



Biochemistry and Molecular Biology

NOTES



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September 2001

Congratulations!

Mikael Rinne married Tiffany Widmer on June 16th in Portland, Oregon. Tiffany is from Portland and they met when they both attended Brigham Young University in Provo, Utah. Tiffany is a school teacher. Mikael has family in Finland so after the wedding, the couple honeymooned in Finland and in Italy.

Congratulations to **Ariel Castro** and **Roxana Pincheira** on the birth of their daughter, **Ariana**, on August 1st. Ariana weighed in at 7 lb 8 oz. All three are doing well.

Lili Guo gave an invited talk and chaired a session at the 4th Symposium on Frontiers in Protein Chemistry and Biotechnology in Chengde, China, August 17 - 20. The title of her talk was, "Ion Selectivity of Synthetic Channel-forming Peptides".

Ariel Castro of Lawrence Quilliam's lab received an internal grant from the Center of Excellence for Women's Health for 1 year. The grant title is "Role of Rap 1 and Estrogen in Lymphangiomyomatosis".



Mark Goebel really knows how to give: he just received a pin in recognition of donating 12 gallons of blood over the last 10 years!

Anna DePaoli-Roach received a Competing Renewal R01 DK36569-14 on her grant titled "Structure and Regulation of Type 1 Protein Phosphatases". The grant starts 8/1/01 and will end 6/30/05.

NIEHS/NIH. Wilson, G., PI;
M.R. Kelley PI of subcontract;
8/01/01 - 7/31/05;
"Repair of Beta cell toxins:
Mechanisms of action".
Also, Dr. Glenn Wilson is from
the University of South Alabama.

New Patents Issued:
Methods and Compositions
for the Use of Apurinic/
Apyrimidinic Endonucleases
(2001) **Mark R. Kelley**.
Patent Number: 6,190,661.
(Therapeutic uses)

DNA sequences encoding
fusions of DNA repair fusion
proteins, and use thereof
(2001) **Mark R. Kelley** and
David A. Williams. Patent
Number: 6,252,048.

September Seminars

Biochemistry Seminars Mondays 4 pm, MS 326

9/10 Tom Hurley. Professor, Department of Biochemistry and Molecular Biology, IUSM; "The Structure of Glycogenin: Dimers, Decamers and Dextrose"

9/17 Mark Winey Biology, University of Colorado, Boulder CO; "MPS1 Kinase in Centrosome Duplication"

9/24 Joseph B. Duffy, Asst. Prof., Dept. of Biology, Indiana University; "Inhibitors of EGFR signaling: insights from Drosophila"

Biochemistry Student Seminars Wednesdays, 12 Noon, MS 311

9/5 Brian Gibbons

9/12 Yonghao Hou

9/19 Yu Li

9/26 Jingyuan Liu

Other Seminars of Interest

Thurs. 9/27

4:00 p.m. Intracellular Tollgates for Adeno-Associated Virus Gene Delivery. **John F. Engelhardt, Ph.D.,** Dept. of Anatomy/Cell Biology, University of Iowa; Iowa City, IA. Medical Science 326

Important Dates

- 9/1 NIH Committed contin
- 9/1 JDF International
- 9/15 21st Century Technology and Research Fund
- 9/15 Cancer Research Foundation of America
- 9/30 March of Dimes Birth Defects Foundation
- 10/1 NIH new research, committed continuations
- 10/1 Leukemia and Lymphoma Society
- 10/1 American Cancer Society Postdoctoral Fellowships
- 10/15 American Cancer Society Research Scholar Grants
- 11/1 NIH Competing contin.
- 11/10 National Kidney Foundn.
- 11/22 THANKSGIVING
- 12/11 Finals begin
- 12/12 CHRISTMAS
- 1/1/02 HAPPY NEW YEAR!
- 1/7 Classes Begin
- 1/15 American Heart Assn.
- 1/22 American Heart -Midwest
- 2/1 American Diabetes Assn.
- 3/1 American Cancer Society

Dean's Office

Deadlines - Sept

- 9/6 Leukemia and Lymphoma Society
- 9/6 Cancer Res. Found.
- 9/20 March of Dimes Birth Defects Foundation
- 9/17 NIH Research grants, committed contin.
- 9/17 American Lung Assn.
- 9/17 American Cancer Society

Dean's Office Deadlines - Oct

- 10/24 American Lung Assn
- 10/24 NIH Committed Contin, Revised grants

In Memoriam

We extend our deepest sympathies to the family of **Carole Sue Stewart**, who passed away on Aug. 24. Prior to her retirement in 1998, she was a co-associate coordinator of the MSMS program in the IU School of Medicine and was a facilitator in the problem-based learning course for freshman medical students, Concepts of Health and Disease. She received her Ph.D. from our department in 1985 and held a research position in Cardiology and later in the Alcohol Research Group of the Department of Medicine. She will be greatly missed.

September Birthdays

- 9/2 Jingyuan Liu
- 9/5 Mik Rinne
- 9/10 Dave Crabb
- 9/20 Yong Luo
- 9/30 Kun Ma

New Faces in Biochemistry

New Faculty Member in Genomics



On September 1, 2001 **Matt Grow** becomes the newest faculty member to join Biochemistry and Molecular Biology as an Assistant Professor. He is associated with the Center for Medical Genomics headed by Howard Edenberg. His research focuses on all aspects of spotted microarray technology, and he plans to research new and emerging technologies for high-throughput functional genomics. Matt just completed a post-doc fellowship at Harvard Medical school and worked in the Cardiovascular Research Center at Mass General Hospital. Matt's office is located in MS 4061 and he can be reached at 274-3399 or at mgrow@iupui.edu. Welcome, Matt!



Sherie Bornino is a new Principal Accounts Clerk in the Biochem office



David Norman: new post-doc in Maureen Harrington's lab

Emily Decker is a new hourly lab assistant in Suk-Hee Lee's laboratory



Brittany Radez is a new lab assistant in Debbie Thurmond's lab

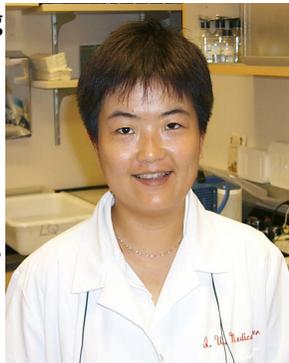


Shantala Gelli is a new lab assistant in Ron Wek's lab



Rhonda Thomas: new Research Technician in Debbie Thurmond's lab

Xiaoyang Jing is a new lab assistant in Lawrence Quilliam's lab



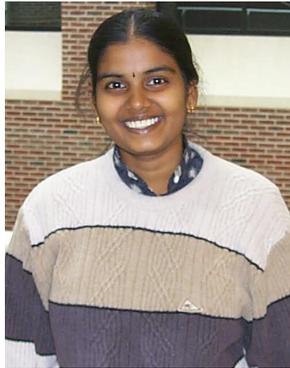
Erin Williams is a new Principal Accounts Clerk in the Biochem Office



New Graduate Students



**Asoka
Asundl**



**Sirisha
Asuri**



**Tia
Harvey**



**Candy
Heyen**



**Joshua
Heyen**



**Zhenlian
Ke**



**Yahaira
Naaldijk**



**Lee
Ott**



**David
Raches**



**Lisa
VanLeuven**

Recent Publications

Bethany K. Zolman, Melanie Monroe-Augustus, Beth Thompson, **John W. Hawes**, Kristin A. Krukenberg, Seiichi P.T. Matsuda, and Bonnie Bartel (2002) chy1, an Arabidopsis Mutant with Impaired β -Oxidation, is Defective in a Peroxisomal β -Hydroxyisobutyryl-coA Hydrolase. *J. Biol. Chem.*, 276, Issue 33, 31037-31046.

Hegde, V; **Kelley, MR**; Xu, Y; Mian, IS; Deutsch, WA (2001) Conversion of the bifunctional 8-oxoguanine/ β -delta apurinic/aprimidinic DNA repair activities of Drosophila ribosomal protein S3 into the human S3 monofunctional β -elimination catalyst through a single amino acid change. *Journal of Biological Chemistry* 276, 27591-27596.

Dubois, T., Kerai, P., Zemlickova, E., Howell, S., Jackson, T. R., Venkateswarlu, K., Cullen, P. J., Theibert, A. B., Larose, L., **Roach, P. J.**, and Aitken, A. (2001) Casein kinase I associates with members of the centaurin-a family of phosphatidylinositol-(3,4,5)-trisphosphate-binding proteins. *J. Biol. Chem.* 276, 18757-18764.

Zhai, L., Schroeder, J., Skurat, A. V., and Roach, P. J. (2001) Do rodents have a gene encoding glycogenin-2, the liver isoform of the self-glucosylating initiator of glycogen synthesis? *IUBMB Life* 51, 87-91

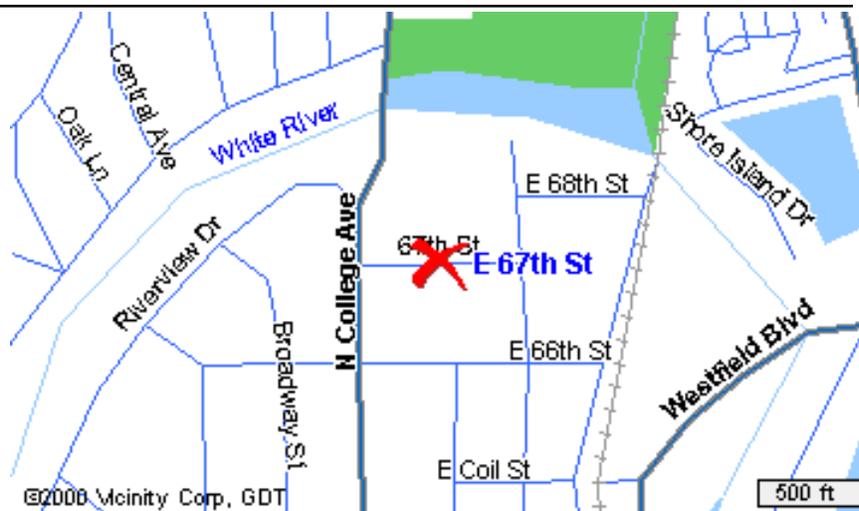
Raben, N., Danon, M., Lu, N., Shliselfeld, L., **Skurat, A. V., Roach, P. J.** . Lawrence, J. C. Jr., Shanske, S., S. DiMauro, S., Plotz, P. (2001) Surprises of genetic engineering: a possible model of polyglucosan body (Lafora) disease. *Neurology* 56, 1739-1745

Hui Zong, Koza Kaibuchi, and Lawrence A. Quilliam, (2001). The insert domain of Rho is required for activation of Rho kinase and cellular transformation. *Molecular and Cellular Biology* 21: 5287-5298.

Wang, Z., Wilson, W. A., Fujino, M. and Roach, P. J. (2001) Antagonistic controls of autophagy and glycogen accumulation by Snf1p, the yeast homolog of the amp-activated protein kinase, and the cyclin-dependent kinase Pho85p. *Mol. Cell. Biol.* 21, 5742-52

Wu, X., Hart, H., Frederick, D. L., Cheng, C., **Roach, P. J. and Tatchell, K.** (2001) Characterization of Gac1p, a regulatory subunit of protein phosphatase type 1 involved in glycogen accumulation in *Saccharomyces cerevisiae* *Mol. Genet. Genomics* 265, 622-35

The Biochem Dept. retreat will be held on October 6, 2001 at the Indianapolis Art Center in Broad Ripple. Contact chairperson Mark Goebel with ideas. Watch our web page and Biochem Notes next month for more maps and schedules.



Instructional Courses/Seminars for Research 2001-2002 Academic Year

The School of Medicine recommends these programs to assist faculty and fellows in developing and enhancing their research careers

September 12-14: RE-SEARCH COORDINATOR EDUCATION COURSE

A three day hands on course for coordinators or faculty/fellows who want to have a full understanding of the research resources and regulatory requirements for clinical research here at IU. Fee is \$300 and registration can be made through School of Nursing CME: jward@iupui.edu or Marta Sears at msears@iupui.edu

September 28: FACULTY CLINICAL RESEARCH TRAINING SEMINAR

A one day course designed for Faculty and fellows interested in clinical research. The goal is to demonstrate the resources available

and help the investigator understand the “nuts and bolts” of research. Fee is \$25 and reservations can be made through SOM Medical Education Office, AFTER August 1st.

October 6: ASSOCIATION CLINICAL RESEARCH PROFESSIONALS:

Circle City Chapter Meeting. Ritz Charles in Carmel. This is a National organization focused on clinical research. This meeting is an all day symposium for both industry and academics focusing on important and current issues affecting us all. Fee is estimated to be \$100 for the entire day. A reservation form can be emailed to you. Email the Liz Pertile at liz.pertile@roche.com.

October 8 and 9: GRANT WRITING WORKSHOP:

This is a 1-1/2 day course taught by a professional organization focusing on how to write a grant. The grant format will utilize the NIH PHS 398 form, and focus on how to develop a fundable idea, preparation before you write the grant, how to write for reviewers, tips and strategies for writing the specific aims, how much and what kind of preliminary data to have, how detailed and how to format the research design and methods section, budgets, and other pearls on how to get funded. The second day will focus on finding a funding source. The fee will be \$50, and registration will be through School of Medicine Continuing Education office AFTER September 1.
