
2008 OSUMC Research Day - Now Accepting Donations

The Ohio State Medical Center Research Day Organizing Committee has invited the Davis Hart and Lung Research Institute to contribute financial support to this year's 7th Annual OSUMC Research Day on Thursday, April 10, 2008.

The OSUMC Research Day is a major event at the OSU Medical Center that provides a forum in which undergraduate students, graduate students, M.D./Ph.D. students, post doctoral trainees, medical students, and residents/clinical fellows can disseminate their research while fostering associations between individuals in different areas of biomedical science. Participation next year will be the highest yet.

In addition to poster presentations, the OSUMC Research Day boasts presentations by internationally renowned speakers from diverse areas of biomedical science. This year's Keynote speaker will be Peter J. Tontonoz, M.D., Ph.D., professor of Pathology and Laboratory Medicine at the Howard Hughes Medical Institute, UCLA.

Departments wishing to support this year's event will be recognized on the "Donor" page of the abstract booklet for their generous contribution. Checks for donations can be made payable to the Ohio State University (memo: FY'08 R-Day) and sent to:

Darlene Johns
Business Manager
School of Biomedical Science
College of Medicine
1190 Graves Hall, 333 W. 10th Avenue
Columbus, OH 43220

Contributions can also be made by sending a journal entry to chartfield:
25060-011000-64458--1629 (program#).

Staff Recruited to Ohio State Critical Care Program

Taken From September Issue of Central Ohio Health magazine

Drs. Beth Besecker, Douglas Haden, Jennifer McCallister and Jerome Stasek have joined Ohio State University Medical Center's Division of Pulmonary, Allergy, Critical Care and Sleep Medicine. This item and accompanied photos resulted from a news release distributed by OSU Medical Center Media Relations, available on the Web at:

<http://medicalcenter.osu.edu/mediaroom/press/article.cfm?ID=3359>



Kudos

Charles I. Jones III (from the Alevriadou lab, 3rd year OSU Medical student and a recipient of the Roessler Fellowship) gave an oral presentation at the Biomedical Engineering Society (BMES) Annual Meeting.

Dr. Kuppusamy Awarded “Doctor Honoris Causa”

Congratulations to Dr. Kuppusamy who recently was awarded an honorary doctorate, a “Doctor Honoris Causa” by the University of Pecs in Hungary. The award will be presented at a ceremony taking place on Thursday November 6, 2008. This is a wonderful and well deserved honor, recognizing his accomplishments and his longstanding collaboration with the University.

2007 DHLRI Distinguished Award Winners

The following awards were presented at the 2007 DHLRI Distinguished Award Reception on December 10, 2007.

Distinguished Clinical Fellow/Resident Award: Amit Doshi, MD

Dr. Doshi has been an exemplary clinical fellow, as he has maintained a zealous enthusiasm for learning new skills and applying this knowledge to translational research. Throughout his last 4 years in Dr. Binkley’s lab, Dr. Doshi has been involved in multiple projects that have resulted in three publications in high-impact, peer-reviewed journals and another three abstracts at national meetings. This track record is most impressive for a Fellow who has also maintained and excelled in his clinical service to patients

Distinguished Post-Doc Award: Shani Goldberg-Shilo, PhD

Dr. Goldberg-Shilo joined Dr. Sen’s lab one year ago and was assigned to a project dealing with the significance of microRNA in wound healing. In less than a year, she not only initiated a new field i.e. miRNA and angiogenesis but also developed a new technique for extracting miRNA which is now a standard technique in the lab. Shani is a strong candidate for the Distinguished Post-Doc Award because she clearly demonstrates a strong commitment to providing the skills and resources needed to succeed in the advancement of science.

Distinguished Research Staff: Muthulakshmi (Lakshmi) Kuppusamy

Lakshmi joined Pari’s group about 2 ½ years ago, working for the first 6 months as a volunteer. She has been instrumental in standardizing and establishing several lab cell culture protocols, and has also mastered the technique of internalizing the nanoparticulate probes into cells. Lakshmi is the best representation of an outstanding member to our organization and would like to show her this by giving her the Distinguished Research Staff Award.

Distinguished Mentor: Terry Elton, PhD

Dr. Elton is in the topmost percentile of professional research scientists. Besides being an outstanding investigator, Dr. Elton is a great collaborator and is genuinely concerned about the success of the research projects. Despite having a well-established lab and several multiple responsibilities, he has always created time to meet with and mentor others. Dr. Elton has been patient and encouraging while at the same time providing the type of positive constructive criticism needed to push a junior member of the lab forward.



Department of Physiology & Cell Biology- New Class

The Department of Physiology and Cell Biology will be offering a new class, 911.27 Advanced Cardiac Physiology. This course is available for 3 credits hours and is open to graduate students (call number 22004-8). The class will meet 1 day each week (Monday, 9 AM) during winter. The format is a 1 hr journal club, followed by 2 hrs of lecture (10 and 11 AM). Topics will include the following: EC coupling, Ion Channels, SR Calcium release, SR Calcium uptake, Myofilaments, Frequency-dependent Inotropy, β -stimulation. Lectures will be given by Dr. G. Billman, Dr. C. Carnes, Dr. J. Davis, Dr. S. Gyorke, Dr. P. Janssen, Dr. M. Periasamy, and Dr. M. Ziolo

For more info contact course director Mark Ziolo, PhD, Hamilton Hall 019, 688-7905
Ziolo.1@osu.edu



New Employees

Please join us in welcoming these new employees to the DHLRI. Contact
Colette.Tornik@osumc.edu *to announce a new employee in the next issue.*

- Dr. Junghyun Choi- Research Assistant, PI: Dr. Mani Vannan
- Craig Hemann- Senior Research Associate, PI: Dr. Jay Zweier
- Dr. Li Lin- Visiting Scholar, PI: Dr. Yong Xia
- Min Luo- Visiting Scholar, PI: Dr. Zhenguo Liu
- Dr. Georgeta Mihai- Research Scientist, PI: Dr. Sanjay Rajagopalan, Dr. Lon Simonetti
- Sean Sliman- Research Assistant, PI: Dr. Narasimham Parinandi
- V.K. Kaushik Vedam- Research Assistant, PI: Dr. Govindasamy Ilangovan
- Jason Weaver- Systems Specialist, DHLRI Administration
- Kara Batte, Research Assistant, PI: Dr. Clay Marsh
- Adam Hinzey, Research Assistant, PI: Dr. Ulysses Magalang
- Leonardo Porchia, Post Doctoral Researcher, PI: Dr. Andrea Doseff
- Robin Brookens, Clinical Research Coordinator, Janice Drake
- David Cosmar, Clinical Research Coordinator, Janice Drake
- Anita Kapil, Clinical Research Coordinator, Janice Drake
- Dr. Rami Kahwash, Assistant Professor of Clinical Internal Medicine
- Dr. Laxmi Mehta, Assistant Professor of Clinical Internal Medicine and Director of the Women's Cardiovascular Health Clinic
- Dr. Mani Vannan, Professor of Clinical Internal Medicine
- Madhavi Diwanji, Clinical Research Coordinator, PI: Dr. Ragavendra Baliga
- Dennis Powell, Research Nurse, CCRU

New Awards: Federal, State, and Foundations

PI: Phil Diaz
Co-PIs: Tom Clanton, Amy Ferketich, Mark King, Susan Koletar, Nancy Reynolds, Mark Wewers, Mary Ellen Wewers, Haifeng Wu
Sponsor: NHLBI, R01 HL0090313-01
Title: *Smoking cessation and the natural history of HIV-induced emphysema*
Start date: 09/28/2007 End date: 06/30/2008

PI: Michael Ezzie
Co-I: Clay Marsh
Sponsor: Flight Attendant Medical Research Institute
Title: *The role of thrombospondin-1 in emphysema*
Start date: 07/01/2007 End date: 06/30/2008

PI: Pat Nana-Sinkam
Sponsor: The CHEST Foundation
Title: *Circulating microRNA as a biomarker in lung cancer*
Start date: 07/01/2007 End date: 06/30/2009

PI: Min Pu
Sponsor: American Heart Association
Title: *Beta-blockade in chronic mitral regurgitation: Moving from laboratory experiment to clinical investigation*
Start date: 07/01/2006 End date: 06/30/2008

New Industry Support

PI: Phil Diaz
Sponsor: Battelle Memorial Institute
Title: *Chronic obstructive pulmonary disease study*
Start date: 09/21/2007 End date: 01/31/2008

PI: David Feldman
Sponsor: Thoratec
Title: *HARPS*
Start date: 08/29/2007 End date: 08/28/2008

PI: Ayesha Hasan
Sponsor: CardioMEMS
Title: *CHAMPION*
Start date: 10/22/2007 End date: 12/31/2011

PI: Ayesha Hasan
Sponsor: Cardiac Concepts
Title: *Phrenic nerve study*
Start date: 11/20/2007 End date: 01/31/2009

PI: Charles Love

Sponsor: Pacesetter (St. Jude Medical)
Title: *UNITY*
Start date: 09/24/2007 End date: 12/31/2008

PI: Clay Marsh
Co-I: Melissa Hunter
Sponsor: Battelle
Title: *Analysis of circulating microvesicles and their contents in patients with chronic obstructive pulmonary disease (COPD) and idiopathic pulmonary fibrosis (IPF)*
Start date: 11/01/2007 End date: 09/30/2008

PI: John Mastronarde
Sponsor: Novartis Pharmaceuticals Corp.
Title: *QAB149B Study 2335S Site 690*
Start date: 08/30/2007 End date: 12/31/2008

PI: Chandan Sen
Sponsor: Intercytex, Inc.
Title: *TOPICAL II*
Start date: 10/01/2007 End date: 10/31/2008

PI: Raul Weiss
Sponsor: Medtronic
Title: *TRENDS registry*
Start date: 09/14/2007 End date: 12/31/2007



Recent Publications

Berdiev, B.K., E. Cormet-Boyaka, A. Tousson, Y.J. Qadri, H. M.J. Oosterveld-Hut, J.S. Hong P.A. Gonzales, C.M. Fuller, E.J. Sorscher, G.L. Lukacs, and D.J. Benos. Molecular Proximity of CFTR and ENaC Assessed by Fluorescence Resonance Energy Transfer. *J. Biol. Chem.* (In press).

Bupha-Intr T, Holmes JW, Janssen PML. Induction of hypertrophy in vitro by mechanical loading in adult rabbit myocardium. *Am J. Physiol. Heart Circ. Physiol.*, (in press), 2007.

Carnes CC, Janssen PML, Ruehr ML, Nakayama H, Nakayama T, Haase H, Bauer JA, Chung MK, Fearon IM, Gillinov MA, Hamlin RL, Von Wagoner DR. Atrial Glutathione Content, Calcium Currents and contractility. *J. Biol. Chem.* 2007;282:28063-28073.

Galbraith, V.K., T.B. Cardon, Z. Han, S. Varadharaj, C.I. Jones III and B.R. Alevriadou, "Endothelial cell superoxide production and intracellular signaling during postischemic reperfusion", presented at the BMES Annual Meeting, September 26-29, 2007 (Los Angeles, CA).

Guterl KA, Haggart CR, Janssen PML, Holmes JW. Isometric contraction induces rapid myocyte remodeling in cultured rat right ventricular papillary muscles. *Am J. Physiol. Heart Circ. Physiol.*, (in press), 2007.

Han, Z., C.I. Jones III, S. Varadharaj, H.H. Szeto and B.R. Alevriadou, "Expression of heme oxygenase-1 in sheared vascular endothelial cells is regulated by mitochondrial H₂O₂ formation", presented at the Society for Free Radical Biology and Medicine (SFRBM) Annual Meeting, November 14-18, 2007 (Washington, DC).

Janssen PML, Periasamy P. Determinants of Frequency Dependent Contraction and Relaxation of Mammalian Myocardium. *J. Mol. Cell. Cardiol.* 2007;43:523-531.

Keweloh B, Janssen PML, Siegel U, Datz N, Zeitz O, Hermann HP. Influence of pyruvate on economy of contraction in isolated rabbit myocardium. *Eur. J. Heart Fail.* 2007;9:754-761.

Monasky MM, Varian KD, Davis JP, Janssen PML. Dissociation of Force Decline from Calcium Decline by Preload in Isolated Rabbit Myocardium. *Eur J Physiol.*, (in press), 2007.

Monasky MM, Varian KD, Janssen PML. Gender comparison of contractile performance and beta-adrenergic response in isolated rat cardiac trabeculae. *J. Comp. Physiol. Biochem.*,(in press), 2007.

Rennolds, J., C. Tower, L. Musgrove, L. Fan, K. Maloney, J.P. Clancy, K.L. Kirk, E. Sztul, and E. Cormet-Boyaka. CFTR trafficking is mediated by the COPI coat in epithelial cells. *J. Biol. Chem.* (In press).

Rodino-Klapac LR, Janssen PML, Montgomery CL, Coley BD, Chicoine LG, Clark KR, Mendell JR. A translational approach for limb vascular delivery of the micro-dystrophin gene without high volume or high pressure treatment. *J. Translational Medicine.* 2007;5:45.

To submit news items, for more information, or to unsubscribe,
email Colette Tornik: Colette.Tornik@osumc.edu. Thanks! Editors.
The newsletter is available online at <http://heartlung.osu.edu>.

