



Biochemistry and Molecular Biology

NOTES



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Congratulations!

Wayne A. Wilson, who received his Ph.D. in Biochemistry from the University of Dundee, Scotland in 1996 has been appointed Assistant Scientist and Assistant Professor, Part-Time, in Peter Roach's lab. He recently completed a postdoctoral fellowship in that lab and his primary research interest is in kinases responsible for phosphorylation of glycogen synthase.

Rose S. Fife has been appointed the first holder of the Barbara F. Kampen Chair in Women's Health in recognition of her role as director of women's health in the School of Medicine.

The IUPUI Fellowship Committee has awarded **Trevor Starnes** (of Dr. Hromas' lab) a Travel Fellowship for conference expenses up to \$600.00.



Harikrishna Nakshatri, Ph.D. has received a three year Department of Defense grant for his proposal entitled "NF-kappaB Mediated Repression of GADD1253/CHOP: A Role in Breast Cancer Initiation".

In this proposal, Dr. Nakshatri will explore the nexus between NF-kB and GADD153 in breast cancer initiation. He will also determine whether NF-kB plays an active role in survival and cancerous growth of normal breast cells that are damaged by environmental toxicants. Furthermore, Dr. Nakshatri will investigate whether NF-kB alters the normal pathway of growth, division and death of breast cells.

Several laboratories including Dr. Nakshatri's are currently measuring the effect of inhibitors of NF-kB on the response of breast cancer to chemotherapy. This proposed study is the first step in developing similar drugs than can prevent breast cancer initiation.

Dr. Nazir Khatri is spending his sabbatical working in Bill Bosron's lab from now until the end of August.

New Faces in Biochemistry

Min Choi, lab assistant in Anna DePaoli-Roach's lab

Kristie Breeden, part-time research technician in Anna DePaoli-Roach's lab

Julia Azriel, part-time research technician in Alan Mahrenholz's lab

Marcella Steele is now a full-time Research Technician in Anna De Paoli-Roach's lab (she was formerly an hourly employee in that lab)

Keonna Perry is a work-study student in Peter Roach's lab

Zhidong Zhang, visiting Research Associate in Roger Roeske's lab

Shiling Ren, part-time research technician working with Pengfei Wu

February Seminars

Biochemistry Seminars Mondays 4 pm, MS 326

2/5 **Maureen A. Harrington, Ph.D.**, Dept. of Biochemistry/ Molecular Biology, IUSM. "Regulation of NF-KB Dependent Gene Expression."

2/12 **Taihung Duong, Ph.D.**, Center for Medical Education, Terre Haute, IN. "Inflammatory Proteins in Alzheimer's Disease."

2/19 **Dr. Nancy Ratner**, Dept. of Cell Biology, University of Cincinnati College of Medicine; Cincinnati, OH. "Cell and Molecular Analysis of Peripheral Nerve Tumor Formation of Neurofibromatosis Type 1."

2/26 **Dr. Morris White**, Joslin Diabetes Center, and Associate Investigator, Howard Hughes Medical Institute, Harvard Medical School; Boston, MA. "Role of IRS Proteins in Growth and Metabolism."

Biochemistry Student Seminars Wednesdays, 12 Noon, MSA506

2/7 **Yong Luo**
2/14 **Xiaodong Xie**
2/21 **Nan Zhang**
2/28 **David Chang**



Postdoctoral Seminars, Alternate Thursdays, 12 noon; MS A506/A518

2/1 **Diana Carlone**
CpG Binding Protein is Crucial for Early Embryonic Development

2/15 **Jong-Hwa Kim**
Epinephrine control of glycogen metabolism in protein phosphatase 1G/RGL and inhibitor-1 knockout mice.

Other Seminars of Interest

2/1 2:00 p.m. Computational approaches to understanding genome regulation. **Dr. David States**, Associate Professor of Genetics, Member, Center for Computational Biology, Washington University, St. Louis, MO. Emerson Hall, Room 304.

2/1 4:00 p.m. CSF-1 Receptor Signaling: Mechanisms for Growth and Survival. **Angel Wai-Mun Lee, M.D., Ph.D.**, Dept. of Biochemistry/Molecular Biophysics, Washington University School of Medicine; St. Louis, MO. Medical Science 326.

2/2 12:00 noon Advanced Glycation End Products: The Dark Side of Glucose. **Keshore R. Bidasee, Ph.D.**, Dept. of Pharmacology/Toxicology, IUSM. Medical Science A506.

2/2 4:00 p.m. Dimming the Blood Tide; Angiogenesis and Breast Cancer. **Kathy D. Miller, M.D.**, Dept. of Medicine, IUSM. Cancer Research Institute [R4] Auditorium 101.

2/7 12:00 noon Role of the Omega-3 Fatty Acid DHA in Membrane Structure and Function. **William H. Stillwell, Ph.D.**, Dept. of Biology, IUPUI. Medical Science 326.

2/7 4:00 p.m. Nuclear Receptors in Organ Proliferation and Human Disease. **Holly Ingraham, Ph.D.**, Dept. of Physiology, University of California; San Diego, CA. Cancer Research Institute [R4] Auditorium 101.



2/8 4:00 p.m. Tweaking the Ribosome with tmRNA. **Kelly P. Williams, Ph.D.**, Dept. of Biology, Indiana University; Bloomington, IN. Medical Science 326.

2/14 12:00 noon Ion Channel Physiology and the Control of Cell Growth and Development. **Stanley Rane**, Dept. of Biological Science, Purdue University; West Lafayette, IN. Medical Science 326.

2/21 12:00 noon Hormonal and Neuronal Control of Glycogen Metabolism: Insights from Protein Phosphatase IG/RGL Overexpressing and Knockout Mice. **Anna De Paoli-Roach, Ph.D.**, Dept. of Biochemistry/ Molecular Biology, IUSM. Medical Science 326.

2/21 4:00 p.m. Might TNF be a Growth Factor for Mammary Tumors as well as the Normal Mammary Gland? Therapeutic Implications. **Margot M. Ip., Ph.D.**, Grace Cancer Drug Center, Roswell Park Cancer Institute; Buffalo, NY. Cancer Research Institute [R4] Auditorium 101.

2/28 4:00 p.m. Microvascular Responses to Acute and Chronic Inflammation. Selkurt Lectureship. **D. Neil Granger, Ph.D.**, Boyd Professor and Head, Dept. of Physiology/ Biophysics, LSU Medical Center; Shreveport, LA. Medical Science 326.

2/29 4:00 p.m. Role of SHP-1 Tyrosine Phosphatase in Coordinating Lymphocyte Activation and Development. **Katherine Siminovitch**, Depts. of Medicine, Immunology, Medical Genetics and Microbiology, University of Toronto; and Director, Genomics Division, Mount Sinai Hospital; New York, NY. Cancer Research Institute [R4] Auditorium 101.

2001 Advanced Molecular Biology Methods

The "Advanced Molecular Biology Methods" course/ workshop, G910, will be offered this year during Summer Session II from July 23 to August 10. This is a three credit course all day Monday through Friday. The course is open to students, postdoctoral fellows, staff and faculty members with some basic experience in molecular biology who wish to expand their knowledge to more sophisticated and complex techniques, as outlined below. The course consists of lectures, hands-on laboratory and informal discussions. Interested parties should contact Dr. Anna A. DePaoli-Roach by April 15.

Schedule of G910 for 2001

WEEK I, July 23-27; a. DNA arrays; b. Cloning by protein-protein interaction using the two-hybrid system; c. Cloning of DNA binding proteins by South-Western procedures; d. Cloning of interacting proteins by Far-Western; e. Proteomics and analysis of interaction by Biacore/Biosensor.

WEEK II, July 30-August 3; a. Gene expression in mammalian cells; b. Protein production in *E. coli*; c. Generation of transgenic and knockout mice; d. Analyses by real time PCR.

WEEK III, August 6-10; a. Analysis of transcription start site; b. Gel retardation analysis; c. DNaseI footprinting; d. In situ hybridization.

Important dates

2/1 NIH new research
3/12 Spring break begins
4/13 CAMPUS HOLIDAY
4/28 MEMORIAL DAY
4/30 Finals begin
5/13 Commencement
11/22 THANKSGIVING
12/25 CHRISTMAS

Dean's Office Deadlines - February

2/5 NIH IRPG proposals
2/5 March of Dimes
2/19 Leukemia & Lymphoma Society
2/19 Cancer Research Foundation of America
2/19 AHA continuations and renewals
2/19 NIH competing renewals

Dean's Office Deadlines - March

3/21 American Cancer Society
3/21 NIH Committed Continuations

February Birthdays

2/5 **Jean Hamilton**
2/14 **Marcus Breese**
2/19 **Mark Goebel**

