



Research News

September 2011

Headlines

- **Dean King names Dr. Pat Green as new Associate Dean for Research and Graduate Studies**



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Dr. Pat Green NEW Associate Dean for Research and Graduate Studies

Dean Lonnie King has appointed Dr. Patrick Green as Associate Dean for Research and Graduate Education effective October 1, 2011.

Dr. Green will replace Dr. Michael Lairmore who will become the new dean of the College of Veterinary Medicine at the University of California-Davis. Dr. Green has enjoyed a distinguished research career with over 30 years of research experience and continuous extramural funding as PI, Co-PI, and Program grants throughout his entire career totaling nearly \$30 million. Since 2004, he has been Director of the Center for Retrovirus Research; and in 2005, Dr. Green was appointed co-leader of the Comprehensive Cancer Center Viral Oncology Program. As a mentor, he is committed to graduate training and has worked with numerous graduate students and post doctoral scientists. Dr. Green will oversee the Office of Research and Graduate Studies, which provides grant support for the College, coordinates the Veterinary and Comparative Medicine Graduate Program and the Summer Research Program, and sets the research agenda for our College. He will also work with Dr. Schelhorn to advance commercialization opportunities for faculty discoveries. Welcome Dr. Green!

Research Expo 2011

Mark your calendar for OSU's annual Research Expo on November 8, 2011. This event highlights our innovative research as well as the wide range of support services available to researchers. Registration for the Research Expo includes the annual "State of Research" address (8:30 a.m. - 9:30 a.m.) and access to the exhibitions. <http://research.osu.edu/>

COMMERCIALIZATION OFFICE

Research and Commercialization Introductory Course starts September 20, 2011. This is an online course designed to help science and engineering researchers understand how research commercialization works. Areas covered include intellectual property, patents, copyrights, trade secrets, trademarks, licensing agreements, employment agreements, consulting agreements, tech transfer, creating and funding companies, and federally funded Small Business Innovation Research (SBIR) programs. Each lecture is a live 90-minute online class with Q&A. Costs: This workshop course is offered free of charge but registration is required.

[Click here to register](#)

FOCUS ON SHARED RESOURCES

Comparative Pathology and Mouse Phenotyping

The Comparative Pathology and Mouse Phenotyping Shared Resource (CPMPSR) support investigators utilizing animal models to study human disease. Services include comprehensive gross and histologic exams of laboratory animals especially genetically engineered mice. Other services include hematology, clinical chemistry, radiograph, immunohistochemistry and tissue microarray. In addition, the CPMPSR provides a referral service to experienced scientists within the OSU research community providing expertise in animal model development, experimental design, optimal sample collection, and data interpretation. For more information-

<http://vet.osu.edu/biosciences/comparative-pathology-and-mouse-phenotyping-shared-resource>

Contact: Krista La Perle, DVM, PhD, Dipl. ACVP Director 292-5480 la-perle.1@osu.edu

COUNCIL FOR RESEARCH ACTIVITIES – UPDATE

The Council for Research met on August 11th and approved the funding of the following grants:

Equine: "The effect of insulin resistance on the regulation of glucose homeostasis" Drs. Veronique Lacombe and Alicia Bertone

Canine:

- "Effects of mitochondrial DAMPS on the inflammatory response in a model of canine non-septic SIRS" – Dr. Tracey Papenfuss
- "Comparison of 4 different analgesia regimens on post-operative pain scores in dogs undergoing tibial plateau leveling osteotomy" – Dr. Richard Bednarski
- "Influence of hang time on bacterial contamination of intravenous fluid bags in a veterinary emergency room" – Dr. Julien Guillaumin
- "Assessment of osteosarcoma metastasis by Micro-CT/PET in a mouse model" – Dr. Matthew Allen

SUMMER RESEARCH PROGRAM – UPDATE:

On Thursday, September 8, 2011 the College hosted the Summer Research Program Retreat. This event signified the conclusion of the 2011 Veterinary Scholar Summer Research Program and served as a venue for 49 veterinary students (a record number) to present their research posters. Projects ranged from milk quality assessments in Brazil to separation anxiety in shelter dogs to cancer research. Highlights included talks by four current graduate students included: Drs. Andrew Bowman (VPM), Beth Chaffee (VBS), Joelle Fenger (VCS) and Kelly Santangelo (VBS). Afterwards, the students had their poster session in the Hummel Grand Lounge in VMAB.



RECENT SELECTED PUBLICATIONS

Wang L, Qin Z, Pantin-Jackwood M, Faulkner O, Suarez DL, Garcia M, Lupiani B, Reddy SM, **Saif YM, Lee CW**. Development of DIVA (differentiation of infected from vaccinated animals) vaccines utilizing heterologous NA and NS1 protein strategies for the control of triple reassortant H3N2 influenza in turkeys. *Vaccine*. 2011 Sep 8.

Van Eps AW, **Leise BS**, Watts M, Pollitt CC, **Belknap JK**. Digital hypothermia inhibits early lamellar inflammatory signalling in the oligofructose laminitis model. *Equine Vet J*. 2011 Sep 5.

Kim D, **Niewiesk S**. Sidestepping maternal antibody: a lesson from measles virus vaccination. *Expert Rev Clin Immunol*. 2011 Sep;7(5):557-9.

Faleiros RR, **Leise BS**, Watts M, Johnson PJ, Black SJ, **Belknap JK**. Lamellar chemokine mRNA concentrations in horses with carbohydrate overload-induced laminitis. *Vet Immunol Immunopathol*. 2011 Jul 28.

Adin CA. Complications of ovariohysterectomy and orchiectomy in companion animals. *Vet Clin North Am Small Anim Pract*. 2011 Sep;41(5):1023-39.

McLoughlin MA. Complications of lower urinary tract surgery in small animals. *Vet Clin North Am Small Anim Pract*. 2011 Sep;41(5):889-913.

Adin CA, Scansen BA. Complications of upper urinary tract surgery in companion animals. *Vet Clin North Am Small Anim Pract*. 2011 Sep;41(5):869-88.

de Brito Galvao JF, **Chew DJ**. Metabolic complications of endocrine surgery in companion animals. *Vet Clin North Am Small Anim Pract*. 2011 Sep;41(5):847-68.

Adin CA. Preface: surgical complications. *Vet Clin North Am Small Anim Pract*. 2011 Sep;41(5):xi-xii.

de Silva S, **Wu L**. TRIM5 Acts as More Than a Retroviral Restriction Factor. *Viruses*. 2011 Jul 15;3(7):1204-1209.

Martin-Vaquero P, **da Costa RC**, Echandi RL, Sammet CL, Knopp MV, Sammet S. Magnetic resonance spectroscopy of the canine brain at 3.0T and 7.0T. *Res Vet Sci*. 2011 Aug 22.

Schober KE, Hart TM, Stern JA, Li X, **Samii VF**, Zekas LJ, Scansen BA, Bonagura JD. Effects of treatment on respiratory rate, serum natriuretic peptide concentration, and Doppler echocardiographic indices of left ventricular filling pressure in dogs with congestive heart failure secondary to degenerative mitral valve disease and dilated cardiomyopathy. *J Am Vet Med Assoc*. 2011 Aug 15;239(4):468-79.

Russell DS, Wancket LM, **Stromberg PC**. Pathology in practice. *J Am Vet Med Assoc*. 2011 Aug 15;239(4):447-9.

Li M, Kannian P, Yin H, Kesic M, **Green PL**. Human T Lymphotropic Virus Type 1 Regulatory and Accessory Gene Transcript Expression and Export Are Not Rex Dependent. *AIDS Res Hum Retroviruses*. 2011 Aug 5.

Olson LE. Content analysis of a stratified random selection of JVME articles: 1974-2004. *J Vet Med Educ*. 2011 Spring;38(1):42-51.

Zimmerman B, Sargeant A, Landes K, Fernandez SA, Chen CS, **Lairmore MD**. Efficacy of novel histone deacetylase inhibitor, AR42, in a mouse model of, human T-lymphotropic virus type 1 adult T cell lymphoma. *Leuk Res*. 2011 Jul 28.

Adin CA, Chew DJ, Heng HG, Townsend KL, Karnik K. Bladder inversion and secondary hematuria in a 6-month-old domestic shorthair cat. *J Am Vet Med Assoc*. 2011 Aug 1;239(3):370-3.

Kumagai Y, Matsuo J, Cheng Z, Hayakawa Y, **Rikihisa Y**. c-di-GMP signaling regulates intracellular aggregation, sessility, and growth of *Ehrlichia chaffeensis*. *Infect Immun*. 2011 Jul 25.

RECENT GRANT AWARDS

Drs. **John Bonagura, Brian Scansen and Karsten Schober**: Boehringer Ingelheim Vetmedica *Evaluation of pimobendan in dogs with cardiomegaly caused by preclinical mitral valve disease - EPIC, Study No. 2009045*

Drs. **William Shulaw**, Rory Lewandowski & Jeff McCutcheon: USDA/ARS *A Systems approach to control gastrointestinal nematodes in organic small ruminant production*

Dr. **Matthew Allen**: Syracuse University *Evaluation of 2-solution bone cement in a sheep vertebroplasty model*

Dr. **Wondwossen Gebreyes**: Animal and Plant Health Inspection Service *International congress on pathogens at the human-animal interface - APHIS support*

CVM Investigators participating as co-investigators or collaborators on the following new grants:

Drs. Ganju, Leone, **Rosol**, Shapiro, Zhang & Zhou: NCI *Role of S100A7 in breast cancer progression and metastasis*

Drs. Olivo-Marston, Clinton, **Lairmore**, Lemeshow & Paskett: NCI *The effect of childhood and lifetime obesity and colon carcinogenesis*

PHPID is pleased to announce a financial assistance program for PHPID members and their associated lab personnel. Assistance may be provided for travel, meeting registration, equipment purchases and other small items. Contact Kat Marriott at Kathleen.Marriott@osumec.edu

Skills for Managing Your Research Team and Lab

For the 2011-12 academic year, Project CEOS and The Women's Place are partnering to offer to all women faculty the opportunity to participate in a lunchtime brown bag workshop series "Skills for Managing Your Research Team and Laboratory" beginning Friday (10/7). The eight workshops will be held over the autumn and winter quarters on Fridays from 11:30 a.m.-1:45 p.m. View a list of topics at <http://ceos.osu.edu>.

DIRECTOR TABBED FOR NEW SHARED RESOURCE

Cynthia Timmers, PhD, a scientist with more than 10 years of experience in human cancer genetics, has been selected to develop and direct the new Solid Tumor Translational Science Shared Resource at the OSUCCC – James. [Read more](#)

Center for Food Safety newsletter available http://uark.edu/ua/cfs/pdf_files/newsletter.summer11.pdf

Participants in the NIH Loan Repayment Programs Receive Up to \$35,000 Annually to Help Repay Student Loans Application Deadline is November 15, 2011 visit the LRP website at <http://www.lrp.nih.gov> for more information

The HHMI Medical Research Fellows Program enables medical, dental, and veterinary students at schools in the U.S. to spend a year conducting basic, translational, or applied biomedical research at any school or nonprofit research institution in the United States, except at the NIH in Bethesda, MD. Students are encouraged to work with HHMI investigators.

For the 2011-2012 program year, Fellows will receive a stipend of \$28,000, a fellow's allowance of \$5,500 that may be used for health care and other expenses and a \$5,500 research allowance for research-related enrichment activities and some research costs. The Competition System opens on **August 25, 2011 and the application deadline is January 11, 2012.** <http://www.hhmi.org/grants/office/graduate/>

SEMINARS, MEETINGS AND WORKSHOPS

- **Center for Clinical and Translational Science** "Tools of the Trade" Monday October 17, 2011, Ohio Union Cartoon Room. Register online at <http://tinyurl.com/4xspctb>
- 18th Annual **Midwest Microbial Pathogenesis Conference** October 21-23, Ann Arbor MI
<http://sites.google.com/site/mmpconf/>
- **Center for Retrovirus Research** Lab Meeting/Seminar series starts Thursday 9/15 from in 084 VMAB 9-10 AM
- International **Poverty Solutions Collaborative Conference** at OSU "Building Solutions to Poverty – Methods and Metrics for Identifying Success" October 19-21, 2011
<http://poverty.osu.edu/events/ipsc-methodology-conference/>
- **Stem Cells 2012 Conference** San Diego CA February 2 & 3, 2012 <http://www.selectbiosciences.com/conferences/SC2012/>
- Understanding the **Role of Epigenetic Change in Gene Regulation** – A Virtual Symposium October 5, 2011 11:00-12:30
<https://event.on24.com/eventRegistration/EventLobbyServlet?target=registration.jsp&eventid=318657&sessionid=1&key=84CD9BFC979EE3DFF0E57D7DB3234F49&partnerref=epigenetics2&sourcepage=register>
- **Mouse Models of Human Disease** Course, Cambridge, UK, February 1-3, 2012
http://www.infrafrontier.eu/docs/news/MM_Conf_Wellcome_0212.pdf
- **Request for Information: Future Biomedical Research Workforce** The Advisory Committee to the NIH Director will examine the future of the US biomedical research workforce (see <http://acd.od.nih.gov/bwf.asp>). *Our College Office of Research will be forming a response and your ideas are welcomed.*
<http://grants.nih.gov/grants/guide/notice-files/NOT-OD-11-106.html>
- Announcing a **new Genetics and Genomics Journal Club** Fall 2011! Contact Sanjida.Rangwala@osumc.edu
- **Upcoming Training at OSP.** Register at <http://osp.osu.edu/training/>
- Cayuse Introduction 9/29
- IRB Forms Help: Biomedical and Cancer 9/21
- **Job aids and training guides** are available here:
<http://osp.osu.edu/training/training/jobaids.cfm>

GRANT SUPPORT OFFICE - UPDATE

In the past month, 5 grant proposals and 4 contracts were processed; 3 reports were prepared; 16 PA005s and 2 OGC-005s were generated; eCerts, PETS and monthly problem projects were managed along with requests for project extensions. Initiatives include a pre-review grant evaluation format for investigators, a brown bag education and training seminar series, and working with the CVM Development to identify research areas of interest to donors.

What You Should Know – New CoI regulations

The Department of Health and Human Services has published the [Final Rule](#) revising Financial Conflict of Interest (FCOI) regulations. The changes from the 1995 regulations focus on Investigators' disclosure requirements of Significant Financial Interests, Institutions' reporting and management of identified Financial Conflicts of Interest, and public accessibility of information regarding certain Investigator Financial Conflicts of Interest. The Final Rule requires Institutions to be in full compliance with the revised regulations no later than one year from publication of the rule, and immediately upon making their FCOI policies publicly accessible. For more details on what has changed and how the revised regulations compare to the 1995 regulations, visit the [Financial Conflict of Interest website](#) and view the [side-by-side comparison table](#).

UPCOMING FUNDING OPPORTUNITIES

CTSA Collaborative Multitrack Pilot RFA – Veterinary Medicine Pilot Program (track 8) Due October 2
http://ccts.osu.edu/sites/ccts.osu.edu/files/pdf/Pilot%20Collaboration%20Project%20RFA_09-20-10.pdf

CCTS General Focus Pilot RFA – due October 9 <http://ccts.osu.edu/news-highlight/rfa-general-focus-pilot>

American Academy of Allergy, Asthma and Immunology (AAAAI) \$50,000 Bridge Grant will fund either (1) K grant awardees whose first-time R Award application was evaluated but not funded, and who are at risk of running out of research support; or (2) K Award applicants whose application was evaluated but not funded, and who are at risk of running out of research support. Due November 1, 2011 <http://www.aaaai.org/professional-education-and-training/grants---awards.aspx>

DOD FY11 Lung Cancer Research Program Concept Award Solicitation #: W81XWH-11-LCRP-CA Due November 9, 2011

DOD FY11 Peer Reviewed Cancer Discovery Award Solicitation #: W81XWH-11-PRCRP-DA Due October 27, 2011

Winn Feline Foundation Due December 12, 2011 www.winnfelinehealth.org

Gray Lady Foundation for canine research (esp. Miniature Schnauzers) due September 30
www.grayladyfoundation.org

USDA: **If you submitted a letter of intent for the Food Safety RFA, grants are due October 11, 2011

NIH Opportunities

Host-Targeted Interventions as Therapeutics for Infectious Diseases (R21/R33)(RFA-AI-11-032) Letter of Intent due Oct. 31, 2011, app. Due November 30, 2011 <http://grants.nih.gov/grants/guide/rfa-files/RFA-AI-11-032.html>

NIGMS Centers for HIV/AIDS-Related Structural Biology (P50) (RFA-GM-12-003) Due January 6, 2012

Lab to Marketplace: Tools for Biomedical and Behavioral Research (SBIR [R43/R44]) (PA-11-335) multiple due dates

NCI's Provocative Questions Project is seeking applications from researchers eager to influence the state of cancer research by tackling potentially game-changing scientific questions that could drive progress against cancer. **Deadline is November 14.** The RFAs can be viewed at:
<http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-11-011.html> (R01)
<http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-11-012.html> (R21)

NSF Opportunities:

Basic Research to Enable Agricultural Development Due November 22, 2011
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503285&org=NSF&sel_org=NSF&from=fund

Ecology of Infectious Diseases Due December 7, 2011
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5269&org=DEB&from=home

For more information contact *Dr. Kate Hayes-Ozello*, College of Veterinary Medicine Grants Support Office at Kathleen.Hayes-Ozello@cvm.osu.edu (614) 292-8670 or Ms. Michele Morscher at Michele.Morscher@cvm.osu.edu