



Biochemistry and Molecular Biology



NOTES

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Congratulations!

Bill Bosron was just awarded a 2-year NIH R21 grant for his project "CPT-11 Activation by Carboxylesterases in Colon Cancer".

Howard Edenberg has been invited to serve on the National Advisory Council on Alcohol Abuse and Alcoholism of the National Institutes of Health effective immediately and ending October 31, 2005. Congratulations, Howard!



Congratulations to Biochem faculty newly appointed to the Graduate Faculty:

Full status:
Mark Deeg
Jim Walsh

Associate status:
Veena Antony
Matt Grow
C. Max Schmidt
Debbie Thurmond

Important Dates

- 3/11 Spring Break begins
- 3/18 Classes resume
- 3/22 ACS Res. Scholar
- 3/22 NIH Committed Continuations
- 4/22 March of Dimes Basic Research Pre-App.
- 4/23 NIH Committed Continuations
- 4/30 Finals begin
- 5/12 Commencement
- 6/3 NIH Research grants, Program project/center grants, committed continuations
- 6/7 NIH Interactive Research Project Grants
- 6/19 US Army Breast Cancer Research Program
- 6/20 NIH Competing Continuation, supplemental and revised grants
- 8/21 Classes Begin
- 9/2 LABOR DAY
- 9/15 NIH New Research, FIRST and Career Development Awards, All Program Project and Center Grants

New Face in Biochemistry



Bhargavi Vemuri is a new post-doc in the lab of Anna DePaoli-Roach.

New Appointment in Biochemistry



Ms. Jing Zhou, a former grad student in Peter Roach's lab, has accepted a position as a Research Technician in the BBF. She'll be working on Protein Expression projects sponsored by INGEN.

March Seminars

Biochemistry Seminars Mondays 4 pm, MS 326

3/4 Dr. Richard L. Morimoto, Professor, Biochemistry, Molecular Biology and Cell Biology, Northwestern University, Chicago, IL “Chaperone networks and protein homeostasis: Sensing the stress of misfolded and aggregation-prone proteins”.

3/6 Dr. Mary Waltner-Law, Research Instructor, Department of Molecular Physiology and Biophysics, Vanderbilt University Medical Center, Nashville, TN. “Regulation of PEPCCK Gene Expression by Various Signaling Pathways”. **MS B26 4:00 pm**

3/11 Dr. Marc Mendonca, Assistant Professor and Director, Radiation and Cancer Biology, IUSM, Indianapolis, IN. “Apoptotic Misregulation and Radiation-induced Carcinogenesis”.

3/18 Dr. John W. Hawes, Associate Scientist/Associate Professor, part time, Biochemistry and Molecular Biology, Director, Biochemistry Biotechnology Facility, IUSM, Indianapolis, IN. “Proteomic Analysis of Bacterial Hydroxyacid Metabolism”.

3/19 Dr. Pamela L. Larsen, Associate Research Chemist, Department of Chemistry and

Biochemistry, University of California, Los Angeles, Los Angeles, CA. “DAF-2 insulin-like receptor pathway control of expression and physiology in long-lived *C. elegans*”.

3/25 4:00 p.m. “The Many Steady-State Functions of c-N-Ras”. **Dr. Alan Wolfman**, Associate Staff, Dept. of Cell Biology, Cleveland Clinic Foundation; Cleveland, OH. **MS 326.**

Biochemistry Student Seminars Wednesdays, 12 Noon, MS 311

3/6 Mandar Joshi
3/13 Trevor Starnes
3/20 Zhenlian Ke
3/27 Yahaira Naaldijk

Other Seminars of Interest

3/6 12:00 noon “Indiana Genome Initiative (INGEN)”. **Ora H. Pescovitz, M.D.**, Edwin Letzter Professor of Pediatrics, and Executive Associate Dean for Research Affairs, IUSM. **MS B26.**

3/6 4:00 p.m. “The Role of the AML1/CBFB Transcription Factor Complex in Normal Hematopoiesis and Leukemia”. **James Downing, M.D.**, Chairman, Pathology Department, St. Jude Children’s Research Hospital, Memphis, TN. **Cancer Research Institute [R4] Auditorium 101.**

3/12 4:00 p.m. “First Meal Effect”. **Dr. Ravi Shankar**, Dept. of Medicine, Division of Endocrinology, IUSM, Indianapolis, IN. **MS 122A (Daly Center).**

3/14 4:00 p.m. “Multiple Signaling Functions of the *Neisseria Gonorrhoeae* Type IV Pilus”. **Magdalene Y.H. So, Ph.D.**, Professor and chair, Dept. of Molecular Microbiology and Immunology, Oregon Health Sciences University; Portland, OR. **MS 326.**

3/15 12:00 noon. “HIV-1 protease inhibitors and endothelial function”. **Sudha Shankar, M.D.** **MS 311 A/B.**

3/21 4:00 p.m. “Microbial Priming of Human Dendritic Cells for CD40L Induced IL-12p70 Secretion is *Leishmania* Species Dependent”. **Mary Ann McDowell, Ph.D.**, Dept. of Biological Sciences, University of Notre Dame; South Bend, IN. **MS 326.**

3/26 4:00 p.m. “Atypical Signals Regulating GLUT4 Translocation”. **Jeffrey Elmendorf, Ph.D.**, Assistant Professor, Cellular and Integrative Physiology and Biochemistry and Molecular Biology, IUSM, Indianapolis, IN **MS 221A (Daly Center).**

Recent Publications

Fadok VA, de Cathelineau A, **Daleke DL**, Henson PM, Bratton DL. (2001) Loss of phospholipid asymmetry and surface exposure of phosphatidylserine is required for phagocytosis of apoptotic cells by macrophages and fibroblasts. *J. Biol. Chem.* **276**:1071-1077.

Hoffmann PR, deCathelineau AM, Ogden CA, Leverrier Y, Bratton DL, **Daleke DL**, Ridley AJ, Fadok VA, Henson PM. (2001) Phosphatidylserine (PS) induces PS receptor-mediated macropinocytosis and promotes clearance of apoptotic cells. *J. Cell Biol.* **155**:649-659. (this one made the cover of the November 12 issue).

Hanashiro I and **Roach PJ**. (2002) Mutations of Muscle Glycogen Synthase That Disable Activation by Glucose 6-Phosphate. *Arch. Biochem. Biophys.* **397**(2):286-292.

Seo, Y.R., **Fishel M**, **Kelley MR** and Smith ML. (2002) Role for p53 in base excision DNA repair: In vivo evidence. *Oncogene* **21**: 731-737. (Fishel is Melissa Limp-Foster, former biochem student).

Peters SJ, **Harris RA**, **Wu P**, Pehleman TL, Heigenhauser GJF, Spriet LL. (2001) Human skeletal muscle PDH kinase activity and isoform expression during a 3-day high-fat/low-carbohydrate diet. *Am J Physiol. Endocrinol. Metab.* **281**: E1151-E1158.

Puglisi F, Barbone F, Tell G, Aprile G, Pertoldi B, Raiti C, **Kelley MR**, Damante G, Sobrero A, Beltrami CA, Di Loreto C. (2002) Prognostic role of Ape/Ref-1 subcellular expression in stage I-III breast carcinomas. *Oncol Rep.* **9**:11-17.

Huang B, **Wu P**, **Bowker-Kinley MM**, and **Harris RA** (2002) Regulation of Pyruvate Dehydrogenase Kinase Expression by Peroxisome Proliferator-Activated Receptor- α Ligands, Glucocorticoids, and Insulin. *Diabetes* **51**: 276-283.

Gasa R, **Clark C**, **Yang R**, **DePaoli-Roach AA**, **Newgard CB**. (2002) Reversal of diet-induced glucose intolerance by hepatic expression of a variant glycogen-targeting subunit of protein phosphatase-1. *J. Biol. Chem.* **277**: 1524-1530.

Zhou FC, Duguid JR, **Edenberg HJ**, **McClintick J**, Young P, Nelson P. (2001) DNA microarray analysis of differential gene expression of 6-year-old rat neural striatal progenitor cells during early differentiation. *Restor. Neurol. Neurosci.* **18**,95-104.

Kwon HS, Lee DK, Lee JJ, **Edenberg HJ**, Ahn YH, Hur MW. (2001) Posttranscriptional regulation of human ADH5/FDH and Myf6 gene expression by upstream AUG codons. *Arch. Biochem. Biophys.* **386**:163-71.

Schuckit MA, **Edenberg HJ**, Kalmign J, Flury, L, Smith TL, Reich T, Bierut L, Goate A, Foroud T. (2001) A genome-wide search for genes that relate to a low level of response to alcohol. *Alcohol Clin. Exp. Res.* **25**:323-9.

New Graduate Student Health Insurance Representative

Sharon Huter is the new Mega Life Health Insurance Representative and is located in UN 526. She can be reached at 278-1159, insuranc@iupui.edu. Her hours are 8-4 Tuesdays and Thursdays and 8-1 Fridays.

