

DHLRI

FYI



DOROTHY M. DAVIS
HEART & LUNG
• RESEARCH INSTITUTE •

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

November 2005

Institute Celebrates 5 Years of Research

Throughout the month of October, the Institute celebrated its fifth anniversary with several programs and events. Each of the Institute's four program directors led symposia on their respective areas, followed at the end of the month by the State of the Institute Address by Dr. Zweier. Many of the accomplishments of the last five years were highlighted throughout the month, in addition to previewing the directions and discoveries to come.

A faculty and staff picnic was held on October 14, and featured opening remarks by Dr. Zweier and Bill Wells, chairman and president of the Davis Foundation and nephew of Dorothy M. Davis.

Bill Wells shared memories of his aunt, who this Institute is proudly named after: she was "always looking not into the future, but at the future. She was a person who lived her life to the fullest... She loved the cutting edge of research and everything that it stood for. My aunt had a presence about her that when she entered a room everyone knew it. The first time I walked through the front doors of this gorgeous building, you could feel that same presence... the presence of knowing that research being done here was going to affect a lot of people in the future... the presence of knowing that the research being done could be taken from the bench to the bed and a lot of lives were going to be affected. This beautiful building and the great things being done here remind me of the beautiful woman that was my aunt, and as long as there is research being done here, my aunt will live forever."



Jay Zweier and Bill Wells serve up burgers at the DHLRI Faculty and Staff Anniversary Picnic

A special "thank you" to Mr. Wells for taking the time to share his thoughts about his aunt. Thanks also to all of the anniversary committee members, who worked for several months to plan the month-long celebration: Alan Bakaletz, Chris Brakenbury, Angie Collier-Crespin, Stephanie Crawford, Molly Fontana, Patty Hatton, Tim Mazik, Jennifer Reimer, Lorri Fowler, Mark Wewers, and Valerie Wright.

OSU Implants Nation's First HeartPod

Members of Ohio State's Heart Program implanted the nation's first permanent device for monitoring and treating congestive heart failure. This investigational cardiac device, called HeartPod, allows patients to monitor and make changes to their treatment regimen, if needed, based on specifications pre-set by their physician. "This technology offers advantages for patients that can improve their care and quality of life," says Garrie Haas, MD, Cardiovascular Medicine, who is the study's principal investigator at OSU.

William Abraham, MD, director of Cardiovascular Medicine, is principal investigator of the HeartPod multi-site international study. The device was implanted by OSU cardiologists Charles A. Bush, MD, and Charles Love, MD.

Nanodevice Could Improve Medical Diagnostics

The Oct. 3 edition of the journal Applied Physics Letters features a cover story by DHLRI investigators studying functional abstraction as a systems design approach for making nanodevices that could be useful in medical diagnostics. To illustrate the systems design approach, the journal cover focuses on a class of targeted nanoparticles whose use as magnetic resonance imaging (MRI) contrast agents has been pioneered by these scientists for atherosclerosis.

"The purpose of the targeted nanoparticles is to allow MRI detection of impending heart attacks, strokes and other vascular events before they happen, to allow intervention before the catastrophic event," says Stephen Lee, PhD, an associate investigator in the Institute and senior author of the article. Dr Lee is an associate professor in Biomedical Engineering. Edward Eteshola, PhD, senior research associate, was a co-author of the article.



"Power to Change Lives Campaign" Kicks Off November 2

"The Power to Change Lives" campaign is the first fund-raising program focused solely on furthering the mission of The Ohio State University Medical Center. With an overall goal of \$500 million dollars, it has the potential to positively impact millions of lives as the mission of the Medical Center is advanced.

"The success of 'The Power to Change Lives' campaign will help us take our three-part mission to a higher level," says Fred Sanfilippo, MD, PhD, senior vice president and executive dean for health science, dean of the College of Medicine and Public Health and CEO of the OSU Medical Center.

Faculty and staff are invited to the Medical Center Plaza on Wednesday, November 2nd at noon to be among the first to learn more about the campaign. Join the celebration and find out how we all play a role, pick up a campaign souvenir and have light refreshments. A "Power to Change Lives" activity is also planned for UH East and the Martha Morehouse Medical Plaza at a later date. Watch for more details in This Week and on One Source.

Kudos

The Women's Place Staff Leadership Series has appointed **Lorri Fowler, MBA** to serve on their 2005-2006 committee. The Women's Place (TWP) is committed to expanding opportunities for women's growth, leadership and power at the university. This year-long project will focus on providing both skill building and leadership development activities for all participants. This opportunity will also foster a supportive, collegial network of women to create potential leaders

from groups that have been traditionally underrepresented in key leadership roles. Congratulations Lorri!

Peter Koo, PhD has become one of the newest citizens of the United States. Congratulations Peter!

Donna Kusewitt, DVM, PhD, ACVP was an invited speaker at the Montagna Symposium on the Biology of the Skin, October 13-17, 2005 in Gleneden Beach, OR. The title of her presentation was EGF Modulates Slug Expression During Cutaneous Wound Reepithelialization.

Faculty and Staff of the Institute and the Division of Pulmonary, Critical Care, and Sleep Medicine joined the OSU Respiratory Team to participate in the **American Lung Association 3rd Annual Blow the Whistle on Asthma Walk** on October 1. Thanks to all those who participated. Your pledges, participation and support are greatly appreciated and contributed to the overall success of the Walk. To date, over \$105, 400 has been raised to fight asthma.

Cheryl Kulmala Joins Grants Office!

The DHLRI Grants Office is please to welcome Cheryl Kulmala as a new Program Coordinator. Cheryl will assist Elaine Wakely with the development, preparation, and submission of grant proposals and with funding searches. In addition, she will track DHLRI investigator funding, update the DHLRI database, and assist with in-service grants training. Please stop by Cheryl's office to congratulate her!

Nominations for Awards due November 4

The Education Committee is accepting nominations for the 2005 Distinguished Mentor, Distinguished Research Staff, and Distinguished Post-Doc Awards. Nominations are due by November 4. See Chris Brakenbury in 110 DHLRI for eligibility information. Awards will be announced in December.

Bucks for Charity

The Ohio State University's 2005 Community Charitable Drive, "Bucks for Charity," runs through December 2. "Bucks for Charity" is a proud Medical Center tradition that gives us an easy way to donate to the organizations of our choice in the form of a one-time gift or to contribute over a year using payroll deduction. The Medical Center's goal is to raise \$248,000 and for 1,070 faculty and staff to participate in the campaign.



The Resource Guide, which has information about participating organizations and how to contribute, is available at <http://hr.osu.edu/special/CCDresourceguide.pdf>. Watch OneSource for more information about the "Bucks for Charity" community drive and the special events that will be held to raise donations. You can return your completed pledge card to the front desk in room 110 DHLRI. For more information, contact the Institute's Bucks for Charity volunteer Cheryl Kulmala at cheryl.kulmala@osumc.edu.

USAC Town Meeting with President Holbrook Nov. 7

The University Staff Advisory Committee invites staff to join President Karen Holbrook, PhD, for a town meeting on issues affecting staff members. The event will take place Monday, Nov. 7, from noon-1 p.m. in the Prior Health Sciences Library. President Holbrook, Executive Vice President and Provost Barbara Snyder and others will help answer your questions and inform you about upcoming issues of interest to staff members. If you have a question you would like addressed, please send it to townmeeting@osu.edu or call 688-USAC (8722).

Benefits Open Enrollment

Benefits Open Enrollment for 2006 will begin on October 31 and will run through November 18, 2005. Benefit changes made during this time period will be updated effective January 1, 2006 through December 31, 2006. Employees will receive information about open enrollment and benefit changes at their home address. Employee's can update their benefits online starting October 31, 2005 at www.hr.osu.edu/oe If you have any questions about open enrollment or any benefit changes please contact the Office of Human Resources at 292-1050.

Holiday Closures

University offices will be closed to observe the following holidays in November:

Friday, November 11: Veterans Day
Thursday, November 24: Thanksgiving Day
Friday, November 25: Columbus Day observed

Building Safety Training

All COMPH/OHS faculty, students and staff who are located in College of Medicine/Health Sciences buildings (this includes DHLRI and TMRF) are required to attend a one hour, one time only training session on building safety. This is currently the only mandatory safety training not offered for credit online.

Be sure to sign the registration sheet in order to document your attendance. You will need your University ID number. Those arriving more than 10 minutes late will not be admitted. If you have questions about this training, call Adrienne Frostholm at 292-7747 (frostholm.1@osu.edu). The next offered courses are:

Wednesday, November 16th

11:00 am - 12:00 pm
107 Hamilton Hall

Wednesday, December 14th

11:00 am - 12:00 pm
165 Davis Heart and Lung Research Institute



November Programs and Events

November 3: AHA Practice Symposium; 159 Davis Heart and Lung, 2:00 - 5:00 pm.

November 4: Heart Failure at the Shoe IV; 170 Davis Heart and Lung, 7:30 am - 5:10 pm.
Registration information on-line at <http://ccme.osu.edu>.

November 7: AHA Practice Symposium; 165 Davis Heart and Lung, 1:00 - 4:00 pm.

November 30: DHLRI Core Labs Open House; 170 Davis Heart and Lung, 9:00 am - 12:00 pm.

**Please note: due to holidays and conferences, there will be no Research in Progress or Discovery Series programs during the month of November. The Research in Progress series will resume on December 2.*



Recent Publications

Ai, J., Maturu, A., Johnson, W., Wang, Y., Marsh, C.B. and Tridandapani, S. (2005) SHIP-2 regulates FcgR-mediated phagocytosis in murine macrophages independently of SHIP-1. *Blood* 2005 Sep 22; [Epub ahead of print]

Arnoux V, Come C, Kusewitt D, Hudson L, Savagner P. Cutaneous wound healing: a partial and reversible EMT. In: *Rise and Fall of Epithelial Phenotype: Concepts of Epithelial-Mesenchymal Transition*, ed. Savagner P, Springer, Berlin, pp. 111-134, 2005.

Choi C, Hudson LG, Savagner P, Kusewitt DF. An in situ hybridization technique to detect low-abundance Slug mRNA in adherent cultured cells. In: *In Situ Hybridization Protocols 3rd Edition*, ed. Darby I, Hewitson TD, Humana Press, Totowa, 2005.

Feldman DS, Carnes CA, Abraham WT, Bristow MR. Mechanisms of Disease: b-adrenergic receptors—alterations in signal transduction and pharmacogenomics in heart failure (review). *Nature Clin Pract Cardiovasc Med* 2005; 2: 475-83.

Joshi, T., Ganesan, L.P., Cao, X. and Tridandapani, S. (2005) Molecular analysis of expression and function of hFcγRIIb1 and b2 isoforms in myeloid cells. *Mol. Immunol.* 2005 Jul 25; [Epub ahead of print]

Kubalova Z, Terentyev D, Viatchenko-Karpinski S, Nishijima Y, Gyorke I, Terentyeva R, da Cunha D, Sridhar A, Feldman DS, Hamlin RL, Carnes CA, Gyorke S. Abnormal intra-store calcium signaling in chronic heart failure. *Proc Natl Acad Sci U S A.* 2005;102:14104-9.

Nishijima Y, Feldman DS, Bonagura J, Ozkanlar Y, Jenkins PJ, Abraham WT, Hamlin RL, Carnes CA. Canine Nonischemic Left Ventricular Dysfunction: A Model of Chronic Human Cardiomyopathy. *J Card Failure* 2005; 11: 638-44.

Pengal, R.A., Ganesan, L.P., Wei, G., Fang, H., Ostrowski, M.C., and Tridandapani, S. (2005) Lipopolysaccharide-induced production of interleukin-10 is promoted by the serine/threonine kinase Akt. *Molecular Immunology (In Press)*

Podojil, J.P. and Sanders, V.M. (2005). CD86 and Beta2-Adrenergic Receptor Stimulation Regulate B cell Activity Cooperatively. *Trends Immunol.* 26:180-185

Potapenko, D.K., Bagryanskaya, E.G., Grigoriev, I.A., Maksimov, A.M., Reznikov, V.A., Platonov, V.E., Clanton, T.L., Khramtsov, V.V. Quantitative determination of SH groups using ¹⁹F NMR spectroscopy and disulfide of the 2,3,5,6-tetrafluoro-4-mercaptobenzoic acid. *Magn. Reson. Chem* 43:902-909, 2005.



Grants Office Tip of the Month: Other Support (NIH) – Why?

Other Support is **required for key personnel**

- as part of a **Just-in-Time** request
- in every **yearly progress report** if support has changed in the previous year for that person (changes in active support only are needed)

Other Support **includes all financial resources directly supporting the individual's research** – all grants, contracts, & OSU awards. Training awards, prizes, and gifts should not be included.

NIH uses the Other Support to determine if there is any overlapping support. **NIH will not pay for costs or projects already covered by other funding.**

- **Budgetary overlap:** budgetary items (e.g., equipment, salary) are requested but are already provided by another source.
- **Commitment overlap:** the individual's effort exceeds 100 percent, whether or not salary support is requested in the application.
- **Scientific overlap:** occurs when substantially similar research (in whole or in part) is proposed in more than one application, regardless of the funding source.
 - Potential scientific overlap is addressed by the SRG in an Administrative Note in the Summary Statement.

Resolution of Overlap occurs at the time of award in conjunction with the principal investigator, The OSU Research Foundation, and NIH.

Please see Karla Gengler-Nowak or Elaine Wakely in the DHLRI Grants Office (110 DHLRI) with any questions about this tip.

New Awards

PI: Gunjan Agarwal
Co-PI: Terry Elton
Title: Myocardial matrix remodeling by DDRs
Sponsor: NHLBI, Award No. 1 R01 HL081442
Amount: \$138,936
Start date: 9/30/05 End date: 8/31/06

PI: Curt Daniels
Title: A randomized, double-blind, placebo-controlled, multicenter study to assess the efficacy, safety, and tolerability of bosentan in patients with mildly symptomatic pulmonary arterial hypertension (EARLY)
Sponsor: Actelion Clinical Operations
Start date: 10/11/05 End date: 2/1/08

PI: Phil Diaz
Co-PIs: Thomas Clanton, Mark Wewers, Mark King, Haifeng Wu, Shili Lin
Title: Alveolar macrophage proteomics in HIV-induced emphysema
Sponsor: NHLBI, Award No. 1 R01 HL083478
Amount: \$2,055,625
Start date: 9/29/05 End date: 6/30/10

PI: Zhenguo Liu
Title: Asymptomatic AF and stroke evaluation in pacemaker patients and the AF reduction atrial pacing trial (ASSERT)
Sponsor: St. Jude Medical
Start date: 9/21/05 End date: 9/21/08

PI: Jay Zweier
Co-PIs: Periannan Kuppusamy, Alex Samouilov
Title: Proton electron double resonance imaging (PEDRI) of free radicals
Sponsor: NIBIB, Award No1 R01 EB0004900
Amount: \$3,514,663
Start date: 9/30/05 End date: 7/31/09

For more information on this newsletter, contact the editor, Chris Brakenbury, at 247-7155 or chris.brakenbury@osumc.edu. The newsletter is also available online at <http://heartlung.osu.edu>. To unsubscribe, please contact Chris via e-mail.