



FYI: THE NEWSLETTER OF THE DAVIS HEART AND LUNG RESEARCH INSTITUTE AT OSU

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September 2006

### Sara Clinical Trial Seeking Participants

A national multi-center study led by pulmonary researchers at OSU Medical Center aims to determine whether treating acid reflux -- suffered by up to 35 percent of asthmatics -- could play a role in relieving asthma symptoms, especially by reducing the frequency of asthma attacks.

John Mastronarde, MD, a pulmonologist at OSU Medical Center and director of its Asthma Center, is the project leader for the trial, and OSU Medical Center is the lead center among 20 universities nationally that are currently enrolling adult patients with known asthma for six months to see if taking a proton pump inhibitor can alleviate asthma symptoms. Proton pump inhibitors prevent the release of acid in the stomach and intestines. The clinical trial, called SARA (Study of Acid Reflux and Asthma) is seeking 500 patients.

For more information on these and other ongoing asthma clinical trials, call 293-4978 or email [lung.research@osumc.edu](mailto:lung.research@osumc.edu).

### Electrophysiologists to join OSUMC

Dr. Fred Sanfilippo and Pete Geier, along with Drs. Michael Grever and William Abraham, recently announced that five electrophysiologists will be joining OSUMC as of November 1. These physicians have been with MidOhio Cardiology Inc. in Columbus and have national reputations for both their clinical care and research efforts in electrophysiology.

As academically trained physicians, these individuals have watched the advancements of OSUMC's heart program during the past few years and they approached our cardiology leadership about how they might be a part of our program. They feel OSU offers their team enhanced opportunities for pursuing new research endeavors and enhanced clinical care for their patients. In addition, they have a strong desire to participate in the training of the next generation of electrophysiologists, which they will be able to do at Ohio State.

The physicians joining Ohio State are: Ralph S. Augostini, MD, Emile Georges Daoud, MD, ACC, John D. Hummel, MD, FACC, Steven J. Kalbfleisch, MD, and Raul Weiss, MD, FACC.

### Join OSU Women's Basketball Coach for the Blow the Whistle on Asthma! Walk

Walk with Ohio State Buckeyes Women's Basketball Coach Jim Foster as a member of OSU Medical Center's team at the 4th Annual "Blow the Whistle on Asthma Walk." The walk will take place **Saturday, Sept. 30**, at Easton Town Center. Registration begins at 8 a.m. and the 5K walk starts at 9 a.m.



The American Lung Association will use the proceeds from the Asthma Walk to fund programs and research to help find a cure for asthma, such as those at the Asthma Clinical Research Center at OSU. By participating, you will also help OSUMC reach its team goal of raising \$6,000 and 100 participants. Team members will receive a team shirt for their participation. Registration ends Sept. 28. If you have questions, contact Sarah Varekojis, OSUMC's team captain, at varekojis.16@osu.edu. Register online at [www.mrsnv.com/evt/e01/team.jsp?id=1085&tid=434](http://www.mrsnv.com/evt/e01/team.jsp?id=1085&tid=434).

## Kudos

**Catalina Alionte**, a graduate student in **Jack Rall's** laboratory, had an abstract accepted for a poster presentation for the November 2006 national American Heart Association meeting. The title is "Increasing the rate of cardiac contraction by high calcium binding affinity troponin C mutant" by Catalina Alionte, Jack Rall, Svetlana Tikunova, and Jonathan Davis.

**Veronique A. Lacombe**, DVM, PhD, Dipl ACVIM have been awarded on July 2006 a Scientific Development Grant (SDG) from the National American Heart Association to study common mechanisms of diastolic dysfunction and arrhythmias in diabetes (from 07/01/2006 to 06/31/2011). Dr. Lacombe is in the laboratory of **Cynthia Carnes**.

Professor **Rafal Nazarewicz** from Maritime University, Poland, is spending a sabbatical in Dr. **Pedram Ghafourifar's** lab. He is studying the effect of ketosis on mitochondrial bioenergetics.

According to the *U.S. News & World Report* 2007 edition of America's Best Colleges released in August, **The Ohio State University** has been named 19th among the nation's top 50 public universities, up from 21st in 2005, 22nd in 2004 and 2003, and 24th in 2002. "This is the latest evidence of the clear, steady increase in the academic reputation of this great university," said OSU President Karen Holbrook.

## New Members

Membership for the following individual(s) was recently approved. Please join us in welcoming them to the institute!

**Christine Lawless, MD, MBA, CAQSM, FACC**; Member (Cardiovascular Medicine)  
**Min Pu, MD, PhD, FACC**; Member (Cardiovascular Medicine)



## Recent Publications

Balagopal A, MacFarlane AS, Mohapatra N, Soni S, Gunn JS, Schlesinger LS. Characterization of the receptor-ligand pathways important for entry and survival of *Francisella tularensis* in human macrophages (in press, *Infect and Immun*).

Hall-Stoodley L, Watts G, Crowther JE, Balagopal A, Torrelles JB, Robison-Cox J, Bargatze RF, Harmsen AG, Crouch EC, Schlesinger LS. Mycobacterium tuberculosis binding to human surfactant proteins A and D, Fibronectin and small airway epithelial cells under shear conditions. *Infect. Immun.* 74:3587-3596, 2006.

Hiranadani N, Varian KD, Monasky M, Janssen PML. Frequency-dependent contractile response of isolated cardiac trabeculae under hypo-, normo-, and hyper-thermic conditions. *J Appl Physiol.* 100:1723-1732, 2006.

Montague CR, Hunter MG, Gavrilin, MA, Phillips GS, Goldschmidt-Clermont PJ, Marsh CB. Activation of estrogen receptor alpha reduces aortic smooth muscle differentiation. *Circ Res*. 2006 Jul 27; [Epub ahead of print].

Olakanmi O, Schlesinger LS, and Britigan BE. Hereditary hemochromatosis results in decreased iron acquisition and growth by *Mycobacterium tuberculosis* within human macrophages (in press, J Leuko Bio).

Parsa KVL, Ganesan LP, Rajaram MVS, Gavrilin MA, Wewers MD, Schlesinger LS, Gunn JS, Tridandapani S. Macrophage pro-inflammatory response to Francisella novicida infection is regulated by the SH2 domain-containing inositol 5' phosphatase SHIP. *PLOS Pathogens* 2:0681-0690, 2006.

Sarkar, A., M. W. Hall, M. Exline, J. Hart, N. Knatz, N. T. Gatson, and M. D. Wewers. 2006. Caspase-1 Regulates E. coli Sepsis and Splenic B Cell Apoptosis Independently of IL-1 {beta} and IL-18. *Am.J.Resp.Crit.Care Med*.200604-2546OC.

Stull LB, Hiranandani N, Kelley MA, Leppo MK, Marban E, Janssen PML. Comparison of contractile function of isolated myocardium between FVBN, C57BL/6, and SV129 mice. *Eur J Physiol*. 2006;452:140-145.

Stypmann J, Janssen PML, Prestle J, Engelen MA, Kögler H, Lüllmann-Rauch R, Eckardt L, von Figura K, Landgrebe J, Mleczko A, Saftig P. LAMP-2 deficient mice show depressed cardiac contractile function without significant changes in calcium handling. *Basic Res. Cardiol*. 2006;101:281-291.

Sun B, Pu M, et al. Preoperative Pulmonary Hypertension Is Associated with Postoperative Left Ventricular Dysfunction in Chronic Organic Mitral Regurgitation: An Echocardiographic and Hemodynamic Study. *Journal of the American Society of Echocardiography*. Aug 2006, 19(8): 1051-1055.

Torrelles JB, Azad AK, Schlesinger LS. Fine discrimination in the recognition of individual species of phosphatidyl-myo-inositol mannosides from *Mycobacterium tuberculosis* by C-type lectin pattern recognition receptors. *J. immunol*. 177:1805-1816, 2006.

Varian KD, Raman S, Janssen PML. Measurement of myofilament calcium sensitivity at physiological temperature in intact cardiac trabeculae. *Am J Physiol Heart Circ Physiol*. 290:H2092-2097, 2006.

Wang Y, Zeigler MM, Lam GK, Hunter MG, Eubank TD, Khramtsov VV, Tridandapani S, Sen CK, Marsh CB. The role of the NADPH oxidase complex, p38 MAPK, and Akt in regulating human monocyte/macrophage survival. Accepted for Publication, *American Journal of Respiratory Cell and Molecular Biology*, 2006.

## Business Office Customer Guide Available

The DHLRI Business Office is committed to providing superior customer service and is pleased to announce the arrival of the Business Office Customer Guide. Our goal is to assist you by providing the most recent policies implemented here at OSU, as well as providing the appropriate procedures involved with purchasing and travel while using DHLRI OSU Funds. For a copy, please contact the DHLRI Business Manager at [karel.smith@osumc.edu](mailto:karel.smith@osumc.edu).

## Resources Page Now Available on DHLRI Website

The institute's website now includes a page of resources for faculty and staff. The page is titled "For Faculty & Staff" in the About Us section of the site. Current posted resources include the shared equipment list, a list of poster printing vendors, and information from the recent town meeting. The link is <http://heartlung.osu.edu/6160.cfm>.

## OneSource Address Change

If you use OneSource from home, please be aware that the URL (address) has changed. Instead of <http://onesource.medctr.ohio-state.edu>, please use <http://medicalcenter.osu.edu> and click on the "Employees Only" link.

## Upcoming Changes to Medical Center Outlook Global Address List

Based on feedback that MedCenter IS has received from faculty, staff and students, they will be changing the way the Outlook Address Book is organized starting September 30, 2006. As part of this change, MedCenter IS will be listing employees by last name (e.g. 'Lastname, Firstname'). Currently the address list is organized by first name (e.g. 'Firstname Lastname').

With the number of Outlook users listed in the global address book, organizing entries by last name allows for an easier method to locate the recipients of your email, as you will no longer need to consider first name variations when selecting recipients.

This change will have no impact on your email address. However, when you send email, recipients of your message will now see mail from you in the 'Lastname, Firstname' format in their email inbox. This will be a display name change only, and will have no impact on your actual email address.

For more information regarding these changes and other changes to Outlook, visit 'Outlook' under 'Featured Links' on the OneSource homepage, or you can call the IS Help Desk at 293-3861.

## Hazard Communication Training

Please be aware that 'Safety Sam', 'Plain Talk' and 'MD Plain Talk' may NO LONGER be used to fulfill the OSHA HAZCOM training requirement. All HAZCOM training is now online at the Environmental Health and Safety (EH&S) website (<http://www.ehs.ohio-state.edu>) under 'training'.

There are **two** HAZCOM training programs available: One is for clinical/non-laboratory based research ('Hazard Communications for Clinical Labs'), and the other ('Generic Hazard Communications for all Non-Lab Personnel') is more suitable for administrative/office. In the College of Medicine, either training may be used to fulfill the requirement. Those taking the training will need their OSU e-mail identification numbers and password. **The certificate must be printed and the test taken to receive credit.**

Electronic records will be updated approximately on a monthly basis on the COM/OHS Safety Page under the 'Generic Safety Training Records' section. If you have questions, contact the COM OSHA Coordinator Adrienne Frostholtm at [frostholtm.1@osu.edu](mailto:frostholtm.1@osu.edu).



## 9th Avenue Garage Closes September 1 for Renovation

On Sept. 1, the 9th Avenue Garage will close for renovations including floor repairs, lighting upgrades and the replacement of the elevators. The work is expected to last until December. Faculty and staff may use the North Cannon, South Cannon or Neil Avenue Parking garages and the Buckeye Lot while this garage is closed. Details about the Buckeye Lot and shuttle service are available at [www.tp.ohio-state.edu/alerts/pololotclosure.shtml](http://www.tp.ohio-state.edu/alerts/pololotclosure.shtml). More information about the closure is available at [www.tp.ohio-state.edu/alerts/9thavegarageclosure.shtml](http://www.tp.ohio-state.edu/alerts/9thavegarageclosure.shtml).

## Polo Lot Now Reopened

The Polo Lot has reopened earlier than expected. The new paved portion provides approximately 150 new parking spaces. The lot has been assigned for use to faculty and staff with A, B and C permits. The paved portion to the north can be used by those with A and B permits only. The new paved portion can be used by those with A, B or C permits. Other improvements made in the Polo Lot include a drainage system, lighting, new curbs, pedestrian access and lighted emergency telephones. The project was a direct result of staff feedback.

## 1<sup>st</sup> Annual Pulmonary, Allergy, Critical Care and Sleep Medicine Research Day

The Division of Pulmonary, Allergy, Critical Care and Sleep Medicine will host the 1<sup>st</sup> Annual Research Day on September 22, 2006 in the Davis Heart and Lung Research Institute. The division has grown exponentially in research in the last several years and continues to expand across several disciplines on campus and outside. The Research Day provides a tremendous opportunity to celebrate the research accomplishments of the division and also to share them with our local scientific community. Contact [Susheela.Tridandapani@osumc.edu](mailto:Susheela.Tridandapani@osumc.edu) or [Narasimham.Parinandi@osumc.edu](mailto:Narasimham.Parinandi@osumc.edu) for more information.

## Grant Proposal Writing Workshops Sept. 27 & 28

The College of Medicine's Office of Research will continue its Grant Proposal Writing Series by offering workshops 3 and 4 on Sept. 27 & 28. Workshop 3 in the series, **Writing Successful Grants**, will be held on Sept. 27 from 9:30 a.m.-1 p.m. in Room 160, Meiling Hall. Workshop 4, **Building the NIH Grant Proposal**, will be held on Sept. 28 from 9 a.m.-12:30 p.m. at the Longaberger Alumni House, 2200 Olentangy River Road in the Sander Grand Lounge.

Both workshops will be lead by Robert Porter, PhD, who has more than 30 years of experience as a tenured professor, private consultant and research administrator. For detailed information about each workshop, refer to these dates on OneSource's calendar of events. Please e-mail [rees.1@osu.edu](mailto:rees.1@osu.edu) to register (registration is required). For more information about either workshop, contact Angela Street-Underwood, 292-5857, [street-underwood.1@osu.edu](mailto:street-underwood.1@osu.edu).

## Holiday Closure

The university will be closed to observe Labor Day on **Monday, September 4**.



## September Programs and Events

**September 1: Research in Progress;** Narasimham Parinandi; Pulmonary, Allergy, Critical Care, and Sleep Medicine.\*

**September 8: Research in Progress;** Pedram Ghafourifar, PhD; Surgery.\*

**September 15: Research in Progress;** Haitao Li, PhD; Internal Medicine.\*

**September 20: Discovery Series:** Jeanne Nerbonne, PhD; Washington University. Noon, 170 Davis Heart & Lung. “*Molecular Insights into Cardiac K<sup>+</sup> Channel Diversity, Functioning and Remodeling.*”

**September 22: 1<sup>st</sup> Annual Pulmonary, Allergy, Critical Care and Sleep Medicine Research Day;** 7:30 am - 4:00 pm, 170 Davis Heart & Lung, DHLRI Lobby, Neuropsych Gym.

**September 27: Discovery Series:** Francis J. Klocke, MD; Northwestern University. “*Cardiac MRI - What Can It Add in 2006?*” Noon, 170 Davis Heart & Lung.

**September 29: Research in Progress;** Jonathan Davis; Physiology & Cell Biology.\*

*\*Research in Progress presentations are held at noon on Fridays in 165 Davis Heart & Lung.*

## New Awards: Federal, State, Foundations

PI: John Mastronarde  
Title: Asthma center healthy homes initiative  
Sponsor: City of Columbus  
Amount: \$6,000  
Start date: 7/17/06      End date: 1/31/07

PI: John Mastronarde  
Title: Asthma clinical research center – incentive plan  
Sponsor: American Lung Association  
Amount: \$30,614  
Start date: 7/1/06      End date: 6/30/07

PI: Dmitry Terentyev  
Title: Abnormal protein-protein interactions in sudden cardiac death  
Sponsor: American Heart Association, National  
Amount: \$260,000  
Start date: 7/1/06      End date: 6/30/10

## New Industry Contracts

PI: Garrie Haas  
Title: Passive acoustics investigation of BSCC heart valve  
Sponsor: Advanced Computational & Engineering Services  
Start date: 8/1/06      End date: 7/31/07

PI: Subha Raman  
Title: REVEAL study  
Sponsor: Duke University  
Start date: 7/27/06      End date: 4/30/07

## New Intramural Support

Co-PI: Paul M. L. Janssen  
Co-PI: Paul T. Martin.  
Title: Humanizing glycosylation to humanize disease progression in mdx mouse model of duchenne muscular dystrophy  
Sponsor: CCRI/OSUCOM Research Collaboration Award  
Amount: \$100,000  
Start date: 7/1/06      End date: 6/30/08

For more information on this newsletter, contact the editor at [Chris.Brakenbury@osumc.edu](mailto:Chris.Brakenbury@osumc.edu). The newsletter is also available online at <http://heartlung.osu.edu>. To unsubscribe, please contact Chris via e-mail.

