vitro Maturation (IVM) of Mammalian Oocytes and Culture Media for Embryos*. She is collaborating with **Victor Absalón-Medina**, Director of New Bolton Center's Large Animal Gamete & Embryo Manipulation Laboratory.

**Charles Vite, DVM, PhD**, received a two-year, \$100,000 grant from the Ara Parseghian Medical Research Foundation to study *Postsymptomatic cyclodextrin therapy*. He also received a five-year, \$791,300 grant from Biomarin for *Intrathecal recombinant GALC administration to treat canine Krabbe disease*. Additionally, he received a one-year, \$38,013 grant from Biomarin for a 26-week or longer *Intracerebroventricular (ICV) Infusion Study of BMN 250 Administered Biweekly in a Canine Model of Mucopolysaccharidosis type IIIB (MPS IIIB)*.