



December Seminars



Biochemistry Seminars Mondays 4 pm, MS 326

12/3 Candidate for Chair of the Department of Pharmacology/Toxicology, **Dr. Lynn R. Willis**, Professor and Associate Chairman, Department of Pharmacology and Toxicology, Indiana University School of Medicine, Indianapolis, IN. "The Effect of High-Energy Shock Waves on Renal Structure and Function" **2:00 p.m. MS B26**

12/3 Dr. Fred Regnier, Professor, Department of Chemistry, Purdue University, West Lafayette, IN. "Comparative Proteomics and the Search for Disease Markers" **4:00 p.m. MS 326**

12/10 Candidate for Chair of the Department of Pharmacology/Toxicology, **Dr. James W. Putney**, Chief, Calcium Regulation Section, Laboratory of Signal Transduction, National Institute of Environmental Health Sciences (NIEHS), National Institutes of Health (NIH), Research Triangle Park, NC. "Calcium Entry Mechanisms in Non-excitable Cells" **2:00 p.m. MS B26**

12/10 Dr. John D. Scott, Associate Investigator, HHMI, Senior Scientist, Volum Institute, Portland, OR. "The Molecular Architecture of

Kinase Phosphatase Signaling Complexes" **4:00 p.m. B26**

12/17 Candidate for Chair of the Department of Pharmacology/Toxicology, **Dr. Michael R. Vasko**, Paul Stark Professor of Pharmacology, Department of Pharmacology and Toxicology, Indiana University School of Medicine, Indianapolis, IN. "Prostaglandin Receptors on Sensory Neurons: The Portal to Sensitization?" **3:00 p.m. MS B26**

Biochemistry Student Seminars Wednesdays, 12 Noon, MS 311

12/5 Mikael Rinne

12/12 Beth Ann Spurlin

Other Seminars of Interest

12/5 4:00 p.m. "Common Pluripotential Stem Cells in Multiple Tissues." **Edward Srour, Ph.D.**, Dept. of Medicine, IUSM. Cancer Research Institute [R4] Auditorium 101.

12/6 2:00 p.m. Faculty candidate for the Center for Structural Biology and the Biochemistry Department., **Dr. Millie Georgiadis**, Dept. of Chemistry, Rutgers University; Piscataway, NJ. "The Crystal Structure of a Novel DNA-Binding Domain from Ndt80, a Transcriptional Activator Required for Meiosis in Yeast." MS 326.

12/6 4:00 p.m. "Molecular Pathogenesis of JC Virus-Induced CNS Disorders." **Kamel Khalili, Ph.D.**, Professor and Director, College of Science and Technology Temple University, Center for Neurovirology and Cancer Biology, Temple University; Philadelphia, PA. MS 326.

12/12 4:00 p.m. "Towards the Genetic Determinants of Metastasis in Osteosarcoma." **Chand Khanna, D.V.M., Ph.D.**, National Cancer Institute, Pediatric Oncology Branch, National Institutes of Health; Bethesda, MD. Cancer Research Institute [R4] Auditorium 101.

12/13 4:00 p.m. "Peptide Loading of MHC Class II-Molecules. **Lisa K. Denzin, Ph.D.**, Memorial Sloan-Kettering Cancer Center; New York, NY. VanNuys Medical Science Building.



*A Joyous and
Peaceful Season*

Melissa Green (*Ph.D. in Biochemistry and Molecular Biology, IUSM, 1999*) of Kansas State University worked with the Girls Researching Our World (GROW) Workshop. Fifty sixth- and seventh-grade girls from across Kansas participated in this workshop, drawn by their interests in science and engineering. The diverse group of girls participated in 21 different activities, ranging from molecular biology to the physics of heat and light.

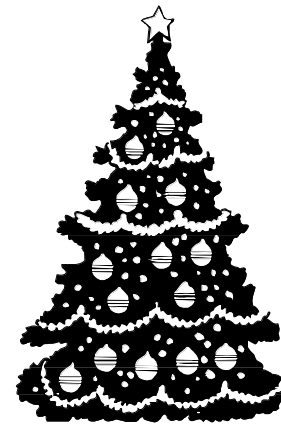


Melissa, along with two undergraduate students and a research assistant, designed and executed “DNA Detectives.” The participants acted as detectives who analyzed DNA evidence that was collected from a crime scene and from several suspects, in order to determine “Who did it?” During the 4-hour activity, the girls were able to learn data analysis techniques, in addition to gaining hands-on experience with current DNA applications.

“Personally, I had a great time working with the girls. My participation in the GROW workshop was important for me

as I continue to remain involved in science education at the K-12 level. In order to increase the number of students who pursue careers in science and math, I believe that we, as research scientists and educators, must spark interests in these fields very early in the education process. Programs such as GROW provide participants with successful science experiences that will hopefully foster their interests in scientific careers. Additionally, as a GROW instructor, the girls were able to see a woman in a role that they might aspire to fill.”

(Reproduced from the *American Society for Cell Biology* newsletter, Vol. 24, No 11)



Biochem Briefs

Matt Grow, MS 4063, has a new phone in his lab. It is: 274-1588.

Ed Harper has moved to a new office location, MS 1003. His phone remains the same: 274-8732.

Important Dates

- 12/11 Finals begin**
- 12/14 Christmas Party**
- 12/14 NIH Committed Continu-
ations**
- 12/25 CHRISTMAS**
- 1/1/02 HAPPY NEW YEAR!**
- 1/4 American Heart Assn,
National (Scientist Devel-
opment, Estab. Investiga-
tor grants)**
- 1/5 American Heart Assn,
National (Grant-in-Aid)**
- 1/7 Classes Begin**
- 1/14 American Heart Assn,
Midwest Affiliate
(Grant-in-Aid, Fellow-
ships)**
- 1/15 JDF International Pre
application for 2/21
deadline**
- 1/24 American Diabetes
Assn (Research, Career
Development, Junior
Faculty, Clinical Research
awards)**
- 1/24 JDF International**
- 1/24 NIH Research Grants,
Research Career Awards,
Program Project Center
Grants, Committed
Continuations**
- 2/1 NIH**
- 2/15 March of Dimes Fdn.**
- 2/1 American Diabetes
Assn.**
- 3/1 American Cancer
Society**
- 3/1 NIH**

Recent Publications

Hamilton, J.A. and Benson, M.D. (2001) Transthyretin: a review from a structural perspective. *Cell. Mol. Life Sci.* **58**:1491-1521.

Aschenback, William G., **Suzuki, Y., Breeden, Kristine, Prats, Clara,** Hirshman, Michael F., Dufresne, Scott D., Sakamoto, Kei, **Vilardo, Pier Giuseppe, Stelle, Marcella, Kim, Jong-Hwa,** Jing, Shao-liang, Goodyear, Laurie J., and **DePaoli-Roach, Anna A.** (2001) The Muscle-specific Protein Phosphatase PP1G/RGL (GM) is essential for activation of glycogen synthase by exercise. *JBC* **276**(43): 39959-39967.

Lanner, Carita, Suzuki, Yoichi, Bi, Chen, Zhang, Hong, Cooper, Lori D., Bowker-Kinley, Melissa M.,

and **DePaoli-Roach, Anna A.** (2001) Gene structure and expression of the targeting subunit, RGL, of the muscle-specific glycogen-associated type 1 protein phosphatase, PP1G. *Arch. Biochem. Biophys.* **388**(1):135-145.

Suzuki, Yoichi, Lanner, Carita, Kim, Jong-Hwa, Vilardo, Pier Giuseppe, Zhang, Hong, Yang, Jie, Cooper, Lori D., Steele, Marcella, Kennedy, Andrew, Bock, Cheryl B., Scrimgeour, Angus, Lawrence, John C. Jr., and **DePaoli-Roach, Anna A.** (2001) Insulin control of glycogen metabolism in knockout mice lacking the muscle-specific protein phosphatase PP1G/RGL. *Mol. Cell. Biol.* **21**(8):2683-2694.



Biochemistry Christmas Party!

Please join us on Friday, December 14 at 12:00 noon in the first floor atrium of the Medical Science Building annex.



The Department will provide a wonderful catered buffet lunch of grilled chicken breast, vegetable pasta salad, Italian garden salad, glazed baby carrots, herbed red potatoes, yeast rolls, iced tea, soft drinks, and coffee.

DESSERTS! WE NEED DESSERTS! Please feel free to bring any dessert you'd like to share. We can never have too many!



New Faces in Biochemistry



Judy White, Assistant Scientist/Assistant Professor, part-time in the Biotechnology Research Training Program



Melanie Thibodeaux, Research Technician in Dr. Grow's lab



Huijun Tian, Postdoctoral Fellow in Dr. Edenberg's lab



James Vitale, Research Technician in Dr. Grow's lab



Jingpeng Li, Visiting Professor with Roger Roeske

Recent Grant Awards

Dan Spandau is the PI on a National Institute of Environmental Health Science award for "Ultraviolet B Irradiation of Human Keratinocytes".

Congratulations!

Mikael Rinne has been awarded a breast cancer predoctoral fellowship training grant from the Dept. of Defense titled "DNA base excision repair (BER) and cancer gene therapy: Use of the human n-methylpurine DNA glycosylase (MPG) to sensitize breast cancer cells to low dose chemotherapy".

