



### **VPRF/ACVIM Granting Process History**

In 2007, VPRF formed a strategic partnership with the American College of Veterinary Internal Medicine Foundation (ACVIMF) to solicit, review, and administer research grants with a pharmacologic focus. The first call for proposals went out in November 2009. Investigators were encouraged to submit proposals that focused on research to evaluate the safety and effectiveness of therapies for veterinary species, explore new drug therapies for animals, develop and validate models of animal diseases or conditions, or ensure that a safe food supply is not compromised by drug therapy. As this grant was a partnership between veterinary internists and VPRF, collaborations between pharmacologists and Diplomates of ACVIM were strongly encouraged.

#### **2010 Grant**

The first call for proposals yielded over 30 high quality research proposals for evaluation by the scientific review committee. The first VPRF grant was awarded in June 2010 to Drs. Kenneth Simpson, Melanie Craven, and Belgin Dogan from Cornell University for the development of a novel amikacin delivery method for treatment of E. coli associated with Granulomatous Colitis of Boxer dogs. The researchers received approximately \$18,000 for this important work.

#### **2011**

In 2011, 12 high quality veterinary pharmacology research proposals were submitted. In November of 2011, a grant of nearly \$18,000 was awarded to Drs. Butch KuKanich and Kate KuKanich from Kansas State University for a study to determine the effect of CYP inhibition on tramadol disposition and pharmacological effects in dogs.

#### **2012**

In 2012, a total of 20 high quality veterinary pharmacology research proposals were received. Of these, two proposals were selected for funding. Drs. Chen Gilor and Christopher Adin of the Veterinary Clinical Sciences Department at the Ohio State University received approximately \$16,000 in funding for evaluating Exenatide extended release in cats. Approximately \$4000 was awarded to Drs. Jennifer Myers, Janice Bright, Christopher Orton, Daniel Gustafson and Christine Swardson Olver from the College of Veterinary Medicine & Biomedical Sciences, Colorado State University for evaluation of the pharmacokinetics and pharmacodynamics of Apibaxin in cats. These researchers also received additional funding from ACVIMF for this work.

#### **2013**

In 2013, there were 13 high quality grant proposals for evaluation by the scientific review committee. The 2013 Grant was awarded to Drs. Dawn Boothe and Jacqueline Gimmler from the Auburn College of Veterinary Medicine for work to establish terbinafine doses for treatment of canine Malassezia infection. This project was co-

funded from the American College of Veterinary Dermatology and the investigators received approximately \$14,500 from VPRF.

#### **2014**

In 2014, there were 19 high quality grant proposals for evaluation by the scientific review committee. The 2014 Grant was awarded to Dr. Lauren Trepanier of the University of Wisconsin-Madison School of Veterinary Medicine for work to investigate the genetic risk for cyclophosphamide toxicity in dogs. The investigator received approximately \$17,500 from VPRF.

#### **2015**

In 2015, there were 25 high quality grant proposals for evaluation by the scientific review committee. This was a landmark year for VPRF as the organization awarded three grants:

- Dr. Sofia Cerdá-González from Cornell University received approximately \$12,700 from VPRF for work to investigate the efficacy of maropitant (Cerenia®) as an adjunct analgesic in dogs.
- Dr. Andrew Mackin from Mississippi State University received approximately \$18,000 from VPRF for the pharmacodynamic evaluation of mycophenolate in the dog.
- Drs. M. Katherine Tolbert and Shelly Olin from the University of Tennessee received approximately \$15,140 from VPRF for a project to evaluate whether acid suppressants are indicated in cats with chronic kidney disease.

#### **2016**

In 2016, there were 39 high quality grant proposals for evaluation by the scientific review committee. This was a record number of submissions and the foundation selected two grants for funding:

- Dr. Claire Fellman from Tufts University received \$26,223 in funding for the Pharmacokinetic/Pharmacodynamic Assessment of Differential Responses to Cyclosporine in Atopic Dogs.
- Dr. Katrina R. Viviano, from University of Wisconsin-Madison received \$19,280 in funding for a project to evaluate C-Reactive Protein as a Therapeutic Biomarker for Canine Aspiration Pneumonia.

#### **2017**

In 2017, there were 52 high quality grant proposals for evaluation by the scientific review committee. This was a record number of submissions and the foundation selected one pharmacokinetic grant and one pharmacology grant for funding

- Dr. Derek Foster received nearly \$30,000 for the Veterinary Pharmacology Research Grant. This work entailed the continuous sampling of the bovine udder by ultrafiltration to assess the pharmacokinetics and pharmacodynamics of intramammary ceftiofur.
- Dr. Duncan X. Lascelles received nearly \$15,000 for the Veterinary Pharmacokinetic Research Grant. Dr. Lascelles' research focuses on the pharmacokinetics of gabapentin in cats by three routes of administration.

## 2018

In 2018, there were 49 high quality grant proposals for evaluation by the scientific review committee. The foundation selected two pharmacokinetic grants and one pharmacology grant for funding

- Dr. Lauren Trepanier, professor and assistant dean of clinical and translational research at the University of Wisconsin-Madison School of Veterinary Medicine, was the recipient of the Veterinary Pharmacology Research Grant of nearly \$12,000 for work to discover why individual dogs respond differently to the drugs azathioprine, cyclophosphamide, cisplatin, lomustine, amiodarone and chlorambucil.

The 2018 pharmacokinetic grant was named in honor of Dr. Brian Riviere who was the son of Dr. Jim Riviere, Emeritus Professor at North Carolina State University and Kansas State University, one of the pioneers in veterinary pharmacokinetics. His son Brian, was a pharmacist who died suddenly on June 28, 2017, at age 30, due to health complications. Because of their shared interest for pharmacology, the Veterinary Pharmacology Research Foundation has named this research award in honor and memory of Jim's son Brian.

- Dr. John Thomason, associate professor of small animal internal medicine in the Department of Clinical Sciences at Mississippi State College of Veterinary Medicine received nearly \$15,000 for research on population pharmacokinetics of subcutaneous enoxaparin in hypercoagulable dogs.
- Dr. Jonathan Foster, internist, Dialysis, Internal Medicine at Friendship Hospital for Animals in Washington, D.C., who was awarded nearly \$12,000 for a research on the population pharmacokinetic analysis of enrofloxacin and its active metabolite ciprofloxacin following intravenous injection in cats with reduced kidney function.

## 2019

In 2019, there were 30 high quality grant proposals for evaluation by the scientific review committee. The foundation selected two pharmacokinetic grants and one pharmacology grant for funding

- Dr. Kara Lascola, associate professor of equine internal medicine, department of clinical sciences at Auburn University's College of Veterinary Medicine, received the 2019 Veterinary Pharmacokinetic Research Grant. Dr. Lascola's proposal focused on the evaluation of the pharmacokinetics of nebulized glycopyrrolate administered to asthmatic horses.
- Dr. Monique Pairis-Garcia, associate professor of global production animal welfare, department of population health and pathobiology at North

Carolina State University's College of Veterinary Medicine received the 2019 Veterinary Pharmacology Research Grant. Dr. Pairis-Garcia's research aims to identify practical pharmaceutical approaches to mitigate castration pain on commercial swine farms.

To date, VPRF has funded nearly \$300,000 in research funding and has evaluated 289 proposals and awarded 18 veterinary pharmacology research grants with 10 funded for dogs, 5 for cats, and 1 each for horses, swine and dairy cattle.