Research News
The Ohio State University
College of Veterinary Medicine
March 2011

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Drs. Boris-Lawrie and Lairmore Elected Fellows of the American Academy of Microbiology

Drs. Michael Lairmore and Kathleen Boris-Lawrie, both Professors in the Department of Veterinary Biosciences, have been elected as Fellows of the American Academy of Microbiology, who will be recognized at the 111th American Society of Microbiology Meeting in New Orleans on Tuesday, May 24th, 2011.
Dr. Boris-Lawrie is widely recognized for her distinguished contributions to the field of molecular virology, particularly for defining post-transcriptional control of proteins and RNA elements that modulate retrovirus replication and cell growth. Dr. Lairmore, an internationally authority in retrovirology and pathology, has contributed fundamental knowledge of viral pathogenesis. Using unique expertise in virology and pathology he contributed pioneering studies in animal models of human retroviruses, defined novel virus-host relationships and created paradigm shifting approaches mechanisms of viral diseases. Drs. Lairmore and Boris-Lawrie are members of the Viral Oncology Program of the Ohio State Comprehensive Cancer Center and Center for Retrovirus Research. Each is funded by the National Institutes of Health and the National Cancer Institute through a Program Project Grant to study retroviruses as models of lymphocyte transformation and disease (http://vet.osu.edu/retrovirus-research/program-project-grant). Dr. Lairmore also is Director of an NIH postdoctoral training grant focused on models of human diseases (http://vet.osu.edu/education/mouse-pathology).

The American Academy of Microbiology (http://academy.asm.org/) is the honorific leadership group within the American Society for Microbiology (ASM), the world’s oldest and largest life science organization. The mission of the Academy is to recognize scientists for outstanding contributions to microbiology and provide microbiological expertise in the service of science and the public. The Academy serves as a resource to governmental agencies, industry, ASM and the larger scientific and lay communities by convening colloquia to address critical issues in microbiology.

Dr. Rikihsia Semi-finalist for TechColumbus Inventor of the Year

At the TechColumbus (http://www.techcolumbus.org/) Innovations Awards February 3rd, 2011 event at the Greater Columbus Convention Center - Battelle Hall, Dr. Yasuko Rikihisa, Professor in the Department of Veterinary Biosciences was one of three finalist for Inventor of the Year. Dr. Rikihsia has focused her innovative work on identifying causes and diagnostic platforms for a number of tick borne diseases that infect a wide variety of animals and humans (http://vet.osu.edu/rikihisa-yasuko). This work has been successfully translated into commercial products and services that touch millions of companion animal lives today, and may touch human lives, beyond the animal bond, in the future. The commercial serum test for E. canis developed from her patented technology underpins the standard-of-care for annual parasite screening available to owners of 77.5 million dogs in the US alone and more worldwide. Dr. Rikihsia’s pioneering studies in the biology of the intracellular bacteria, Ehrlichia, Anaplasma and Neorickettsia has led to nine US issued patents, one pending US patent application, four issued foreign patents and two pending foreign patent applications. Dr. Rikihsia has been awarded over $16.4M in funds
from the National Institutes of Health (NIH) over the past 20 years to support her world-renowned research program.

Dr. da Costa Funded to Study Cervical Spondylomyelopathy in Great Danes

Dr. Ronaldo da Costa, Assistant Professor of Neurology and Neurosurgery, Department of Clinical Sciences (http://vet.osu.edu/RonaldodaCosta) has been funded by the Great Dane Club of America to study “Wobbler” syndrome, also known as cervical spondylomyelopathy (CSM). The syndrome is the most common spinal disease of giant and large breed dogs, with Great Danes and Doberman Pinschers being the most commonly affected breeds (http://vet.osu.edu/kinematic-gait-1). This disease frequently affects young Great Danes causing compression of spinal structures, leading to pain and progressive neurological debilitation. CSM is diagnosed using advanced imaging, such as myelography, computed tomography (CT) or magnetic resonance imaging (MRI). Dr. da Costa will combine anatomic studies with a functional study of the cervical spine using a state-of-the-art electrodiagnostic technique to fully characterize the anatomical and functional features of the cervical spine of Great Danes.

Dr. Schuenemann Receives Funds to Support Integrated and Sustainable Dairy Programs

Dr. Gustavo Schuenemann, Assistant Professor and Extension Veterinarian in the Department of Preventive Medicine has been awarded a subcontract from Kansas State University (SARE Funding) to provide specialized training in sustainable dairy practices for both conventional and organic systems. The project will provide a collaborative working approach through workshops, discussion groups, and out-of-class assignments. The program will involve 50 participants on sustainable dairy practices and establish a network designed to enhance research-based practices to increase dairy farm profitability.

Drs. Buffington and Lord Funded to Improve
Welfare Education

Drs. Tony Buffington and Linda Lord have been awarded funds from the Kenneth A. Scott Trust to provide improved education for veterinary students in the welfare and society treatment of companion animals. The project will provide instruction in applied companion animal behavior to all College of Veterinary Medicine students in the Veterinary Medical Center. Didactic and web-based instruction will teach students low stress handling of animals, behavioral wellness and problem prevention, and problem behavior intervention. The project will research best practices in the effective behavioral instruction to be shared with the Capital Area Humane Society and other animal welfare and educational institutions.

ADVANCES IN VETERINARY MEDICINE RESEARCH WEEK
April 11-14, 2011

This event serves to promote to the entire university community the exciting research being conducted by our veterinary students, graduate students, residents, postdoctoral scientists and faculty. This year’s event has been extended to highlight collaborative research with noontime seminars from each department (Monday to Wednesday April 11th - 13th) and cumulating on Thursday, April 14th in an exciting day of posters, awards and plenary speaker.

CALL FOR ABSTRACTS – DEADLINE – MONDAY, MARCH 28, 2011

All seminars will take place in the Veterinary Medical Center Auditorium. Confirmed Speakers include:

Monday, 4/11 – Dr. Michael Knopp, Vice Chair of Research & Professor, Department of Radiology; Novartis Chair of Imaging Research; Director, Wright Center of Innovation in Biomedical Imaging; Division of Imaging Science

Tuesday, 4/12 – Dr. Linda Saif, Distinguished University Professor, Department of Veterinary Preventive Medicine & Food Animal Health Research Program
Wednesday, 4/13 – Dr. Larry Schlesinger, Saslaw Professor of Internal Medicine; Director, Division of Infectious Diseases and the Center for Microbial Interface Biology

Thursday, 4/14 -KEYNOTE ADDRESS: Dr. Guy Palmer from Washington State University is this year’s Keynote Speaker. Dr. Palmer is the Regents Professor and Creighton Endowed Chair, Pathology and Infectious Diseases, and Director of the Paul G. Allen School for Global Animal Health.

Travel Awards will be given to the best poster presentation in each of the scientific categories!

Questions should be directed to Michele Morscher (morscher.1@osu.edu or 614-292-9203) http://vet.osu.edu/research/college-research-week

COUNCIL FOR RESEARCH ACTIVITIES – UPDATE

The Council met March 2 to review and discuss the canine and USDA Formula Funds intramural grants proposals. Watch for upcoming announcement for upcoming Pfizer Research Award and Gertrude Hoeger Research Award competitions!

SUMMER RESEARCH PROGRAM – UPDATE

Applications for the 2011 class of Veterinary Summer Research Scholars are due April 1, 2011.

For more information on the summer research program, see website http://vet.osu.edu/research/veterinary-scholar-summer-research-program

RECENT GRANT AWARDS & PUBLICATIONS

GRANT AWARDS

Dr. Cheryl London: Concurrent Analytical Inc. *Phase I evaluation of gold nanorods in dogs with solid tumors*

Drs. Tony Buffington and Linda Lord: Kenneth Scott Trust *educating veterinary students to improve welfare and society’s treatment of companion animals*

Drs. Fernando Silveira, Wondwossen Gebreyes and Bayleyegn Molla: USDA Foreign Agriculture Service *Private veterinary business*
PUBLICATIONS


SEMINARS, MEETINGS, AND WORKSHOPS

The Center for Clinical and Translational Science (CCTS) is sponsoring a Grant Writing Workshop. RSVP required by March 4, 2011.
Presented by Drs. Israel Goldberg and Anthony Coelho, both formerly with the National Institutes of Health. Topics to be included in the workshop are: Scientific Peer Review, Grant Writing for Success, Strategies for Success, Writing for the Reviewers. The event is free and by reservation only. Meals will be provided. Date and Time: April 12, 2011 from 5:00 p.m. – 8:00 and April 13, 2011 from 8:00 a.m. – 4:00 p.m. Location: Ohio Union. Space is limited. RSVP with name, title, department, and email address is required by March 4, 2011 To RSVP or for questions; contact Stephanie Vecchiarelli at ccts-education@osumc.edu.

- **CCTS Annual Scientific Meeting** on Translational Therapeutics and Diagnostics: originally scheduled for March 4, 2011 has been rescheduled for May 2011: More information available at a later date. contact Valerie DeGroff

- **OSU:pro - Resources and Training**: By design, OSU:pro helps to organize your scholarly activity, streamline the building of your dossier, and end duplicative efforts in reporting to help save time and money across the academic enterprise. This tool also communicates your professional accomplishments to visitors searching for local expertise, thereby expanding opportunities for the community to interact and engage with us. OSU:pro puts knowledge management into practice - by reshaping the tools we use to document and share our knowledge and skills here at The Ohio State University. For training session sign up see: [http://pro.osu.edu/](http://pro.osu.edu/)

- The 10th **Annual OSU College of Medicine Research Day** is scheduled to take place Thursday, April 7, 2011, in the OSU Biomedical Research Tower. All OSU Medical Center faculty, staff and students are invited to attend. OSUMC Research Day is part of a coordinated Research Celebration in 2011, including activities organized by the CCTS on April 6 and NCH on April 8. [http://researchday.osu.edu/](http://researchday.osu.edu/)

- The Fourth Annual **Translational to Clinical (T2C) Wound Care Conference** will be held April 8-9, 2011, at the Ohio Union. Research should address tissue injury, repair and inflammation related to all organs. see [http://surgery.osu.edu/woundcenter/](http://surgery.osu.edu/woundcenter/)


- **Frontiers in Retrovirology 2011** Conference in Amsterdam, Netherlands, Oct. 3-5. Dr. Lairmore will be a featured speaker. [http://www.frontiers-of-retrovirology.com/](http://www.frontiers-of-retrovirology.com/)

- **Buck-IRB Newsletter Winter 2011** The Winter 2011 edition of the Buck-IRB (Institutional Review Board) Newsletter is now available. Highlights include: updated NIH responsible conduct of research requirements, top tips for written informed consent, and dates and times of Office of Responsible Research Practices office hours and educational sessions. Click here to view the full newsletter. For more information or suggestions, contact Tani Prestage at mailto:prestage.2@osu.edu.
Upcoming training offered through the Office of Sponsored Programs
http://osp.osu.edu/training/  PI Portal Practice Lab – March 17. A large number of online topics available as well; see website for more information

9th ANNUAL MIDWEST BLOOD CLUB Symposium. Thursday & Friday, April 21-22, 2011. The conference presents an exciting opportunity for Midwestern scientific leaders in Hematology/Stem Cell and Leukemia biology to come together. This year, the meeting is taking on a new format with invited presentations as well as peer-reviewed paper presentations by students/post-doctoral fellows for both oral and poster presentation. We invite you to submit an abstract in these areas of interest. To submit your abstract: www.midwestbloodclub.org before April 1st, 2011. Abstracts previously submitted to international meetings are welcome.

GRANT SUPPORT OFFICE – UPDATES

In the last month, 2 faculty award nominations, 6 NIH R01s, 2 USDA proposals, and 1 foundation grant and 1 training grant progress report have been processed through the GSO. In addition, 2 manuscripts were edited; 3 expenditure reports were prepared. E-certs, PETS and monthly Problem Projects were managed along with requests for project extensions and PA005 approvals. I was involved with organizing a day-long grant writer’s seminar along with Co-Sponsors OARDC, CFAES, OSU Extension and the OSU Office of Research.

UPCOMING FUNDING OPPORTUNITIES

New Collaboration Opportunities through the NCRR: The Clinical and Translational Science Awards consortium has established a website where researchers can post requests for needed collaborators to build out an idea or a project and look for opportunities to collaborate with others. You do not have to be at a CTSA institution to post or respond to posts. New collaborations and quicker progress on all projects is the goal. You can find the site on the Web at CTSAweb.org/CollaborationOpportunities

Intramural Grants:

CCC Pelotonia Fellowship Program Accepting Applications

The Pelotonia Fellowship Program, funded with money raised by the annual Pelotonia bicycle tour between Columbus and Athens, is accepting applications for undergraduate, graduate, medical and postdoctoral fellowships. These fellowships are awarded for cancer-related research projects but can go to applicants in any field of study.
Applications are due March 1. For more information, including eligibility guidelines and an application form, go to http://cancer.osu.edu or e-mail Jeffrey.Mason@osumc.edu.

OSU Office of International Affairs Grants:

- Gateway Interactive Course Module Seed Grant
- Gateway Research Seed Grant
- Gateway Study Abroad Seed Grant
- International Affairs Faculty Grant
- Fulbright-Hays Faculty Research Abroad

More details can be found at- http://oia.osu.edu/grants-and-scholarships/faculty-grants.html

Extramural Funding Opportunities

Association of Zoos and Aquariums Conservation Endowment Fund

American Association of Bovine Practitioners (AABP) Student Externship and Education Grants
Due April 1 (Externships) and April 15 (Education Grants), 2011
http://www.aabp.org/students/asep.asp

Wellcome Trust Research Career Development Fellowships in Basic Biomedical Sciences
Preliminary application due April 4, 2011
http://www.wellcome.ac.uk/Funding/Biomedical-science/Funding-schemes/Fellowships/Basic-biomedical-fellowships/WTD004431.htm

USDA Opportunities

- AFRI Foundational Program Food Safety LOI due 2/28/11, Proposal Due 5/2/11
  http://www.csrees.usda.gov/fo_fpfoodsafetynutritionandhealthafri.cfm

- Other relevant FOAs expected soon…check the USDA website!
  http://www.nifa.usda.gov/fo/funding.cfm


NIH Funding Opportunities

Shared Instrument Grant Program (S10) due March 23, 2011
Lasker Clinical Research Scholars Program (SI2) (RFA-OD-11-001) 
National Cancer Institute  Application Receipt Date(s): April 04, 2011  

SBIR Phase IIB Bridge Awards to Accelerate the Development of Cancer Therapeutics, Imaging Technologies, Interventional Devices, Diagnostics, and Prognostics Toward Commercialization (R44) (RFA-CA-11-002) National Cancer Institute Due Dates: April 07, 2011  

Interdisciplinary Team Science for the Study of Interstitial Cystitis/Painful Bladder Syndrome (IC/PBS) (R24) – The present FOA supports the development of collaborative, inter-disciplinary research teams using innovative approaches to answer a single critically important research question relevant to our understanding, prevention, diagnosis or treatment of the urologic pelvic pain syndrome traditionally referred to as interstitial cystitis/painful bladder syndrome. LOI due: 3/16/11. Application due: 4/13/11.

US Army Opportunities

BAA for Extramural Medical Research – Research Areas of interest: Medical Biological Defense Research Program: Viral, Toxin and Bacterial Studies, Vaccine development, Development of improved methods for delivery of vaccines, Drug Development, Identification and Diagnosis. Telemedicine and Advanced Technology Program: Medical Imaging Technologies, Chronic Disease and Integrative Medicine, Infectious Disease, Neuroscience, Regenerative Medicine, Nanomedicine and Biomaterials. Solicitation #: W81XWH-BAA-11-1

BAA for Basic & Applied Research, FY07-FY11 –Life Sciences: Biochemistry, Molecular Genetics and Genomics, Microbiology and Biodegradation, Neurophysiology and Cognitive Neuroscience, Social and Behavioral Science; Solicitation #: W911NF-07-R-0003-04

National Science Foundation Opportunities

Advancing Theory in Biology (ATB) Full Proposal Deadline(s): due April 13, 2011  

Additional NSF Funding Opportunities  
http://www.nsf.gov/funding/pgm_list.jsp?type=xcut

Policy Updates

New Page Limits for NIH Individual Career Development (K) Award Applications: Due Dates After January 7, 2011 (NOT-OD-11-027)  
Advanced Notice of Change in Policy on the Submission of Letters of Reference for Kirschstein-NRSA Fellowship (F) and Career Development (K) Applications: Letters due by same date as proposal, eliminates 5-day grace period. (NOT-OD-11-036)

The Veterinary Medicine Loan Repayment Program (VMLRP)
The VMLRP will pay up to $25,000 each year towards qualified educational loans of eligible veterinarians who agree to serve in a NIFA designated veterinarian shortage situations for a period of three years. Information for anyone interested in the VMLRP, including, but not limited to, legislative authority, regulations, Federal Register notices, reports & statistics, and a glossary pertaining to the VMLRP. Information for veterinarians interested in applying to the program, including eligibility, loan consolidation, the application review process, a guide to completing the application, and application forms. Information for award recipients on the following topics: service obligation, tax allowance, the loan repayment process, etc.

Tentative Timeline for Fiscal Year 2011
March 29, 2011 Submission deadline for Shortage Situation nominations
May 1, 2011 Posting of Designated Veterinarian Shortage Situations on NIFA Web site
May 2, 2011 Publication in the Federal Register of the Notice of Request for Applications (RFA) with link to the RFA posted on NIFA website
July 1, 2011 Application period closes
September 2011 Offers made to selected individual veterinarian applicants

Contact Information: For further information, contact: VMLRP.

This is a reminder that the NIH Error Correction Window has been eliminated for electronic submissions for due dates On or After January 25, 2011
Notice Number: NOT-OD-10-123

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE QUALITY IMPROVEMENT PROGRAM: The Institutional Animal Care and Use Committee (IACUC) will initiate a Quality Improvement Program to enhance oversight of animal use at OSU. Beginning in spring 2011, the IACUC will begin direct outreach to investigators with active animal use protocols. The Principal Investigator (PI) and all lab personnel working with animals of specific protocols will be asked to meet with one or more representatives of the IACUC to discuss how the research is progressing. The goal is to help identify common trends in protocol activities that may be problematic or may require additional training or other support services. Individual reports will not be generated, but summary reports of the QI team’s activity will be presented to the IACUC on at least a semi-annual basis to help determine if there are any trends that the committee might need to address in the future.
GREAT RESOURCE: The Molecular Biology Supply Center (MBSC) is located here on campus in the Biological Sciences Building, Room 117A. The Center is managed by Dr. Michael Wolfe and is a one stop center to orders products directly from the manufacturer, or through a distributor (Fisher, VWR, ISC Bioexpress, MidSci). There are no shipping or hazardous materials fees for all Supply Center purchases, both direct orders and distributor orders. The Supply Center charges wholesale prices! Call 292-7966 or e-mail mbsc@osu.edu for catalog and additional information.

Annual Review of Chemical Inventory

Compliance with the OSHA Laboratory Standard requires laboratories to maintain a current chemical inventory. A laboratory’s chemical inventory must be audited and updated at least annually. In an effort to meet this requirement, a new feature is now available for users of the EHS Assistant web program. On your user web profile you will see a link called “Inventory Annual Review Statement;” by clicking this link, you will be prompted with a simple acknowledgement form. The form asks for the name of the person who reviewed the inventory and the date. Beginning in January 2012, the inspection checklist will reference this online acknowledgement as part of the inspection process. If you need assistance using the EHS Assistant program or need to retrieve your user information, please contact Mitch Baker at baker.779@osu.edu.

WHAT YOU NEED TO KNOW – RESEARCH COMPLIANCE

The mission of the Office of Research Compliance (ORC) is to support and promote ethical research practices at The Ohio State University. ORC serves the OSU research community by coordinating institution-wide research compliance policy and procedure development, and by partnering with researchers, so that the university is compliant with federal, state, and local laws and regulations as well as university policies. This office covers Conflict of Interest, Misconduct, Export Control, and Responsible Conduct of Research. In addition, the office hosts an anonymous reporting line to permit confidential reporting of inappropriate or unethical research practices. In addition, the website provides very useful links of Offices, Committees and Panels that support research. New developments include a recently announced delay in the annual eCoI process for the 2010-2011 reporting year due to anticipated changes from the federal government. Stay tuned!

NIH is making changes to the Biographical Sketch. Principal Investigators can describe personal factors that may have delayed their transition to research independence. Such factors can occur at any point in a scientist’s career and include family care responsibilities, illness, disability, military service and other personal issues.
This modification of the Biographical Sketch will permit Program Directors/Principal Investigators and other senior/key staff to describe personal circumstances that may have reduced productivity. Peer reviewers and others will then have more complete information on which to base their assessment of qualifications and productivity relevant to the proposed role on the project. For more detailed information, please click on this link: http://grants.nih.gov/grants/guide/notice-files/NOT-OD-11-045.html

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