



MOLECULAR BIOLOGY

NOTES



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February, 1999

David Daleke featured in *Diabetes Forecast*

There is a very interesting article about **David Daleke** and a very good presentation of his research in the January, 1999 issue of *Diabetes Forecast*, pages 59-61.

David is looking at how platelets work, how diabetes affects them, and their involvement in the increased incidence of heart attacks and strokes in diabetics. He has postulated that hyperglycemia induces oxidative damage to blood cell membranes, leading to an increased rate of atherosclerosis and all the known cardiovascular complications that go with it.



NEW FACES IN BIOCHEMISTRY

Welcome to:

Rob Beal, work-study student with Dave Timm,

Samantha Panga, Research tech in the BBF,

Claire Squires, lab assistant with Anna DePaoli-Roach, and

Myeong-Ae Yu, Post-doc in Suk-Hee Lee's laboratory.

CONGRATULATIONS!

Dongqing Huang won the **Peggy Gibson Award** for the best paper by a graduate student during the 1998 academic year.

Britta Jacobsen won the **Jack David Award** for the best presentation during the Student Seminar series during the academic year 1998.

Both awards featured a framed certificate and \$150.00. Good work!

Teerawatanasuk, N, DG Skalnik, and LG Carr (1999) CCAAT displacement protein (CDP/Cut) binds a negative regulatory element in the human tryptophan hydroxylase gene. *J. Neurochem.* 72:29-39.

Franchetti, P, L Cappellacci, GA Sheikha, **H.N. Jayaram**, V.V.Gurudutt, T Sint, BP Schneider, BM Goldstein, G Perra, S Poma, PL Colla, and M Grifantini (1998) Structure-activity studies of C-nucleoside analogs of tiazofurin and selenazofurin: Synthesis, structure, antitumor activity and interactions with IMP dehydrogenase of selenazofurin. *J. Med. Chem* 41:1702-1707.

New Baby

Congratulations to **Dongxia Wang** and **Hong Zhao** on the birth of their son, Eric Y. Wang. Eric was born at 2:08 pm at Methodist Hospital on Tuesday, January 12, 1999. Eric was 8 lb, 14 oz and 20 inches long.

Eric Y. Wang

RECENT PUBLICATIONS

Hunakova, L, J Duraj, D Romanova, L Novotny, J. Sedlak, **MR Kelley**, T Szekeres, **HN Jayaram**, and B Chorvath (1998) Staurosporine enhanced benzamide-riboside induces apoptosis in human multidrug-resistant promyelocytic leukemia cells (HL-60/VCR) *in vitro*. *Neoplasma* 45: 204-209.

Gharebcghi, K, W Zhen, M Fritzer-Szerkeres, T Szerkeres, and **HN Jayaram** (1999) Studies on the antitumor activity and biochemical actions of cyclopentenyl cytosine against human colon carcinoma (HT-29) *in vitro* and *in vivo*. *Life Sci* 64:103-112.

FEBRUARY SEMINARS

Biochemistry Faculty Seminars Mondays, 4:00 pm, MS B326 (unless otherwise indicated)

- 2/1 **Dr. Claire Walczak**, Assistant Professor, Medical Sciences Program, IUB; "A novel molecular motor required for mitotic spindle assembly and chromosome alignment"
- 2/8 **Dr. Mervin C. Yoder, Jr.**, Associate Professor of Pediatrics and Biochemistry and Molecular Biology, IUSM; "Hematopoietic stem cell ontogeny"
- 2/15 **Dr. Wayne Forrester**, Assistant Professor of Biology, IUB; "Cell migration and polarity in *C. elegans*"
- 2/22 **Dr. Liqun Luo**, Assistant Professor of Biology, Stanford University; "Rho-family small GTPase signaling in neuronal morphogenesis"



Biochemistry & Molecular Biology Research Seminar, Thursdays, 12:00 Noon, MS A506/A518

- 2/11 **Yvonne Kobayashi**, "Studies on triadin and insights into its role in Ca²⁺ release"
- 2/25 **Mu Wang**, "Zinc finger of RP, a non-DNA binding element, regulates its DNA binding activity through redox"

Biochemistry Student Seminars Wednesdays, 12 Noon, MS A506

- 2/3 **Ke Zhan**
2/10 **Zhong Wang**
2/17 **Brian Gibbons**
2/24 **Kun Ma**

Other Seminars of Interest

- 2/3 4:00 p.m. Mechanism of Cell Killing by Ganciclovir in HSV-TK-Expressing and Non-Expressing Bystander Cells. **Donna Shewach, Ph.D.**, Dept. of Pharmacology, University of Michigan Medical School; Ann Arbor, MI. **Cancer Research Institute Auditorium**
- 2/8 4:00 p.m. Hematopoietic Stem Cell Ontogeny. **Mervin C. Yoder, M.D.**, Dept. of Pediatrics and Biochemistry/Molecular Biology, IUSM. **Medical Science 326.**
- 2/8 4:30 p.m. Triglycerides: The Forgotten Risk Factor. **Mark Deeg, M.D.**, Dept. of Medicine, Div. of Endocrinology, Richard Roudebush Veterans Administration Medical Center, IUSM. **Krannert Institute of Cardiology, Third Floor Conference Room.**

2/10 4:00 p.m. Molecular Control of Actin Filament Dynamics in Motile Cells. **Selkurt Lecture. Thomas D. Pollard, M.D.**, President, Salk Institute for Biological Studies; La Jolla, CA. **Medical Science 326.**

2/10 4:00 p.m. Phenotypic Analysis of Mice Deficient in the Rho GTPase, Rac 2. **David A. Williams, M.D.**, Kipp Professor of

FEBRUARY BIRTHDAYS

- 2/5 **Jean Hamilton**
2/10 **Mark Goebel**



Pediatrics and Director, Herman B Wells Cancer Center, IUSM. **Cancer Research Institute Auditorium**

2/17 4:00 p.m. Positive and Negative Regulation in the Ras Pathway. **Michael Moran, Ph.D.**, Associate Professor, University of Toronto; Toronto, Canada. **Cancer Research Institute Auditorium.**

2/18 4:00 p.m. Signaling Through CD28 Family Receptors: Pivotal Regulators of T-Cell Activation. **Jill E. Hutchcroft, Ph.D.**, Dept. of Biochemistry, Purdue University; West Lafayette, IN. **Medical Science 326.**

2/24 12:00 noon Interleukin-1 Signaling and Its Role in Human Disease. **Leah Flick**, Graduate Student, Dept. of Medical/Molecular Genetics, IUSM. **Medical Science B26.**

2/25 4:00 p.m. Cross-Talk Between the Tumor Necrosis Factor- α and Interleukin-1 Signaling Pathways. **Maureen Harrington, Ph.D.**, Dept. of Biochemistry/Molecular Biology and Walther Oncology Center, IUSM. **Medical Science 326.**

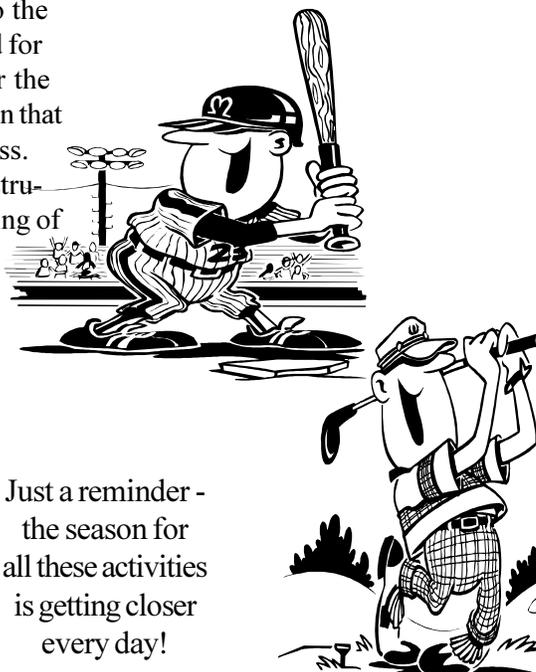
IUPUI to acquire scanning analytical electron microscope

Thanks to financial support from the NSF and a variety of campus sources, IUPUI researchers will obtain an analytical scanning electron microscope for imaging the micro structure and composition of solid materials.

The microscope will produce photographs of objects enlarged thousands of times and simultaneously map the distribution of elements within those objects.

The School of Dentistry will house and maintain the instrument. Maximum access to the instrument will be provided for researchers and help foster the interdisciplinary collaboration that generates scientific progress.

Installation of the instrument is anticipated for Spring of 1999.



Just a reminder - the season for all these activities is getting closer every day!



IMPORTANT DATES

- 2/1 NIH New Research Grants, FIRST and Career Dev. Awards, Program Project & Center Grants
- 3/1 NIH competing renewals and Comitted Continuations
- 3/1 NIH competing renewals, revised grants
- 3/15-21 SPRING BREAK
- 4/2 CAMPUS HOLIDAY
- 5/1 Exams begin
- 5/7 Semester ends
- 5/9 Commencement
- 5/15 Letter of intent due for American Heart Assn.
- 5/16-20 ASBMB Meeting, San Francisco, CA
- 5/31 MEMORIAL DAY
- 6/1 NIH New Research Grants, FIRST and Career Dev. Awards, Program Project & Center Grants
- 7/1 NIH competing renewals, revised grants
- 7/5 INDEPENDENCE DAY
- 7/15 AHA, all grants
- 9/6 LABOR DAY
- 10/1 NIH New Research Grants, FIRST and Career Dev. Awards, Program Project & Center Grants
- 11/1 NIH competing renewals, revised grants
- 11/25 THANKSGIVING
- 12/25 MERRY CHRISTMAS
- 1/1/00 HAPPY NEW CENTURY!