



## Research News for the College of Veterinary Medicine - November 2010

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### Dr. Lairmore Elected to Institute of Medicine



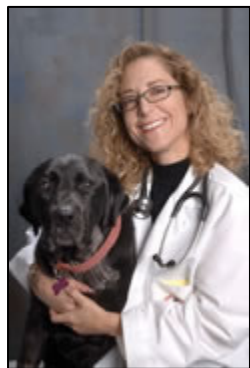
Dr. Michael Lairmore, Associate Dean of Research and Graduate Studies was recently elected into the prestigious Institute of medicine of the National Academies of Science. He was recognized as a “renowned scientist and leader who bridges multiple disciplines to address basic questions to viral causes of cancer”. Dr. Lairmore has been funded continuously by the National Institutes of Health for nearly 20 years (totally nearly \$30 million in direct costs) and has authored or co-authored over 170 scientific publications including high cited publications in top tiered journals such as *The Proceedings of the National Academy of Science*, *Journal of the National Cancer Institute*, *Journal of Biological Chemistry*, *Journal of American Medical Association*, *Annals of Internal Medicine*, *PLOS One*, *American Journal of Pathology*, *Journal of Immunology*, *Journal of Experimental Medicine*, and *Blood*. He has been appointed to numerous

National Institutes of Health Study Sections and scientific panels and directs a NCI Program Project Grant and post doctoral NIH T-32 training grant. Dr. Lairmore is the recipient of numerous academic awards including the Hero of Hope Award by the American Cancer Society, Ohio State (OSU) University *Distinguished Scholar* and is a *Fellow of the American*

*Association for the Advancement of Sciences.* Among his many leadership positions he is currently an Associate Director for Basic Sciences at the OSU Comprehensive Cancer Center and President of the American College of Veterinary Pathologists.

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## **Dr. London Invited to AACR Meeting**



Dr. Cheryl London, Associate Professor and The Thekla R. and Donald B. Shackelford Professor in Canine Medicine, has been invited to speak at the 2011 Annual Meeting of the American Association for Cancer Research. This meeting will be held from April 2-6, 2011, in Orlando, FL, with approximately 18,000 scientists and exhibitors in attendance. The meeting will feature a multidisciplinary program of state-of-the-art laboratory, clinical, and translational research, as well as epidemiological and prevention research. The AACR Annual Meeting is regarded as one of the most important international cancer research meetings. Dr. London is a board-

certified veterinary oncologist who embodies the true physician-scientist; she performs groundbreaking research on cancer that can be applied directly to the animals she treats in the clinic. Her main area of research is the study and treatment of spontaneous tumors in dogs and cats as models for human cancer. Dr. London was the lead investigator in the development of the Food and Drug Administration (FDA) approved first canine cancer therapy in the U.S. - PALLADIA® (toceranib phosphate) - which was developed by Pfizer to treat mast cell tumors in dogs. In 2008, she was named co-Director (with Dr. William Kisseberth) of the Canine Comparative Oncology Genomics Consortium funded by the National Cancer Institute. Dr. London serves as a board member of the Animal Cancer Foundation, the Perseus Foundation for Animals and is a member of the American College of Veterinary Pathology task force to evaluate the grading of canine mast cell tumors. Previously, she was a member-at-large for the Veterinary Cancer Society and was a member of the board of the Morris Animal Foundation. She is also a member of the OSU Comprehensive Cancer Center.

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## **NOVEMBER IS CELEBRATE RESEARCH MONTH!**

Celebrate Research month is an annual recognition and celebration of research at OSU. During November, The OSU Office of Research will sponsor a series of events to highlight the research at OSU as well as the highlight support services available to researchers. Educational sessions will be offered throughout the month. View the

[complete schedule of events](#). Registration includes attendance at any or all events during the Research Expo. [Register today!](#)



This year's [Celebration of Research Expo](#) will take place in the Ohio Union from 8:30 a.m. to 4:30 p.m. Wednesday November 3, 2010. Dr. Caroline Whitacre, Vice President for Research at OSU will deliver her inaugural "State of Research" address at 8:30 AM in the Ohio Union and present the 2010 "Innovator of the Year" Awards. Tobin Smith, vice president for policy, Association for American Universities, will deliver keynote address "Post-Election Politics and Federal Funding: Issues and Challenges in Advocating for Federal Support of University Research in the Changing Political Environment."

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**NIH Extramural Loan Repayment Program:** *Apply Online Now for Possible Awards of Up to \$35,000 Annually.* The National Institutes of Health is accepting applications for its extramural *Loan Repayment Programs* now through 8:00 p.m. on November 15, 2010. Visit [www.lrp.nih.gov](http://www.lrp.nih.gov) to learn more about the programs and apply.

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## Career Development Reference Books Available



The Office of Research and Graduate Studies has obtained copies of two highly useful career development references from the Burroughs Wellcome Fund and the Howard Hughes Medical Institute

<http://www.hhmi.org/resources/labmanagement/moves.html> .

These books are available to borrow and can be signed out for two weeks at time. Please contact [Michele Morscher](#) if you are interested.

- "Training Scientists to Make the Right Moves - A practical guide to developing programs in scientific management" - This book is a resource for universities, professional societies, and other organizations interested in helping early-career scientists become successful managers of research programs. It presents a menu of ideas-gleaned from experienced training-event organizers-for planning, delivering, and evaluating programs in laboratory, leadership and management.

- "Making the Right Moves - A practical guide to scientific management for postdocs and new faculty" - This book is a collection of practical advice, experiences, and opinions from seasoned biomedical investigators and other professionals. It is a valuable resource on scientific management for any tenure-track laboratory researcher at a university or medical center, as well as for scientists pursuing other career tracks.
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## Commercialization and Licensing – MTAs

Material Transfer Agreements (MTAs) define legal rights for parties exchanging tangible materials for research purposes (cell lines, plasmids, proteins, transgenic animals, chemical compounds, and samples are examples of exchanged materials). Technology Licensing & Commercialization (TLC) is responsible for review and negotiation (as required) for all in-coming MTAs, and develops / negotiates all out-going

MTAs for OSU researchers. MTAs must be signed by an authorized university signatory; OSU MTA signatories are within TLC. The TLC website ([www.tlc.osu.edu](http://www.tlc.osu.edu)) has on-line forms, electronic submission tools, and further instructions – MTA button is on the left side of the TLC home page. TLC Materials Transfer specialists stand by to help you prepare for material transfers.

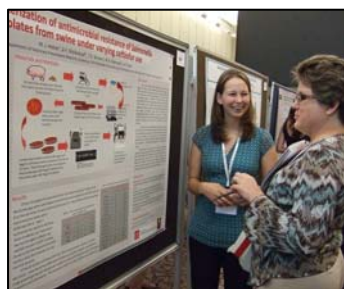
Transfers with commercial entities require case-specific review and often case-specific negotiation to ensure OSU and faculty member's interests are protected. In some cases commercial entities may seek ownership of inventions or derivatives made using transferred materials. Thus, a thorough review is important! TLC could recommend an out-going MTA be shifted to a license agreement. In rare cases you may be advised to "walk away" from the transfer if terms cannot be negotiated to a mutually satisfactory point.

Transfers between academic institutions are generally straightforward. Most academic institutions are signatories to the Uniform Biological Materials Transfer Agreement (UBMTA), which provides standard terms for material transfers. Please visit the TLC web site ([www.tlc.osu.edu](http://www.tlc.osu.edu)) for detailed information and instructions for both incoming and outgoing transfers.

For more information see Dr. Jean Schelhorn ([schelhorn.1@osu.edu](mailto:schelhorn.1@osu.edu) or 292-2462). Dr. Schelhorn served as associate vice president for The Ohio State University Technology, Licensing and Commercialization Office and currently serves to support our efforts to identify and develop intellectual property and commercialization strategies in the college, to enable us to more rapidly transfer from research ideas and discovery to practical use and commercialization. She works closely with the Drs. Larry Mathes and Lairmore in the Office of Research and Graduate Studies <http://vet.osu.edu/research> .

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## VETERINARY STUDENT SUMMER RESEARCH PROGRAM – ALUMNUS SELECTED TO PRESENT RESEARCH AT NATIONAL MEETING



Marlena McCarty, CVM Class of 2012, and Veterinary Student Summer Research Program participant in 2009, was just notified that her paper was accepted as an oral presentation for the annual meeting of the American Association of Swine Veterinarians (AASV) in March 2011. The AASV Annual Meeting in Phoenix, Arizona will feature veterinary students from eleven universities. A panel of three veterinarians representing private practice, industry, and academia reviewed and scored the abstracts to select fifteen for oral presentation at the meeting. Alpharma Animal Health, sponsor of the Student Seminar, provides a \$750 travel stipend to each student selected to participate in the oral session. At the meeting, the students' oral presentations and written materials will be judged to determine the recipients of scholarships ranging from \$500 to \$5000, funded by Alpharma Animal Health and Elanco Animal Health. The Student Seminar will take place Sunday, March 6, from 1:00 to 5:15 pm, and the scholarship awards will be announced during the noon luncheon on Monday, March 7. Marlena was an NIH T35 Research Fellow and worked with Dr. Tom Wittum on her project entitled, "Characterization of antimicrobial resistance of *Salmonella* isolates from swine under varying ceftiofur use."

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## RECENT GRANT AWARDS & PUBLICATIONS

### ➤ GRANT AWARDS



- Through an extension of a strategic partnership between the College of Veterinary Medicine and Procter and Gamble/Iams Pet Care, two veterinary student *Summer Scholar* positions will be funded for 2011. These students will have opportunities to perform research at the Cincinnati Zoo & Botanical Garden's [Center for Conservation and Research of Endangered Wildlife \(CREW\)](#). This summer Dr. Bill Swanson, director of the program, gave an overview of the different research programs being conducted in five different species of cats and rhinos for students in the

Summer Research Program. This program will represent an expansion of opportunities for our students in conservation medicine and research with the program in Cincinnati.

### ➤ PUBLICATIONS

Herron M. Animal behavior case of the month. Diagnoses: Territorial aggression, fearful behavior, and generalized anxiety. *J Am Vet Med Assoc.* 2010 Oct 15;237(8):916-8.

Varga A, Samii VF, Rings DM. What is your diagnosis? Diagnosis: Actinomyces bovis. J Am Vet Med Assoc. 2010 Oct 15;237(8):903-4.

Thakur S, Putnam M, Fry PR, Abley M, Gebreyes WA. Prevalence of antimicrobial resistance and association with toxin genes in Clostridium difficile in commercial swine. Am J Vet Res. 2010 Oct;71(10):1189-94.

Molla B, Sterman A, Mathews J, Artuso-Ponte V, Abley M, Farmer W, Rajala-Schultz P, Morrow WE, Gebreyes WA. Salmonella enterica in commercial swine feed and subsequent isolation of phenotypically and genotypically related strains in fecal samples. Appl Environ Microbiol. 2010 Sep 17.

Goodnight ME, Scansen BA, Kidder AC, Cooper ES, Butler AL. Use of a unique method for removal of a foreign body from the trachea of a cat. J Am Vet Med Assoc. 2010 Sep 15;237(6):689-94.

Schober KE, Hart TM, Stern JA, Li X, Samii VF, Zekas LJ, Scansen BA, Bonagura JD. Detection of Congestive Heart Failure in Dogs by Doppler Echocardiography. J Vet Intern Med. 2010 Sep 14. doi: 10.1111/j.1939- 676.2010.0592.x.

Gibson K, Kumagai Y, Rikihisa Y. Proteomic Analysis of N. sennetsu Surface-exposed Proteins and Porin Activity of the Major Surface Protein P51. J Bacteriol. 2010 Sep 10.

Walker JB, Rajala-Schultz PJ, DeGraves FJ. The effect of inoculum volume on the microbiologic detection of naturally occurring Staphylococcus aureus intramammary infections. J Vet Diagn Invest. 2010 Sep;22(5):720-4.

da Costa RC. Cervical spondylomyelopathy (wobbler syndrome) in dogs. Vet Clin North Am Small Anim Pract. 2010 Sep;40(5):881-913.



## SEMINARS AND WORKSHOPS

**Webinar: Federal Research Priorities and Budget for FY2011 Nov. 8-11 from 11AM-5PM:** Hear directly from program personnel at the National Institutes of Health, National Science Foundation, National Endowment for the Humanities, Office of Naval Research, Army Medical and Materiel

Command, and the Departments of Agriculture, Education and Energy as they share agency direction and funding priorities for the coming year. This webinar will be broadcast over a three day period (Monday - Wednesday, November 8-10, 2010) from 11 a.m. - 5 p.m. each day. View the [detailed agenda](#). This webinar is free and open to all faculty, staff, and students. You are welcome to come and go between presenters.

**Molecular Biology and Cancer Genetics, 160 Meiling Hall Wednesday, Nov. 3<sup>rd</sup>:** Charles Keller, MD, associate professor, Oregon Health and Science University, "The Surprising Oncogenic Potential of Satellite Cells and Myoblasts"

**Registration Open: 2011 AAAS Annual Meeting, 17–21 February, Washington, D.C. - Theme: "Science Without Borders"** The meeting is a platform for the most current thinking and research findings in science, technology, and policy. The program crosses conventional disciplinary borders. It features strong presentations from leading experts and a rare opportunity to meet and speak with eminent scientists who share your interests and passion for science. *Advance registration with a special discounted rate and hotel reservations are now open.* [More information.](#)

**Biosafety BSL3 Training Course** - Didactic and Practical Biosafety Education for the Host-Pathogen Investigator will be held November 1-4, 2010 at the [Howard Taylor Ricketts Laboratory](#). Registration information is now available on the GLRCE website (<http://www.glrce.org/>)

**'STATE OF CANCER PROGRAM' ADDRESS** OSUCCC Director and James CEO Michael A. Caligiuri, MD, delivers a "State of the Cancer Program" address from 4-6 p.m. on Thursday, Nov. 4, in Room 115 of Ohio State's Biomedical Research Tower. Please RSVP to Sarah Schmidt at [sarah.schmidt@osumc.edu](mailto:sarah.schmidt@osumc.edu) by Oct. 28.

➤ **Upcoming training offered through the Office of Sponsored Programs**

<http://osp.osu.edu/training/> (registration required)

- Being a PI at OSU-Roles and Responsibilities - Nov. 4
- Research Funding Opportunities – Nov. 4
- Animal Care and Use Program at OSU: Roles of the IACUC, ULAR and PI – Nov. 9
- Orientation to Research Administration at OSU – Nov. 10
- PI Portal Overview – Nov. 16

For more information, please contact: [agnoli.1@osu.edu](mailto:agnoli.1@osu.edu)

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## GRANT SUPPORT OFFICE – UPDATES



### Grant Support Team at Work – Activity in Past Month:

For the month of October, 5 NIH grants, 5 foundation grants, 8 PA005s, and 5 University Award nominations have been processed through the Grants Support Office. Current projects include 2 Howard Hughes Medical Institute Fellowships, 1 Gates Grand Challenges grant, 2 NIH grants, 1 local award and 4 national award nominations.

## UPCOMING FUNDING OPPORTUNITIES

- **The Battelle Endowment for Technology and Human Affairs (BETHA)** announces a call for proposals for the 2010 - 2011 competition: [http://oaa.osu.edu/betha\\_proposals.html](http://oaa.osu.edu/betha_proposals.html) Proposal Deadline: Tuesday, November

**23, 2010.** Recent winners from CVM include Drs. Wondwossen Gebreyes and Nongnuch Inpanbutr.

- **Alpaca Foundation** provides funding for alpaca-related research **pre-proposals due November 1, 2010** [www.alpacaresearchfoundation.org](http://www.alpacaresearchfoundation.org)
- **National Science Foundation:** Ecology of Infectious Diseases program supports the development of predictive models and the discovery of principles governing the transmission dynamics of infectious disease agents.  
<http://www.nsf.gov/pubs/2010/nsf10616/nsf10616.htm>
- **The Bill & Melinda Gates Foundation** is now accepting grant proposals for Round 6 of Grand Challenges Explorations, an initiative to encourage innovative and unconventional global health solutions. Grant proposals accepted online until **November 2, 2010**. Initial grants will be up to \$100,000, and promising projects will have the opportunity to receive additional funding of up to \$1 million. <http://www.grandchallenges.org/Pages/default.aspx>
- **Winn Feline Foundation** invites Research Grant Proposals in feline health. **Due Dec. 13, 2010** [www.winnfelinehealth.org](http://www.winnfelinehealth.org)
- **Gray Lady Foundation** funds studies to improve health, breeding and quality of life for canines, especially miniature schnauzers. Grants will range from \$5k-\$15K. New foundation, no website yet. Letter will serve as application. Reply to David L. Taylor at [DTAYLORATTY@comcast.net](mailto:DTAYLORATTY@comcast.net) no later than Dec. 3, 2010 to be considered.
- **American Quarterhorse Association Foundation:** Equine Research Program Due **Dec. 1, 2010** <http://www.aqha.com/foundation/programs/equineresearch.html>

### **NIH Funding opportunities**

**NIH Director's Early Independence Awards (DP5) \*\* limited submission opportunity**, only 2 candidates will be put forward by OSU, **internal LOI due Nov. 15**  
<http://rf.osu.edu/fundops/detail.cfm?strFOID=2643>

Innovative Emerging Molecular Analysis Technologies (SBIR R43/R44)  
(RFA-CA-10-013) National Cancer Institute Application Receipt Date(s): **November 8, 2010; February 8, 2011**  
<http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-10-013.html>

**Limited Competition for the Global Research Initiative Program, Basic/Biomedical Sciences** (R01) (PAR-10-278) Application Receipt/Submission Date(s): **January 10, 2011**  
<http://grants.nih.gov/grants/guide/pa-files/PAR-10-278.html>  
<http://grants.nih.gov/grants/guide/pa-files/PAR-10-280.html>

**Pilot and Feasibility Clinical Research Grants in Arthritis and Musculoskeletal and Skin Diseases** (R21) (PAR-10-282)  
Application Receipt/Submission Date(s): **Nov 18, 2010, March 1, 2011**  
<http://grants.nih.gov/grants/guide/pa-files/PAR-10-282.html>



**SHIFT Award: Small Businesses Helping Investigators to Fuel the Translation of Scientific Discoveries** [SBIR: R43/R44] <http://grants.nih.gov/grants/guide/pa-files/PA-10-122.html> **due 12/05/2010**

**NIAID Advanced Technology SBIR (NIAID-AT-SBIR [R43/R44])**  
<http://grants.nih.gov/grants/guide/pa-files/PA-10-123.html> **Due 12/05/2010**

**Scientific Meetings for Creating Interdisciplinary Research Teams (R13)** [PA-10-106](#)  
encourages Research Conference Grant (R13) applications from institutions and organizations that propose to develop interdisciplinary research teams. Teams must include investigators from the social and/or behavioral sciences, and may include the life and/or physical sciences. The goal is to broaden the scope of investigation into scientific problems, yield fresh and possibly unexpected insights, and increase the sophistication of theoretical, methodological and analytical approaches by integrating the analytical strengths of two or more disparate scientific disciplines while addressing gaps in terminology, approach and methodology. This program will allow investigators from multiple disciplines to hold meetings to provide the foundation for developing interdisciplinary research projects.

### **USDA Opportunities**

Agriculture and Food Research Initiative – Dual Purpose with Dual Benefit **Due 11/3/10**  
<http://www.csrees.usda.gov/fo/researchinbiomedicineandagricultureafri.cfm>

### **OSUCCC Opportunities**

#### **Institutional Research Seed Grants**

American Cancer Society / OSU Comprehensive Cancer Center are offering American Cancer Society-supported seed grants of up to \$30,000. This award provides seed money to independent junior faculty members and their equivalent for the initiation of cancer research projects so they can obtain preliminary results that will enable them to compete successfully for national research grants. Past applicants who did not receive funding are ENCOURAGED TO RESUBMIT. Current awardees may apply for a renewal of their currently funded projects, but priority will be given to new applications. Applications must be completed using the attached template and submitted to Angela Cerasoli, Grants Manager, via e-mail ([angela.cerasoli@osumc.edu](mailto:angela.cerasoli@osumc.edu)), no later than **5:00 pm on Monday, November 15<sup>th</sup>, 2010**.

#### **KOMEN FOR THE CURE GRANT APPLICATIONS DUE BY DEC. 1**

The Susan G. Komen for the Cure Columbus Affiliate is accepting applications from non-profit organizations for grants of up to one year for innovative projects in breast health and breast cancer education, outreach, screening and treatment support targeting services not otherwise available to medically underserved populations in several counties, including Franklin. [Read more](#)

### **NSF Opportunities**

**Major Research Instrumentation Program** <http://rf.osu.edu/fundops/detail.cfm?strFOID=2553>  
\*\*limited submission opportunity/internal competition LOI to be put forward as OSU candidate due Nov. 15

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## Center for Scientific Review Video Releases



- See how scientists on an NIH review group launched the Rocket Boys of NIH in a new YouTube cartoon. It tells the true and inspiring story of what happened when NIH reviewers gave a \$10 “grant” to two kids in 1957. The animation was developed to engage young people in science and show them the dynamic way NIH advances science and health. View the video at <http://www.csr.nih.gov/rockettoon>.
- NIH Peer Review Revealed provides a front-row seat to a peer review meeting
- NIH Tips for Applicants provides practical advice and tips
  - View both at:  
<http://cms.csr.nih.gov/ResourcesforApplicants/InsidetheNIHGrantReviewProcessVideo.htm>



## WHAT YOU NEED TO KNOW – **New** OSU Cost Share Guidelines

From the OSU Office of Research: Budget constraints are requiring the Office of Research to make some changes to its practices for providing cost-share funds for grant proposals. Beginning October 15, 2010, automatic cost sharing will no longer be available. Rather, requests will be considered case by case in light of available budget and strategic priorities, with particular consideration given to proposals with the following characteristics:

- Institutional cost share is **required** by the program announcement
- The total cost share from Ohio State sources does not exceed the percentage required by the program (i.e., we will not “overmatch”)
- The percentage of cost share requested from the Office of Research does not exceed 10% of the **total** cost of the equipment or other budget items for which cost share is requested
- The cost share requested from the Office of Research is not less than \$10,000

To allow us to make informed decisions, requests for cost share funds must be submitted to Michael DeWees ([Deweese.4@osu.edu](mailto:Deweese.4@osu.edu)) **one month** in advance of the proposal deadline and should include:

- A link to the program announcement
- The project title, PI name, and brief explanation of the project
- A draft budget showing the college and department cost-share commitments
- A request for a formal letter of support from the Office of Research if required for inclusion in the proposal

Some programs, especially those that support the purchase of large pieces of equipment or facility development, may require a substantial institutional contribution. The Ohio Board of Regents (OBR) Action Fund may provide part of the required matching funds for this type of project. Availability of Action Fund dollars is currently limited, and submission deadlines are firmly enforced. To request Action Fund matching, please contact Michael DeWees at least **6 weeks prior to the proposal deadline**, to ensure that OBR requirements and deadlines are met.

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