Biochemistry and Molecular Biology NOTES

Volume 14, No.11 February 2002

Congratulations!

Congratulations to **Denise and Kirk Staschke**, whose son Cameron Alan was born January 9, 2002. He weighed 7 lb, 7oz and was 20 inches long. Everyone is doing well.

The IUPUI Graduate Office has awarded a Travel Fellowship to graduate student **Boli Huang.**

Goff Tunnicliff, Evansville, has been awarded an NIH grant titled "Mechanisms of Signal Transduction of GHB Action".

Ron Wek received his competing renewal on his NIH R01 titled "Metabolic Stress Responses and eIF2 Kinase GCN2".

Recent Publications

Metabolic Regulation in Mammals, **David M. Gibson and Robert A. Harris.** Taylor & Francis, London and New York, **2002**. The intent of the book is to provide an introductory perspective of metabolism and an overview of the principal control mechanisms that regulate metabolic conversions in cells and tissues of mammals. A review of the major features of the living system (chapter 1) is followed by a consideration of cellular multienzume pathways (chapter 2) and an introduction to the panoply of control mechanisms in the context of cellular and organismal homeostasis (chapters 3 and 4). In the last four chapters the regulation of metabolic pathways in individual tissues and the interplay among tissues are presented: red blood cells (chapter 5), muscle (chapter 6), adipose tissue (chapter 7), and liver (chapter 8).

Bowen RF, Raikwar NS, Olson LK, **Deeg MA**. Glucose and insulin regulate GPI-specific phospholipase D expression in islet beta cells. *Metabolism*, **50**: 1489-1492, 2001.

Deeg MA, Bierman EL, Cheung MC. GPI-specific phospholipase D associates with an apolipoprotein AI- and AIV-containing complex in human plasma. *J. Lipid Research*, **42**: 442-452, 2001.

Deeg MA, Bowen RF, Williams MD, Olson LK, Kirk EA, LeBoeuf RC. Increased expression of GPI-specific phospholipase D in mouse models of Type 1 diabetes. *Am. J. Physiology*, **281**: E147-154, 2001.

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February Seminars

Biochemistry Seminars
Mondays 4 pm, MS 326

2/4 Dr. James P. Reilly, Professor, Physical and Analytical Chemistry, IUB; *Probing Cells With High Resolution and Sensitivity Using Mass Spectrometry*.

2/11 Dr. Ruben Vidal, Assistant Professor, Department of Pathology and Laboratory Medicine, IUSM; *Amyloid and Chromosome 13 Related Dementias.*

2/18 Dr. Shirish Shenolikar, Professor and Vice-Chair, Pharmacology and Cancer Biology, Duke University Medical Center, Durham, NC; *Combinatorial Control of Protein Phosphatase-1- Implications for Human Disease.*

2/25 Dr. Christopher P. Hill, Professor of Biochemistry, Department of Biochemistry, University of Utah, Salt Lake City, UT; *Structural Basis for the Activation of 20S Proteasomes.*

Biochemistry Student Seminars
Wednesdays, 12 Noon, MS 311

Feb. 6 Sirisha Asuri
Feb.13 Tia Harvey
Feb. 20 Candy Heyen
Feb. 27 Josh Heyen

Other Seminars of Interest

2/5 4:00 p.m. *Mechanism of Transcriptional Repression by the t(8;21),t(12;21), and inv (16) Fusion Proteins in acute Leukemia.* **Scott W. Hiebert,** Professor of Biochemistry, Vanderbilt University. Cancer **Research Building, R4 101**.

2/6 12:00 noon *Ethical and Legal Issues in International Genomics: A UNESCO Perspective.* IU Center for Bioethics Seminar. **Prof. Ryuichi Ida,** Chairperson, International Bioethics Committee, UNESCO; and Professor, Kyoto University Graduate School of Law; Kyoto, Japan. **MS B26.**

2/6 4:00 p.m. *Alterations of Cornified Cell Envelope Proteins by HPV: A Possible Mechanism for Virus Transmission*. **Darron Brown, M.D.,** Depts. of Medicine and Microbiology /Immunology, IUSM. **MS 326.**

2/14 4:00 p.m. *Affairs of the Heart: New Approaches in the Study of Infective Endocarditis and Bacterial Pathogenesis.* **Bradley Allen, M.D., Ph.D.,** Dept. of Medicine, Div. of Infectious Diseases, IUSM. **MS 326.**

2/20 9:00 a.m. *Tutorial: Genetic network analysis - from the bench to computers and back.* **Zoltan Szallasi, MD,** Senior Research Scientist, Children's Hospital Informatics Program and Assistant Professor of Health Science Technology, Harvard Medical School. **IU Cancer Research Center Institute Auditorium.**

2.20 11:00 a.m.*What is beyond fishing? Defining questions in cancer research that are particularly suited for massively parallel biological data acquisition.* **Zoltan Szallasi, MD, Ruth Lilly Learning Center Auditorium, Riley Outpatient Center.**

2/21 4:00 p.m. Pathogenesis of BM Failure in Fanconi Anemia. **Laura S. Haneline, M.D.,** Dept. of Pediatrics, IUSM. **MS 326.**

2/27 4:00 p.m. *Proteomics: Applications and Accessibility at IU Medical Center.* **Mu Wang,** Scientific Directory of Proeomics Core Facility, IUSM. **Cancer Research Building, R4 101**.

2/28 4:00 p.m. *Signatures of the Immune System, or Chips…You Can't Do Just One…* **Arthur L. Shaffer, Ph.D.,** Staff Scientist, National Cancer Institute, National Institutes of Health; Bethesda, MD. **MS 326.**

Recent Publications

Wang Z, Wilson WA, Fujino MA, **Roach PJ.** The yeast cyclins Pc16p and Pc17p are involved in the control of glycogen storage by the cyclin-dependent protein kinase Pho85p. *FEBS Lett.*, 2001 Oct. 12; **506**(3):277-80.

Ramchandani VA, **Bosron WF**, Li TK. Research advances in ethanol metabolism. *Pathol Biol* (Paris), 2001 Nov; **49**(9):4-5.

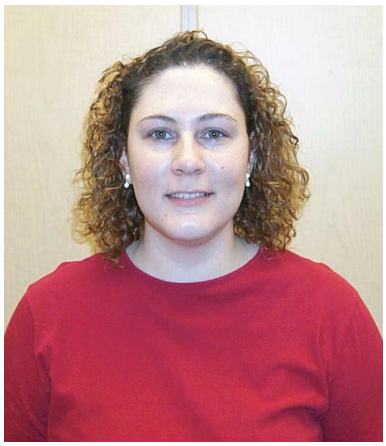
Lee, JH, Voo KS, **Skalnik DG.** Identification and characterizaton of the DNA binding domain of CpG-binding protein. *J Biol Chem.* 2001 Nov 30; **276**(48):44669-76.

Vig E, Green M, **Liu Y**, Yu KY, Kwon HJ, Tian J, **Goebl MG, Harrington, MA.** SIMPL is a tumor necrosis factor-specific regulator of nuclear factor-kappaB activity. *J Biol Chem.* 2001 Mar 16; **275**(11):7859-66.

Carlone DL, **Skalnik DG**. CpG binding protein is crucial for early embryonic development. *Mol Cell Biol.* 2001 Nov; **21**:7601-6.

Hawkins SM, Kohwi-Shiegematsu T**, Skalnik DG.** The matrix attachment region-binding protein SATB1 interacts with multiple elements within the gp91 phox promoter and is down-regulated during myeloid differentation. *J Biol Chem.* 2001 Nov 30; **276**(48):44472-80.

New Faces in Biochemistry



Martha Foley is a visiting grad student in the lab of Bill Bosron. Martha is from Stevens Institute of Technology in New Jersey. Her mentor there is **Carol Stone**, a former IUSM Department of Biochemistry investigator.

Tatiana Valachovicova is a lab assistant in RonWek's lab.

Hurteau JA, Allison MB, Brutkiewicz SA, **Goebl MG,** Heilman DK, Bigsby RM, **Harrington MA**. Expression and subcellular localization of the cyclin-dependent kinase inhibitor p27(Kip1) in epithelial ovarian cancer. *Gynecol Oncol.*, 2001 Nov; **83**(2):292-8.

Ms. Guihong Qi, a new hourly research technician in the lab of Roger Roeske.

Important Dates

2/7	**March of Dimes Fdn.**
2/21	**NIH** Committed Continuations, Rev. grants
2/21	**American Cancer Society** Postdoctoral fellowships
3/22	ACS Research Scholar
3/22	NIH Committted Continuations
4/22	March of Dimes Basic Research Pre-App.
4/23	NIH Committed Continuations
5/23	NIH Research grants, Program project/center grants, committed continuations