



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

October 2006

Kudos

Mahmood Khan's abstract has been accepted for presentation at the AHA 2006 Scientific Sessions. His abstract is titled "*Non-invasive Tracking of Cells and Monitoring of In Situ pO₂ during Engraftment of Skeletal Myoblasts in Infarct Mouse Heart.*"

An American Heart Association student scholar award in the amount of \$2,000 was given to Early Admissions Pathway student **Navya Parsa** for an internship in Gunjan Agarwal's lab.

The Ruth L. Kirschstein National Research Service Award NIH Predoctoral Fellowship was awarded to **Tennille Presley**, a graduate student in Govindasamy Ilangovan's lab. The award will cover about 60% of her tuition and fees, health insurance, and a stipend.

Congratulations to **Cheryl Kulmala Sroufe** in the DHLRI Grants Office, who was recently recognized for 28 years of university service.

The TELR Professional Development Grant subcommittee announced that **Whitney Tapp** has been awarded a professional development grant. Whitney's proposal has been selected for support in the amount of \$976. TELR's professional development grants promote new technology skills for teaching and technology support staff.

New Members

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

Estelle Cormet-Boyaka, PhD; Associate Investigator (Pulmonary, Allergy, Critical Care and Sleep Medicine)

Mark A. Gerhardt, MD, PhD; Associate Investigator (Anesthesiology)

Jeanette Webster Marketon, PhD; Associate Investigator (Pulmonary, Allergy, Critical Care and Sleep Medicine)

Susan D. Moffatt-Bruce, MD, PhD; Associate Investigator (Cardiothoracic Surgery)

Tatiana Oberyszyn, PhD; Member (Pathology)

Alistair B. M. Phillips, MD; Member (Cardiothoracic Surgery)

Genome-Wide Map of Nucleosome Positioning Sequences Revealed for Yeast

Nature Genetics published "Nucleosome positions predicted through comparative genomics," the collaborative work of OSU's Ilya Ioshikhes, PhD, and Penn State University scientists headed by

B. Franklin Pugh in its Sept. 10 online issue. Print publication is to follow.

The article uses comparative genomics to report a genome-wide map of nucleosome positioning sequences located in the vicinity of all *Saccharomyces cerevisiae* genes. The researchers found that the underlying DNA sequence provides a very good predictor of nucleosome locations that previously have been experimentally mapped to a small fraction of the genome.

Ioshikhes is an Assistant Professor in the Department of Biomedical Informatics and Bioinformatics Core Director at DHLRI. He explains that chronologically the article follows the Aug. 17, 2006, issue of *Nature* titled, "Chromatin Code Decoded: Nucleosome positions controlled by DNA sequence." However, this research is independent from the *Nature* study and more profound in its analysis. For more information, go to:

<http://www.nature.com/ng/journal/vaop/ncurrent/full/ng1878.html>.



Recent Publications

DeBoy, C.A., Xin, J., Byram, S.C., Serpe, C.J., *Sanders, V.M., and *Jones, K.J (* = equivalent contribution). 2006. Immune-mediated neuroprotection of axotomized mouse facial motoneurons is dependent on the IL-4/STAT6 signaling pathway in CD4+ T cells. *Exp. Neurology.*, 201:212-224.

Ioshikhes IP, Albert I, Zanton SJ, Pugh BF. Nucleosome positions predicted through comparative genomics. *Nat Genet.* 2006 Sep 10; [Epub ahead of print]

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. Leuk. Biol., J. Leukoc. Biol.* 79:1093-1104

Mihai C, Iscru D, Druhan L, Elton T, Agarwal G. Discoidin Domain Receptor 2 Inhibits Fibrillogenesis of Collagen type 1", *Journal of Molecular Biology* 2006 Sep 1;361(5):864-76.

Pongratz,G., McAlees, JW, Conrad, DH, Erbe, RS, Haas, KM, and Sanders. VM. 2006. The level of IgE produced by a B cell is regulated by norepinephrine in a p38 MAPK- and CD23-dependent manner. *J.Immunol.*, 177:2926-2938.

Vargo, M.A., Voss, O.H., Poustka, F., Cardounel, A.J., Grotewold, E., and Doseff, A.I. (2006). Apigenin-induced-apoptosis is mediated by the activation of PKCδ and caspases in leukemia cells. *Biochem. Pharmacol.* 72: 681-692.

5th Annual Conference on Medical and Surgical Therapies

"High Touch, High Tech: Heart Failure for the 21st Century," the 5th Annual Conference on Medical and Surgical Therapies (**formerly Heart Failure at the Shoe**), will be held Friday, November 17, 2006 from 8 a.m. - 5 p.m. in 170 DHLRI. This year's conference will feature a lecture by international heart failure expert Philip Poole-Wilson, MD titled "*Pharmacological therapies for chronic heart failure.*" For more information, contact CME at 293-3576.

Give the Gift of Life

Thanks to all staff who made the Sept. 1 blood drive a success! The next opportunity to donate will be **Monday, Oct. 2** in the Ross Heart Hospital lobby from 7:30 a.m. – 5:30 p.m. Call 293-LIFE or register online at www.givelife.org (sponsor code “buckeyes”) to make an appointment. Walk-ins are welcome but may experience delays. Remember, donors must wait eight weeks between donations.



October Programs and Events

October 4: Discovery Series: David J. Pinsky, MD; Professor of Internal Medicine, Chief of Cardiology, University of Michigan Health System.

October 6: Research in Progress; Daniel Iscru; AFM Core Lab.*

October 13: Research in Progress; Mahmood Khan, PhD; DHLRI.*

October 20: Research in Progress; Periannan Kuppusamy, PhD; EPR Core Lab.*

October 25: Discovery Series: Lothar A. Blatter, MD; Professor, Cellular & Molecular Physiology, Loyola University Health System.

October 27: Research in Progress; Beth Lee, PhD; Physiology & Cell Biology.*

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

New Awards: Federal, State, Foundations

PI: Naeem Ali
Co-PI: Stan Lemeshow
Sponsor: NCRR, Award No. 1 K23 RR019544-01
Title: TSP-1: A mediator of sepsis-induced lung injury
Amount: \$659,680
Start date: 9/1/06 End date: 7/31/11

PI: Mark W. Hall
Mentor: Mark D. Wewers
Sponsor: NHLBI, K08
Title: Monocyte Pyrin Expression in Human Sepsis
Amount: \$396,000
Start date: 7/2006 End date: 6/2009

PI: Periannan Kuppusamy
Sponsor: US-Israel Binational Science Foundation
Title: Biophysical and medical applications of ESR microscopy
Amount: \$18,194
Start date: 10/1/06 End date: 9/30/07

PI: Patrick Nana-Sinkam
Co-PIs: Clay Marsh
Sponsor: NHLBI, Award No. 7 K08 HL077717-03 (transfer from U of Colo)
Title: Regulation of prostacyclin in pulmonary hypertension
Amount: \$394,470
Start date: 9/1/06 End date: 7/31/09

PI: Navya Parsa
Co-I: Gunjan Agarwal
Sponsor: American Heart Association
Title: Recognition of fibrillar collagen by DDRs
Amount: \$2,000
Start date: 7/7/06 End date: 10/15/06

PI: Sampath Parthasarathy
Sponsor: NHLBI, Award # 5 R01 HL069038-07 (transfer from LSU)
Title: Oxidation hypothesis-paradoxes and pitfalls
Amount: \$701,656 (OSU)
Start date: 3/1/06 (OSU) End date: 7/31/07

PI: Tennille Presley
Mentor: Govindasamy Ilangovan
Sponsor: NIGMS, Award No. 1 F31 GM078772-01
Title: EPR oximetry to study diabetic endothelial dysfunction
Amount: \$99,816
Start date: 9/1/06 End date: 8/31/09

PI: Jay Zweier (Program PI: Lewis Becker, Johns Hopkins University)
Co-I: Xiaoping Liu, Govindasamy Ilangovan, Yong Xia, Alex Samouilov
Sponsor: NHLBI, Award No. 2P01HL065608
Title: Inflammation and repair in cardiac ischemia-reperfusion
Amount: \$448,500/yr 1
Start date: 6/1/06 End date: 3/31/11

New Industry Contracts

PI: Carl Leier
Sponsor: Encysive, LP
Title: FDHF01
Start date: 7/20/06 End date: 7/19/07

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.

