This edition is covering the news of May, 2012, and announcing seminars and calendar events for June, 2012. Please email your news to treon.4@osu.edu by the end of each month.

Research Awards


Davis JP, Biesiadecki BJ, Janssen PM. Role of cardiac troponin in health and disease. NIH-NHLBI, $377,438, 08/01/10-04/30/15.

Wood JD. Mechanism of Lubiprostone – Associated nausea and dyspnea. Sucampo Pharm, $42,833, 07/01/11-07/01/12.

Ho HT, Gyorke S. Arrhythmogenic Adverse Effects of Cardiac Glycosides are Mediated by Redox Modification of Ryanodine Receptors. American Heart Association Great Rivers, Pre-doctoral Fellowship, $50,000, 07/01/12-06/30/14.

Milani-Nejad N, Janssen PM. Regulation of Cardiac Cross-Bridge Cycling Rate via Length-Dependent Post-Translational Modifications in Health/Disease. American Heart Association, Predoctoral Fellowship, $50,000, 07/01/12-06/30/14.

- Research Proposals Submitted
  - Davis JP. The Molecular Basis of Muscular Fatigue. Univ of Massachusetts, $423,918, 10/01/12-09/29/17.
  - Rafael-Fortney JA, Janssen PM. Mechanisms and synergies of therapeutic drug treatments in muscular dystrophy. NIH, $1,906,250, 04/01/13-03/31/18.
  - Periasamy M. Recruitment of skeletal muscle based non-shivering thermogenesis in health and disease. NIH, $1,875,000, 01/01/2013-12/31/17.
  - Ziol MT, Janssen PM, Davis JP, Gumina RJ. NOS1: indispensable for heart adaptations with exercise and potential therapeutic. NIH, $1,917,460, 04/01/13-03/31/18.
  - Wood JD. Anti-Enteric Nervous System Antibodies in IBS. NIH, $275,000, 02/05/13-05/13/15.

Publications


Fedorov VV, Glukhov AV, Chang R. Conduction barriers and pathways of the sino-atrial pacemaker complex: their role in normal rhythm and atrial arrhythmias. Am J Physiol. 2012; 302(9):H1773-83 (it was invited review by Fedorov VV)


**Conferences and Presentations**

Lori Hage, a Student Research Assistant in Dr. Fedorov’s lab, presented a poster at the Natural Math and Sciences Undergraduate Research Forum, April 20, 2012, and at the Denman Undergraduate Research Forum, May 9, 2012. Her poster was titled “Gap Junction, Connexin 43, and Fibrosis Densities Effect on Sinoatrial Node Conduction Pathway in Myocardial Infarcted Canine Hearts” authors Lori T. Hage, Dena Delaviz, Alexey V. Glukhov, Cynthia A. Carnes, George E. Billman, Vadim V. Fedorov.

Dr. Billman presented a talk at Massachusetts General Hospital/ Harvard University on “The Cardiovascular Effects of Omega-3 Polyunsaturated fatty Acids: a Reunion to Honor Dr. Alexander Leaf”. He was an invited participant and speaker, Concord MA, May 14, 2012.

At right is a picture of Dr. Billman with Dr. Alex Leaf. Alex was the Chair of the Department of Medicine at Harvard/Mass General and later the Chair of the Department of Preventive Medicine. He is a member of National Academy of Science. He is the foremost authority on the cardiovascular effects of omega-3 fatty acids (fish oil). The conference was to honor Dr. Leaf for his lifetime work and celebration of his 92nd birthday.

Drs. Billman and Fedorov attended the Heart Rhythm Society Meeting in Boston, MA, May 9 - 12. Dr. Fedorov presented two abstracts:


Dr. Wood did a 3-week lecture tour in China in April along with lab members Xi-Yu Wang, a Research Associate 1, Guo-Du Wang, Ph.D., a Research Assistant Professor, and Yun Xia, M.D., OSUMC Anesthesiology.

During the first stop in Beijing, I gave a lecture at Peking Union Medical College Hospital on Autoimmune Enteric Neuropathy and Functional Gastrointestinal Disorders and one on Neurogastroenterology: Food Allergy and Stress at the Capitol Medical University. The second stop was at Weifang Medical University where I spoke again on Food Allergy and Stress and received an appointment as Honorary Professor of Pharmacology.

The third stop was in Hangzhou where I gave the talk on Autoimmune Enteric Neuropathy and Functional Gastrointestinal Disorders in the Hospital for Integration of Traditional Chinese Medicine and Western Medicine. This was a good stop because 8 Ohio State 4th year medical students were there for a 4th year elective in Traditional Chinese Medicine. They were all enjoying the experience at Hangzhou and happy to see me and have lunch together.

At the end of the visit in Hangzhou, I flew back to Beijing and the Peking Union Medical College Hospital where they were holding a regional conference on inflammatory bowel disease. I gave a talk titled: Enteric Neuroimmunology In IBD during the conference.

During most of these stops Guo-Du gave talks on Enteric Dopamine and Expression of Parkinson’s Disease in the GI Tract or Enteric Nervous System Neuoplasticity. There was a big demand for Yun to talk on Obstetric Anesthesiology and consult in the surgical theatres.
Honors and Awards

Congratulations to Dr. Dale Vandre to receive the 2012 “Excellence in Teaching Award” for the Department of Physiology and Cell Biology. During the College of Medicine Awards Ceremony on Thursday, June 7, at the Ohio Union, Dr. Vandre will receive a plaque and $1,000 check.

Physiology Scholar Awards/Fellowships Announced

The 2012 Margaret T. Nishikawara Scholar Awards have been announced. Thanks to the generosity of Margaret T. Nishikawara, PhD, emeritus professor of Physiology and Cell Biology and a long-standing faculty member of Ohio State’s Department of Physiology, these awards are possible. In its third year, the Scholar Awards program is for senior graduate PhD and MD/PhD students and undergraduate students interested in pursuing a career in Physiology.

On March 30, during the the Physiology and Cell Biology Research Day, Sean Little, graduate research assistant in the lab of Jonathan Davis, PhD, was awarded the Nishikawara Scholar Award for Outstanding PhD Student. Little received a plaque with a $5,000 monetary award. Second runner up was Steve Roof, a graduate research assistant in the lab of Mark Ziolo, PhD. Roof received a plaque with a $2,500 monetary award.

Also awarded was the Nishikawara Pillar Awards for Outstanding PhD students. Sudha Suman Govindaraju, graduate research assistant in the lab of Beth Lee, PhD, and graduate teaching assistant in the Center for Life Science Education, received the Nishikawara Pillar Award for Contributions in Teaching. Hsiang-Ting Ho, graduate research assistant in the lab of Sandor Gyorke, PhD, received the Nishikawara Pillar Award for Contributions in Research. They each received a certificate with a $500 monetary award.

On May 4, the 2012 Nishikawara Summer Undergraduate Research Fellowship Awardees were announced. Jordan Brauner, a junior in Molecular Genetics/Pre-Med major, will be working this summer on “The role of kindling-3 in skeletal health” in the lab of Beth Lee, PhD. Kevin Gutierrez, a junior majoring in Spanish, will be studying “Correlation of attenuated spinal extracellular glutamate levels with anti-nociceptive efficacy of ceftriaxone” in the lab of Robert Stephens, Jr., PhD. Gutierrez aspires to attend medical school. Brian Hansen, a sophomore majoring in Biology, will be working in the laboratory of Vadim Fedorov, PhD, studying “3-D Immunolabeling of the Intact Mouse Sino-Atrial Node”. Hansen also hopes to attend medical school.

Congratulations to all the winners.
Department Seminars and Meetings

June 19, 2012, 12:00 p.m., 304 Hamilton Hall: Faculty Meeting

June 20, 2012, 11:00 a.m., 304 Hamilton Hall: Department Seminar: Margaret Westfall, Ph.D., University of Michigan

Reminders to Faculty

❖ OSU:pro is now Research in View for all University and College Faculty and Professionals reporting. Please keep your profile updated. All Promotion and Tenure, Annual, Teaching, Research, and other reports are now developed from the system for College and University uses.

Users can login to RiV by going to https://osu.researchinview.thomsonreuters.com (or by using this shortcut http://go.osu.edu/researchinview) and selecting the orange 'Sign In’ button. Ohio State users will use their OSU username (lastname.#) and password to access the system. There will be a short profile setup, and then faculty and staff will be able to access their Research in View profiles. Remember, all information from OSU:pro profiles has been transferred to RiV profiles, no re-entry of data is necessary.

❖ Research in View User Training for Faculty and Staff

The sessions below are an overview of the data management system, Research In View (the replacement for OSU:pro). This training will cover data entry (manually and using the recommendation system and search import functionalities), editing data, and creating reports. More information: http://ocio.osu.edu/elearning/services/riv/.

- June 26, 2012, 3:00pm–4:30pm, Rm 460B, Prior Health Sciences Library
- July 25, 2012, 1:00pm–2:30pm, Rm 460B, Prior Health Sciences Library
- August 30, 2012, 10:00am–11:30pm, Rm 460B, Prior Health Sciences Library

❖ Center for Education and Scholarship Training Courses

The College of Medicine’s Center for Education and Scholarship will host Lead.Serve.Inspire curriculum training courses for faculty in teaching skills and technology resources as the new curriculum is implemented this year. Training courses for June include:

- June 13 – Articulate 101, 4:00pm, 1175 Graves
- June 21 – Articulate 101, 7:00am, 1175 Graves
- June 25 – Articulate 101, 12:00pm, B-124 Graves
- June 26 – Articulate 101, 12:00pm, 1167 Graves

Click date above to register online. Contact Karla Vick at 292-0018 with questions.

Physiology and Cell Biology Faculty Committee Reports

Merit – Dr. Jakeman
Teaching – Dr. Lucas
Appointment, Promotion & Tenure – Dr. Strauch
Faculty Council – Dr. Lucas/Dr. Janssen
Graduate Recruitment – Dr. Davis/Dr. Biesiadecki
Seminar – Dr. Davis
Space – Dr. Rall
Department News and Announcements

As a correction to May’s newsletter: Nathan (or Nate) Hassel is a Research Assistant 1 in Dr. Biesiadecki and Dr. Davis’ lab.

Congratulations to Kaylan!!
Kaylan Haizlip, a GRA in Dr. Janssen’s lab, successfully defended her thesis entitled “Manipulations and Alterations to the Force-Frequency Response in Isolated Cardiac Muscle” on May 22. She will graduate from The Ohio State University on June 10, then will start a post-doc position in July in Dr. Leslie Leinwand’s lab at the University of Colorado.

Checking in with the Alumni!!
The Department has been working to create a database of Alumni from the Physiology Graduate Program and more recently (hmmm, like the last 12 years!) from the OSU Interdisciplinary Graduate Programs. We’ve been searching the internet for webpages and email addresses of our Alumni. If you know of any, email treon.4@osu.edu so we can add them to our list. We will be emailing them our monthly newsletter and hope they will send us updates on what they are doing now. It will be great to know what they are doing now and encouraging for our GRAs and Postdocs to see what might lie in their future.

We received an Alumni email this month from:

➔ David C Whitcomb MD PhD
Giant Eagle Professor of Cancer Genetics
Professor of Medicine, Cell Biology & Physiology, and Human Genetics
Chief, Division of Gastroenterology, Hepatology and Nutrition
University of Pittsburgh & UPMC
Room 401.4, 3708 Fifth Ave, Pittsburgh PA 15213
412 578 9515; Fax 412 578-9537
Laboratory: 2.35 Hillman Cancer Center, 5117 Centre Ave. Pittsburgh, 15213.
412 623 0021.
URL: www.pancreas.org

Attached is an invited “Perspectives” paper in Nature Review Gastroenterology & Hepatology (advanced online publication). The paper addresses a fundamental question about personalized medicine, and why it has been so difficult for translational research projects to be successful. The paper also describes a revolutionary approach to clinical practice to implement a new paradigm of genetic sequencing and interpretation into clinical practice. To our knowledge, the UPMC Pancreas Center of Excellence in the Digestive Disease Center, UPMC Presbyterian Hospital is the first clinical application of advanced sequencing technology in clinical practice for any chronic inflammatory diseases syndrome.

Personalized_Medicine_Whitcomb_nrgastro 2012.pdf
Employee Self Service

**Employee Self Service** offers a single, secure source for faculty and staff to manage personal information. ESS offers two components: **eProfile**, allowing you to update personal demographic information (i.e. phone number, address, race, and ethnicity); and **eBenefits**, allowing you to enroll in and manage benefit elections when eligible to make them (i.e. at hire/rehire, in a newly-eligible position, or during open enrollment).

Log in to **ESS** to verify your personal information, and become familiar with the system.

2012 Campus Campaign Results

With the end of the Campus Campaign in May, the following results were calculated:
- Campuswide participation – 38% equaling 10,847 employees
- COM participation – 41%
- **PCB participation – 29% equaling 15 employees**

Thanks to everyone who is participating this year!

OSU Scientists and Engineers Encourage High School Science Students

Have you ever wanted to talk to a high school class or science club about your passion for science but didn't know how to get started? Sigma Xi's "Meet a Scientist" program will match you up with a high school class or club in the Columbus area that is looking for a scientist or engineer in your discipline. All OSU scientists and engineers are welcome: faculty, postdocs and grad students. Email peeples.15@osu.edu with your name and discipline. Sigma Xi, Ohio State Chapter has been supporting science since 1898. -- > Read more: [http://sigmaxi.org.ohio-state.edu/](http://sigmaxi.org.ohio-state.edu/)

6th Annual Ohio Biomedical & Pharma Career Fair

Twenty employers enjoyed a record turnout of job seekers at May 23’s **6th Annual Ohio Biomedical & Pharma Career Fair** in Columbus. The collection of employers and high-tech job openings attracted 260 job candidates, ranging from current college students to professionals with decades of industry experience. Some of the exhibitor-recruiters talked about openings as the May 23 career fair wrapped up. This 4 ½ minute video includes brief snippets from Aerotek, Agano Solutions, PharmaForce, Alliance Scientific, Ben Venue, Diagnostic Hybrids, Clarke Engineering, Amresco, and Advanced Testing Labs. Check it out, and feel free to share with relevant departments, students, alumni, etc.

Costco Membership Reception for Staff Sunday

Costco Wholesale will sponsor a reception for COESRA members **Sunday (June 3)** where staff and their families can learn about the benefits of being a Costco Wholesale member. The reception is from 11 a.m.-4 p.m. at the Costco Wholesale location at 1500 Gemini Place. There will be special membership sign-up incentives and light refreshments. You do not need to be a current Costco member to attend. Read more.

**University Hours for Summer 2012 Begin June 11**

Official university summer hours of 7:30 a.m.-4:30 p.m. will be implemented effective Monday (6/11). Regular hours of 8 a.m.-5 p.m. will resume Monday (8/20). Offices that serve students or the public should set or maintain hours that reflect their customers' needs. Offices are responsible for communicating any schedule changes to their customers.

**Spike Out Sepsis Volleyball Tournament Open to Spectators, Supporters**

Team registration for the fourth annual Spike Out Sepsis sand volleyball tournament on June 23 is closed but spectators and supporters are welcome. Enjoy live entertainment, a silent auction, a 50/50 raffle and kid’s activities. Food and drinks will be available. The tournament is sponsored by the Medical Center and will be held from 11 a.m.-8 p.m., with a CME offering at 10 a.m., at The Bogey Inn, 6013 Glick Road. **Spike Out Sepsis**, raises awareness and money while fostering relationships among the community, sepsis survivors and healthcare professionals. Contact Jennifer MacDermott at 293-8830 for more information.
Credit hour requirements for post-candidacy and graduating master’s students: Summer 2012
Because of the shortened session this summer, the university has made a decision to lower the number of required credits for the following two groups of graduate students: post-candidacy doctoral students who are enrolling summer session and master’s students who will graduate summer 2012 and are taking research credit hours only. Details at www.gradsch.osu.edu/semester-conversion1.html. Graduate students and faculty who have questions should first contact their home department or graduate program. -- > Contact: Ann Salimbene, Tim Watson, or Shari Breckenridge, 292-6031, in the Graduate School.

Call for applications for Pelotonia-funded research awards
Ohio State's Comprehensive Cancer Center is accepting applications for the 2012 Intramural Research Program Awards, created by funds raised through Pelotonia. The funding opportunities for cancer researchers include six award categories: Team Science Awards, Idea Awards, Community Partnership Awards, Clinical Trials Awards – Protocol-Specific Research Support, Bridge Funding Award, and Center for Regenerative Medicine and Cell-Based Therapies Joint Awards. Applications are due Friday (6/15) and are available at cancer.osu.edu/research/cancerresearch/irp. -- > Contact: Christine Scarcello at 293-4150
# Conference Room Calendar – 304 Hamilton Hall

- subject to frequent changes - contact Carolyn or Mary for updates

## JUNE 2012

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