Colorado State University

Knowledge to Go Places

CALL FOR PROPOSALS

Center for Companion Animal Studies
PVM Student Research Grants-2011

The Center for Companion Animal Studies currently has approximately $50,000 in pledges to support companion animal research that involves PVM students. These monies were given by a number of corporate sponsors, including Bayer Animal Health, Boehringer-Ingelheim, HESKA Corporation, Hill's Pet Nutrition-SCAVMA, IDEXX Laboratories, Merial Limited, Nestle Purina Pet Care, Proctor and Gamble PetCare, Pfizer Animal Health, Novartis Animal Health, Intervet-Schering Plough, International Veterinary Seminars, and Veterinary Centers of America.

The donations are unrestricted and so any research project is potentially fundable. Each proposal should include a PVM student as a co-investigator; it is expected that this person will be the primary author or coauthor on any resultant publication. **Priority points are assigned to proposals on which the PVM student participated as an author.** Proposals from interns, residents, or graduate students in the Department of Clinical Sciences can be accepted, but must include a faculty sponsor. Proposals from PVM students with a faculty sponsor from other CVMBS departments are acceptable but projects with clinical application will receive priority consideration.

Proposals are due to Dr. Michael R. Lappin (mlappin@colostate.edu) **by 5 pm, Monday, March 7, 2011** and must be submitted electronically as an email attachment. The grant should be written in Word and converted to a PDF to preserve your formatting and then emailed. Dr. Lappin will acknowledge receipt of all grants by return email. **If you have not received a confirmation email by 8 am March 9, contact Dr. Lappin immediately by email or cell phone (481 8586).** The grant review committee anticipates announcing the funded projects by March 14, 2011 so that you can factor the results of this funding into your potential College Research Council grant budgets that are due on March 21, 2010.

Grants up to $5,000 will be considered for funding. **Preference will be given to clinical research projects that can be completed while the participating PVM student is still a student at CSU and for which the results are likely to publishable at least as a scientific abstract at CVMBS Research Day, 2012.** Use of research animals is acceptable but priority consideration will be given to projects that do not require euthanasia.

Please use the following instructions in the preparation of your proposal. Use 1 inch margins, single-spaced, with Times New Roman 12 point font throughout. **Proposals that do not conform will have points deducted in the proposal ranking formula.**

1. Title page listing the authors, degrees, and current positions, contact information for the principal investigator, and a scientific abstract (250 words maximum).

2. Summary of the proposal (2 pages maximum)
   a. Introduction and importance
   b. Hypotheses and objectives
   c. Experimental design including methods of analysis
   d. Proposed time line
   e. Publication and future funding plan (if applicable)

3. Budget and justification (1 page maximum). Describe the source of shared funding if applicable. **The total budget can exceed $5,000 but please explain clearly where the difference over $5,000 will be funded (faculty start up funds etc.)** If you are planning to submit a College Research Council proposal on March 21, please state how this funding would relate to that proposal. Please be detailed in your budget. It is acceptable to use the budget to support your student's salary or travel for the student to pick up clinical samples etc.

4. References (no page limitation).

5. Description of the planned PVM student role (1 page maximum). **Please indicate in this section whether the student was involved in the development of the research idea and was involved in writing the grant.** Grants that do not have a PVM student identified at time of submission are acceptable. Dr. Lappin maintains a list of students that are interested in clinical research and so please contact Dr. Lappin if you are in search of a student.

6. Final report on your 2009 and 2010 PVM student grants, if applicable (1 page maximum). **If any author of your proposal was on a funded grant either year, you must provide a report.** If the previous work lead to a publication (CVMBS Research Day abstract, other scientific abstract, or manuscript), please provide the citing. If you used the results as pilot data in the submission of a larger internal or external grant, please describe.

7. If client-owned animals are to be used, please provide a copy of your client-consent form. A standard operating procedure for client consent forms can be found at the following webpage: http://www.cvmbs.colostate.edu/clinsci/academic_resources.htm.

After the grants to be funded have been selected, appropriate Colorado State University approvals must be obtained. For each of the funded projects, a final report is due 1 year after grants are awarded. It is the responsibility of the faculty sponsor to make sure the final reports are submitted. Submitted or published abstracts or manuscripts should be included. If your previous study has not been completed, please provide an updated time line and publication plan.

If you have questions, please contact Dr. Michael R. Lappin at the email address above, at 297-0313, or at 481 8586 (cell). Jennifer Hawley (297 4026; jrhawley@colostate.edu) will help me manage the grants and likely can be of assistance as well.

The following are the titles of projects supported by this grant program in 2009 and 2010.

Center for Companion Animal Studies
Funded PVM Student Grants -2010

	Authors	**Title**
1	Allweiler Sandra, Rosychuk R, Conetta M	Regional analgesia of the pinna, ear canal and soft tissues in dogs undergoing deep ear canal debridement.
2	Boscan Pedro, Marquez M, Twedt DC, Monnet E, Weir H	Visceral pain analgesia with the use of the NK-1 receptor antagonist maropitant for spay surgeries in dogs.
3	Campbell V, Ireland L, Monnet E.	Determination of volume to be infused for intra-abdominal pressure measurement in dogs.
4	Dowers Kristy, Sonius C	Sensitivity of blood culture bottles versus standard aerobic culture methods for urine culture in the diagnosis of pyelonephritis.
5	Goodrich Laurie, Adams M, Kisiday J	Stem cell isolation in horses.
6	Hassel Diana, Walker W	Risk factors associated with dehydration and colic in horses participating in a 100-mile, 7-day high altitude endurance ride.
7	Haussler K, Blauvelt S	Morphometry of the equine trunk: Quantifying the size and shape of the horse's back in an effort to optimize saddle fitting.
8	Johnston, Matthew S., Kane NG	Validation of the fecal occult blood test in Macaws (*Ara* spp.).
9	Lunn Katharine, Oman R	Role of leptospiral organisms in canine chronic hepatitis.
10	MacPhail Catriona, Lappin MR, Shaver S	Role of fastidious organisms in idiopathic pericarditis.
11	McCue P, Ferris R	Development of a real time PCR assay for the detection of pathogenic fungi in the uterus of the mare.
12	Palmer Ross H, Valdez-Martinez A, Cadmus J	Do tibial osteotomy techniques attain the desired geometry for canine stifle stabilization?
13	Veir Julia, Sonius C	Use of continuous glucose monitoring for initial glucose monitoring in newly diagnosed diabetic cats being treated with glargine insulin.
14	Webb Craig B, Hart M	The utility of peripheral blood parameters as a measure of oxidative stress in the liver of healthy dogs.
15	Zabel S, Townsell M, Rosychuk R, Bauer J, Cohen L	Evaluation of skin surface lipid composition and barrier function in Golden Retrievers receiving topical ALLERDERM® SPOT-ON.
16	Frye M, Melman E, Bright J.	Exploring obesity cardiomyopathy in dogs: determination of myocardial cellular biology, structure and function

Center for Companion Animal Studies
Supported PVM Student Grants 2009

Faculty Sponsor	Title
Avery, A., et al.	Targeted immunotherapy for treatment of dogs with B cell non-Hodgkin's-like lymphoma.
Boscan, P., et al.	Epidural use of NK-1 receptor antagonist "maropitant" to elicit analgesia.
Goodrich, L., et al.	Transduction of equine bone marrow derived mesenchymal stem cells with varying serotypes of adeno-associated viral vector.
HACKETT, T., ET AL.	Quantification of eubacterial DNA in blood of dogs by real time PCR assay.
Hackett, E., et al.	Determination of eubacterial DNA in the peripheral blood of healthy neonatal foals from birth to 72 hours of age.
Hassel, D., et al.	Detection of calprotectin and its correlation to apoptosis within the equine gastrointestinal tract from horses with black walnut extract-induced laminitis
Kawcak, C., et al.	Correlation between geometric parameters identified on computed tomographic images and radiographic images of horses.
Lappin, M., et al.	Amplification of feline hemoplasma DNA from feral cats, *Aedes vexans*, and *Culex tarsalis* in Colorado.
Lappin M., et al.	Prevalence of methicillin resistant *Staphylococcus aureus* and *Staphylococcus pseudintermedius* in cats and dogs housed in an animal shelter in North-Central Colorado.
Lunn, K., et al.	Success of radioiodine therapy in cats receiving methimazole.
Lunn,K., et al.	Evaluation of the effects of hospital stress on physiologic parameters in the cat.
Lunn, K., et al.	Detection of TH40 cells in normal and diabetic dogs.
Palmer,R., et al.	Do tibial osteotomy techniques attain the desired geometry for canine stifle stabilization?
Powell, C., et al.	Prevalence of *Bartonella* spp. DNA in the conjunctival cells collected from cats with and without conjunctivitis.
Thamm, D., et al.	The effect of curcumin on feline vaccine-associated sarcoma.

Webb,C., et al.	Effect of *Lactobacillus* probiotic supplementation on cytokine production and T-regulatory cell populations in cats with inflammatory bowel disease.
Worley, D., et al.	Development of regional lymph node classification for use in canine lung cancer staging.
Zabel,S., et al.	Evaluation of cyclosporine blood levels in eight cats after administration of metoclopramide.