



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

July 2006

Kudos

Prof. Claire Remacle from the University of Liège (Belgium) will spend her sabbatical leave in **Patrice Hamel's** laboratory this summer. Both laboratories are engaged in a scientific collaboration to investigate the biogenesis of mitochondrial complex I in *Chlamydomonas reinhardtii*, a genetically-tractable model system. The goal is to discover novel complex I assembly factors via insertional mutagenesis and reconstruct human-disease associated mutations via biolistic transformation of the mitochondria. Dr. Claire Remacle is supported through a sabbatical grant from the University of Liège.

Stacey Myers has been appointed Director of Development for the OSU Heart Center effective June 1. Stacey has done a terrific job as Associate Director leading the program and will continue her great work with the lead volunteers and donors in the Heart program to achieve their goal as part of the Power to Change Lives campaign.

A study led by **Dr. James O'Brien** was recently featured in the science section of the May 9 New York Times. The BMI/Hospital Mortality study suggests that some people who are very overweight may be more likely to survive a critical illness than people who are in better shape. "Lower body mass indexes (BMIs) were associated with higher odds of death, whereas overweight and obese BMIs were associated with lower odds."

The Klassen Research Day on June 9 celebrated the appointment of Dr. **Sampath Parthasarathy** as the Klassen Chair in Cardiothoracic Research. Dr. **Louis Ignarro**, 1998 Nobel Prize winner, gave the Klassen Lecture. Several Institute members participated in the one day symposium.

Alon Peltz, an undergrad student in **Narasimham Parinandi's** lab, has been awarded the 2006 Mayers Summer Research Internship to conduct/continue his ongoing research this summer. Alon submitted a proposal on the "Role of Calcium in Phospholipase D regulation and catalysis in vascular endothelium" and succeeded in the competition."

Patrice Scipio, a first year medical student, has received the Samuel J. Roessler Memorial Medical Scholarship to work in the laboratory of **Hamdy Hassanain** this summer. Patrice's project will be to assess the role of C-Reactive Protein in atherosclerosis. The Samuel J. Roessler Memorial Medical Scholarship was established by Anna J. Roessler in memory of her son. These awards are available to medical students of the College of Medicine for medical research under the guidance of its faculty.

The DHLRI-based journal *Antioxidants & Redox Signaling* has achieved a new impact factor of 4.232 (up from 3.763). **Chandan Sen**, deputy director for DHLRI, is the editor for ARS. ARS received its first impact factor in 2003, it was 3.027. The next year the factor increased to 3.763.

Oliver Voss, a graduate student in **Andrea Doseff**'s lab, received the American Heart Association predoctoral fellowship. During this two-year fellowship, Oliver will investigate the role of heat shock proteins in cell death and survival.

Souba Appointed New Dean of Medicine

Wiley W. "Chip" Souba Jr., MD, current chair of Surgery at Penn State's College of Medicine and surgeon-in-chief at the Milton S. Hershey Medical Center, has been appointed by Fred Sanfilippo, MD, PhD, senior vice president and executive dean for health sciences and CEO of the Medical Center, to the college dean post. The appointment, effective Aug. 14, is subject to approval by the University's Board of Trustees.

Souba also is director of the Penn State Hershey Center for Leadership Development and holder of the John A. and Marian T. Waldhausen Professorship in surgery at Penn State. "Chip brings to OSU Medical Center the complex combination of skills and vision for the organization's potential that will be essential as we continue to pursue complete alignment of the College of Medicine, the OSU Health System and the OSU physician faculty practice plan," said Sanfilippo.

OSU President Karen Holbrook shares the enthusiasm of Sanfilippo. "I am delighted to welcome Dr. Souba to Ohio State. His distinguished record in research, education and leadership make him ideally suited to lead our College of Medicine at this critical time."

Ostrowski to Chair Molecular and Cellular Biochemistry

Michael Ostrowski, PhD has been appointed chair of the Department of Molecular and Cellular Biochemistry in the School of Biomedical Science. His appointment was approved on June 2 by The OSU Board of Trustees.

During his 10 years on the Ohio State faculty, Mike has performed outstanding work for the University as both a scientist and educator and he has mastered the intricacies of medical research at both the administrative and laboratory levels. He is currently a professor in the human cancer genetics program and in the department of molecular genetics in the College of Biological Sciences. He also co-directs the molecular biology and human cancer genetics program in the OSU Comprehensive Cancer Center, and is an investigator for DHLRI.

A world authority on gene signaling pathways, Mike is currently principal investigator on research grants totaling more than \$1.5 million, including a National Cancer Institute-funded program project grant focused on breast cancer. He has received several awards for scholarly achievement, including his 2004 election as fellow in the American Association for the Advancement of Science.

New Members

Membership for the following individual was recently approved. Please join us in welcoming him to the institute!

Matthew Kennedy, PhD; Member (Pediatrics)



Recent Publications

Aquilante CL, Terra SG, Schofield RS, Pauly DF, Hatton PS, Binkley PF, Johnson JA. "Sustain Restoration of Autonomic Balance with Long - But Not Short - Acting Metoprolol in Patients with Heart Failure." *Journal of Cardiac Failure*, 12(3):171-176, 2006.

Bhatt N, Baran CP, Allen J, Magro C, Marsh CB. Promising pharmacologic innovations in treating pulmonary fibrosis. *Curr Opin Pharmacol*. 2006 Jun;6(3):284-92. Epub 2006 May 2.

Billman GE, Kukielka M, Kelley R, M Mustafa-Bayoumi and Altschuld RA. Endurance exercise training attenuates cardiac beta₂-adrenoceptor responsiveness and prevents ventricular fibrillation in animals susceptible to sudden death. *Am J Physiol (Heart Circ Physiol)* 290: H2590-H2599, 2006.

Billman GE. Heart rate response to the onset of exercise: evidence for enhanced cardiac sympathetic activity in animals susceptible to ventricular fibrillation. *Am J Physiol Heart Circ Physiol* 291: H429-H435, 2006.

Crouser ED, Julian MW, Huff JE, Mandich DV, Green-Church KB. A proteomic analysis of liver mitochondria during acute endotoxemia. *Intensive Care Med*. 2006 Jun 2; [Epub ahead of print]

Freemantle N, Tharmanathan P, Calvert MJ, Abraham WT, Ghosh J, Cleland JG. Cardiac resynchronisation for patients with heart failure due to left ventricular systolic dysfunction - a systematic review and meta-analysis. *Eur J Heart Fail*. 2006 Jun;8(4):433-40. Epub 2006 Feb 28.

Kin, N. and Sanders, V.M. (2006). CD86 stimulation on a B cell activates the PI3K/Akt and PLCgamma2/PKCalpha/beta signaling pathways. *J. Immunol.*, 176:6727-35.

Kin, N. and Sanders, V.M. (2006). It takes nerve to tell T and B cells what to do. *J. Leukoc. Biol.*, 79:1093-1104.

Magro CM, Waldman WJ, Knight DA, Allen JN, Nadasdy T, Frambach GE, Ross P, Marsh CB. Idiopathic pulmonary fibrosis related to endothelial injury and antiendothelial cell antibodies. *Hum Immunol*. 2006 Apr-May;67(4-5):284-97. Epub 2006 Apr 5.

Martin MM, Buckenberger JA, Knoell DL, Strauch AR, Elton TS. "TGF-β1 regulation of human AT1 receptor mRNA splice variants harboring exon 2." *Molecular and Cellular Endocrinology* 249:21-31, 2006.

Moldovan L, Mythreyre K, Goldschmidt-Clermont PJ, Satterwhite L. Reactive oxygen species in vascular endothelial cell motility. Roles of NAD(P)H oxidase and Rac1. *Cardiovascular Research*, 2006, May 9 (Epub ahead of print).

Packer M, Abraham WT, Mehra MR, Yancy CW, Lawless CE, Mitchell JE, Smart FW, Bijou R, O'Connor CM, Massie BM, Pina IL, Greenberg BH, Young JB, Fishbein DP, Hauptman PJ, Bourge RC, Strobeck JE, Murali S, Schocken D, Teerlink JR, Levy WC, Trupp RJ, Silver MA; Prospective Evaluation and Identification of Cardiac Decompensation by ICG Test (PREDICT) Study Investigators and Coordinators. Utility of impedance cardiography for the identification

of short-term risk of clinical decompensation in stable patients with chronic heart failure. *J Am Coll Cardiol.* 2006 Jun 6;47(11):2245-52. Epub 2006 May 15.

Sukhanov S, Higashi Y, Shai S-Y, Itabe H, Ono K, Parthasarathy S, Delafontaine P. Novel Effect of Oxidized Low-Density Lipoprotein. Cellular ATP Depletion via Downregulation of Glyceraldehyde-3-Phosphate Dehydrogenase. *Circulation Research*, June 15, 2006, 10.1161.

Valdivia-Arenas M, Sood N. A 77-year-old farmer with respiratory failure and thrombocytopenia. *Chest.* 2006 May;129(5):1378-81.

OSUMC Campus Campaign Sets New Record



Medical Center staff participation in the OSU Campus Campaign took a giant leap forward this year, moving from fewer than 20 percent of faculty and staff participating last year to more than 45 percent this year with more than 4,400 of you giving to University programs. University Hospital East led all Medical Center business units with nearly 70 percent of employees participating.

Congratulations to Jerry Mansfield and his committee of volunteers who coordinated the campaign. Faculty and staff gifts to Campus Campaign this year are counted toward the Medical Center's \$500 million Power to Change Lives Campaign.

Operation Feed Exceeds Food, Fundraising Goals



Thank you to all OSUMC faculty, staff and students who either donated food or money during the recent Operation Feed food drive. The Medical Center exceeded its goals by raising a total of 5,725 food items and \$5,241.06. This means our organization donated a total of 16,207 meals to the Mid-Ohio Food Bank. A special thanks also goes to the key workers from each area that donated their time to the fundraiser.

OSUMC Goes Tobacco-Free July 5

OSUMC will become a tobacco-free organization on Wednesday, July 5. As the Medical Center prepares for this change, many communication efforts have been implemented to make sure faculty and staff understand this change and what it will mean to patients and visitors who come to the Medical Center's hospitals and other off-site locations, including OSU's Primary Care Network office locations. Please visit OneSource for information and resources.



Gravel Part of Polo Lot Closed through September

The gravel portion of the Polo Lot will remain closed through September for paving and other improvements including new drainage, lighting, curbs, improved pedestrian access, and two blue-light emergency phones.

For those affected by the closure, the Med Center Express shuttle will provide transportation to and from the Medical Center. Staff can park in the Buckeye Lot and use the above shuttle to get to Rhodes Hall. Shuttles will run from 5:30 a.m.-midnight, Monday through Friday. Staff have the option to downgrade to a "CX" parking permit during this closure and park in the Buckeye Lot for the rest of the 2005-2006 permit year (Current 05-06 permits expire August 31, 2006). More details are available at www.tp.ohio-state.edu/alerts/pololotclosure.shtml.

Holiday Closure

The university will be closed to observe Independence Day on **Tuesday, July 4.**



July Programs and Events

July 14: Research in Progress; Bryan McElwain, Flow Cytometry Core Lab.*

July 21: Research in Progress; Leni Moldovan, Microarray/Genetics Core Lab.*

July 28: Research in Progress; Matthew A. Kennedy, Molecular and Human Genetics.*

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

New Awards: Federal, State, Foundations

PI: Oliver Voss
Co-I: Andrea Doseff
Title: Regulation of human monocyte apoptosis by caspase-3 and small heat shock protein 27
Sponsor: American Heart Association, Ohio Valley Affiliate
Amount: \$42,000
Start date: 7/1/06 End date: 6/30/07

New Industry Contracts

PI: Garrie Haas
Title: Ribose study
Sponsor: Bioenergy, Inc.
Start date: 4/25/06 End date: 5/14/07

PI: Zhenguo Liu
Title: The RELY study
Sponsor: Boehringer Ingelheim Pharmaceuticals, Inc.
Start date: 6/12/06 End date: 4/5/09

New Intramural Support

Co-PI: AJ Cardounel
Co-PI: Louis Chicoine
Title: Role of ADMA in Pulmonary Hypertension of the Newborn
Sponsor: Children's Hospital/OSU 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. The newsletter is also available online at <http://heartlung.osu.edu>. To unsubscribe, please contact Chris via e-mail.

