Dr. Ian Davis has been awarded a Great Lakes Regional Center for Excellence in Biodefense Individual Career Development Award. This award will support his research in nucleotide synthesis inhibitor therapy for hypoxemia in influenza infection. Dr. Davis, assistant professor in the Department of Veterinary Biosciences has also been published in a recent issue of the *American Journal of Respiratory and Critical Care Medicine*. Davis and colleagues infected mice with high doses of an influenza A virus to compare oxygen levels and fluid clearance in infected mice to those of healthy mice. Mice that were infected with the highest doses of flu experienced a steady decline in oxygen in their blood and higher levels of fluid in the lungs. Davis said the study showed that when the flu virus infects cells in the lung, those cells release small molecules, or nucleotides, that are part of the energy-producing and replication machinery of the cell. Those nucleotides then bind to receptors of other cells in a series of events that ultimately shut down the transport of sodium from airways to the blood. All of these interactions take place in the epithelium, the lining of the airways in the lungs. In infected lungs, when the sodium channels are damaged, fluid builds up in air spaces instead of being pumped across the airway lining and into the blood. To read more of the story, go to [http://researchnews.osu.edu/archive/lungfluid.htm](http://researchnews.osu.edu/archive/lungfluid.htm)
Recent Outreach and Engagement Activities: This issue of BIOS features some of the many ways faculty and staff of the Department of Veterinary Biosciences is involved in outreach and engagement in their community.

Dr. Jerry Masty and Mr. Chris Frasure Help Students Explore Anatomy

Mr. Chris Frasure and Dr. Jerry Masty helped coordinate an evening of “Exploring Anatomy” for students from the local Veterinary Explorers Post in Columbus. Jamie Berning, second year student, who serves as an advisor for the Explorers Post, enlisted the participation of a number of veterinary students from the College to provide a ‘hands on’ experience in gross anatomy for high school students with an interest in veterinary medicine. The Explorers heard short presentations about various body systems from our CVM student volunteers. The Explorers had the opportunity to “glove up” and touch, feel and examine specimens of the brain, heart, eyes, limbs and digestive organs. In addition, Dr. Maxey Wellman and Dr. Rebecca Urbiztondo, a first year clinical pathology resident, helped the Veterinary Explorers Post group conduct a hematology laboratory. Exploring is a national career education program that provides hands-on activities for high school students at a worksite typically after the school day. For information about the Explorers Post and the College of Veterinary Medicine’s participation, visit the website http://vet.osu.edu/4523.htm.

Dr. Radin Enjoys Mentoring Middle School Robotics Team

Dr. Judith Radin helped coach a FIRST Lego League (FLL) Robotics Team that took second place overall at the state of Ohio competition. They were one of 2 teams from Ohio that are advancing to the US National competition. The FIRST organization (FIRST is an acronym for “Inspiration and Recognition of Science and Technology”). Their mission is to inspire young people to be science and technology leaders, by engaging them in exciting mentor-based programs that build science, engineering and technology skills, that inspire innovation, and that foster well-rounded life capabilities including self-confidence, communication, and leadership. For more information on team, go to http://www.cougarrobot.com/.

http://www.thisweeknews.com/live/content/clintonville/stories/2009/02/18/0219cllego_ln.htm!
**Announcements**

**Workshop on Wound Healing**
Workshop 5: Wound Healing (March 9-13, 2009), Organizers: Philip Maini and Chandan Sen. This workshop aims to bring together experimentalists, clinicians and theoreticians working at the different scales apparent in this problem and to determine approaches for combining these in a multiscale modeling framework. Abnormal healing of wounds in, for example, diabetics, or aged patients, as well as formation of scar tissue, has resulted in the need to understand the fundamental processes involved in wound healing. For more information please visit the web site at [http://www.mbi.osu.edu/2008/ws5description.html](http://www.mbi.osu.edu/2008/ws5description.html)

**2009 Core Facilities Workshop**
A Core Facilities Workshop featuring ten OSUCCC Shared Resources will be held March 16th to 19th in 115 Biomedical Research Tower, 460 West 12th Avenue. The workshop, *A Practical Guide to Methods and Techniques in Biomedical Research* is designed to highlight the methods and technologies available to faculty and students who have need for these services as well as assist with experimental design, collecting data and preparing samples. A detailed schedule as well as registration is available at [www.osuccc.osu.edu](http://www.osuccc.osu.edu) website. Click on the Core Facilities Workshop icon to get the latest schedule and make your reservation to attend. **The workshop is free but registration is required.** Questions can be directed to Dr. Richard Burry, workshop organizer at burry.1@osu.edu.

**Lunch & Learn workshops**
The Faculty and Staff Wellness Program offers a full schedule of free workshops each quarter. Upcoming classes include: National Nutrition Month - Dietitian Panel, noon-1 p.m. Wednesday (3/4), 1167 Graves Hall; and What Makes Your Heart Beat? Passion Is the Key to Your Destiny, noon-1 p.m. Tuesday (3/10), Ohio Supercomputer Center Bale Conference Room. Registration required. Register online or call 292-1894. Earn points in the 2009 Your Plan for Health Incentive Program.

**Volunteers sought for Women in Science Day**
Approximately 300 girls in grades 6-8 and their teachers will attend the 25th **Women in Science Day** on the OSU campus on Thursday (3/19). Volunteers are needed to guide small groups of girls to and from various workshops. OSU students, alumni, faculty and staff of either gender are welcome to volunteer. Register by Monday (3/9). Fill out the form at [www.awisco.osu.edu](http://www.awisco.osu.edu/) and return it to womeninscienceday@gmail.com. Contact: Raquel Diaz-Sprague at diaz-sprague.1@osu.edu or 268-1488

**Wellness News**
*March is National Caffeine Awareness Month*
If you feel like you can’t function without your daily doses of caffeine, it may be time to cut back and look at the root cause of your fatigue. Whether it’s sleep deficiency, metabolic disorder or other concern, caffeine will only function as a superficial mask for chronic low energy-- and may actually worsen the problem. It’s also important to note that caffeine
stays in your system for up to eight hours, so it’s best to limit yourself to a cup of coffee or green tea in the morning.

**Selected Recent Grants/Publications/Presentations/Awards/Appointments:**

**Recent Publications:**


**Awards**

**Chelsea Martin** won 1st place in the poster award competition in Molecular Carcinogenesis and Chemoprevention at OSU Cancer Center Annual Meeting. Congratulations Chelsea!

**Jennifer McCleese** received the Luna Award for Advances in Canine Cancer Research American Kennel Club Canine Health Foundation: Genes, Dogs and Cancer: 5th International Canine Cancer Conference (Oral Presentation).

**Sherry Shu’s** manuscript entitled "A novel bioluminescent mouse model and effective therapy for adult T-cell leukemia/lymphoma" published in Cancer Research was selected by the College's Phi Zeta Manuscript Awards review committee at OSU for the National Phi Zeta Award competition in the basic research category.

**Recognition and Invitations**

**Cheryl Bolinger,** PhD of the Boris-Lawrie lab gave an invited talk at the National Institutes of Health, Lab of Gene Regulation and Development on Jan 20.

**Dr. Kathleen Boris-Lawrie** gave an invited talk at the Penn State College of Medicine on January 20.
Dr. Kathleen Boris-Lawrie attended the NIH VIROLOGY B grant review panel on February 4-5.

Dr. Nong Inpanbutr has been selected to attend the Bayer Animal Health Communication Project in June 25th-29th in New Haven, Connecticut.

Shuiming Qian of the Boris-Lawrie lab gave an invited talk at the UCLA School of Medicine.

Staff Profile: Luke Schneider is working as a Research Assistant in Dr. Larry Mathes laboratory. He graduated from The Ohio State University in the Spring 2008 with a biology and microbiology degree. He worked in Dr. Mathes' lab for over a year as a student and became a full-time employee last July. He is working on characterizing and enhancing viral (FIV/HIV) mutations that result in antiviral drug resistance in the Central Nervous System. In his free time, he likes to do various outdoor activities like snowboarding, mountain biking, traveling, backpacking and hunting. Welcome to the VBS family Luke!

For comments or suggestions for our newsletter please contact Ms. Elizabeth Hope Program Assistant at hope.18@osu.edu Department of Veterinary Biosciences.