



Biochemistry and Molecular Biology

NOTES



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Congratulations!

The US Patent Office granted patent # 5,902,792 to **Hiremagalur N. Jayaram** for the "Method of Inducing Apoptosis In Cancer Cells".

The IU Cancer Center has appointed **Maureen Harrington** as the Associate Director for Basic Science Research. She will also continue as a leader of the Regulation of Cell Growth Program.

Erin Haag, M.D./Ph.D. student in **Maureen Harrington's** lab, has been appointed the new Indiana University student trustee. Gov. Frank O'Bannon officialized the appointment this week. Erin is the 15th student to serve in the student trustee position since the post was created by the Indiana General Assembly in 1975. Student trustees serve two-year terms on the nine-member board of trustees, which is IU's governing body. Of the 8 other IU trustees, five are appointed by the governor and three are elected by alumni.

Wedding congratulations to **Ross Cocklin** of the Proteomics Core on his marriage to Carrie Smith on July 26th in Bloomington.

New Grant Awards

Peter Roach, T32 Training Grant, National Research Service Award, NIDDK, was awarded for five years for "Research Training Program in Diabetes and Obesity".

Robert Harris, Pilot Program Project (Quantitative Amino Acid Analysis/Transgenic and Knockout Core Facility), "Generation of a Super Mouse".

Lawrence Quilliam, Pilot Program Project (Animal ES Cores), "Generation of rap1A.rap1B null embryonic stem cells to investigate how Rap 1 regulates integrin-mediated adhesion".

Thomas Hurley, PDP grant, "Structural Determinants of Glycogen Initiation".

Maureen Harrington, Pilot Program Project (Proteomics Core), "Cytokine induced changes in the fibroblast phosphoproteome."

Ronald Wek, Pilot Program Project (Center for Medical Genomics), "Identification of GCN4-dependent effector genes which mediate the cellular response to the immunosuppressant drug rapamycin using whole genome transcriptional profiling in the yeast *Saccharomyces cerevisiae*".

Peter Roach, Pilot Program, Pilot Program Project (Genotyping and Gene Expression), "Gene Expression Profiles in the Muscles of Mice with Genetically Altered Glycogen Levels".

Claire Walczak received a 4-year Research Scholar Grant from the American Cancer Society (ACS) for "Mechanistic Analysis of the Microtubule Depolymerizing Kinesin, XKCM1."

Hao Yuan (Helen) Jiang, PDP grant, "eIF2 kinases activate NF- κ B during diverse cellular stresses".

Congratulations to **Tracy Anthony** of the Evansville Center for Medical Education on the birth of her new little one, Amalia "Lia" Anthony, born on Aug. 2 at 12:59 a.m. and weighing in at a staggering 9 lbs. 11 oz. Husband Josh reports that daughter Lexy is very proud to be a big sister.

August Seminars

Biochemistry Seminars
Mondays 4 pm, MS 326

8/7 The Center for Computational Biology and Bioinformatics at Indiana University School of Medicine presents **Dr. Kui Zhang**, Research Associate, Molecular and Computational Biology, Department of Biological Sciences, University of Southern California, Los Angeles, CA. "A Dynamic Programming Algorithm for Haplotype Block Partitioning and Its Application in Association Studies" **12:00 noon, MS B26**

8/12 **Ke Zhan**, Graduate Student, Biochemistry and Molecular Biology, IUSM "Regulation of translational control and activation of eIF2-Kinases in *S. pombe*" **1:30 p.m., MS 326.**

8/21 **Yu Li**, Graduate Student, Biochemistry and Molecular Biology, IUSM, "Rap1 regulation by Ras and Epac2; functional analysis of Rap1A in mouse neutrophils" **1:00 p.m., MS B26**

Bea Chambers, wife of **Marshall Anderson**, passed away Sat. June 28. She worked at South Bend Medical Education Center with Marshall. In lieu of flowers, they are requesting donations to be sent to the American Cancer Society in the name of Beatrice Chambers.

New Faces in Biochemistry



Courtney Tate is a new graduate student; her first rotation will be in Dr. Grow's lab.

Julio Hernandez is a lab assistant in Dr. Thurmond's lab.



Monika Murugesan is a Visiting Research Associate in the lab of Dr. Keith Dunker



Yugong Cheng is volunteering in Dr. Dunker's lab for the next month



Neil Haven is a Research Assistant in the lab of Dr. Keith Dunker.

Recent Publications

Hurley, J. H., Zhang, S., Bye, L.S., **Marshall, M.S.**, **DePaoli-Roach, A.A.**, Guan, K., Fox, A. P., and Yu, L. Insulin signaling inhibits the 5-HT_{2C} receptor in choroid plexus via MAP kinase. *BMC Neuroscience* **4**:10.

Riggins, R.B., **Quilliam, L.A.**, and Bouton, A.H. (2003). Synergistic promotion of c-Src activation and cell migration by Cas and AND-34/BCAR3. *J. Biol. Chem.* **278**, 28264-28273.

Perez-Miller, S. J., **Hurley, T.D.** (2003) Coenzyme Isomerization Is Integral to Catalysis in Aldehyde Dehydrogenase. *Biochemistry* **42**:7100-7109.

Cote, M. L., Pflomm, M., and **Georgiadis, M. M.** (2003) Staying straight with A-tracts: A DNA analog of the HIV-1 polypurine tract. *J. Mol. Biol.* **330**, 57-74.

Pierce, M., Benjamin, K. L., Montano, S. P., **Georgiadis, M. M.**, Winter, E., and Vershon, A. K. (2003) Sum1 and Ndt80 proteins compete for binding to middle sporulation element sequences that control meiotic gene expression. *Mol. Cell. Biol.* **23**, 4814-4825.

Recent Publications, continued

Zhang, Y.; Cocklin, R. R.;
Bidasee, K.R.; **Wang, M.** (2003)
Rapid determination of advanced-
glycation end products of proteins
using MALDI-TOF mass
spectrometry and PERL script
peptide searching algorithm. *J.*
Biomol. Tech. **14**, 224-230.

Cocklin, R. R. and Wang, M.
(2003) Identification of methylation
and acetylation sites on mouse
histone H3 using matrix-assisted
laser desorption/ionization time-of-
flight and nanoelectrospray
ionization tandem mass
spectrometry. *J. Protein Chem.*
22, 327-333.

Bidasee, K. R.; Nallani, K.; Yu, Y.;
Cocklin, R. R.; Zhang, Y.;
Wang, M.; Dincer, U. D.; Besch,
Jr., H. R. (2003) Chronic diabetes
increases formation of advanced
glycation end products on cardiac
ryanodine receptors/calcium-
release channels. *Diabetes* **52**,
1825-1836.

Spurlin, B.A., Thomas, R.M.,
Nevins, A.K., Kim, J.-J., Kim, Y.-
J., Noh, H.-L., Shulman, G.I.,
Kim, J.K., and **Thurmond, D.C.**
(2003) Insulin Resistance in
tetracycline-repressible Munc18c
transgenic mice. *Diabetes* **52**,
1910-1917.

New Biochem Graduate Student Orientation

An orientation session for new
Biochem graduate students will be
held in the Biochem 4th floor
conference room at 9:00 am on
Friday, August 15.

Lab Safety Training: a short session

There will be a 2-hour Lab Safety
Training meeting for new students
and employees on Tuesday, Aug.
19 from 2-4 in MS 326. This is a
condensed version of the usual 4-
hour session, prepared for the
benefits of new students. How-
ever, everyone is invited, including
new employees. Any interested
needs to sign up with Pam in MS
4053 no later than Tues. Aug. 12.

SOM New Faculty Orientation

Monday, Sept. 8
1:00 pm
Riley Outpatient Auditorium

Important Dates

8/14 New Faculty Orientation
8/15 New student orientation
8/20 Classes begin
8/22 Biochem Research Day
9/1 Labor Day
9/5 Biochem family picnic
10/1 NIH New Research
11/1 NIH Competing Continu-
ation and Revised Grants
11/27 Thanksgiving
11/28 Friday after Thanksgiving

Biochem Family Picnic September 5

Come on out to the departmental
picnic for all Biochem personnel
and their families! It's on Friday,
September 5, beginning at 1:00
pm at the Eagle's Crest Group
Picnic Area at 7201 Fishback
Road (off Raceway Road, north
of 71st St.) It's a beautiful,
isolated section of Eagle Creek
Park with a big shelter and lots of
picnic tables and room for sports.

The department will provide soft
drinks, hamburgers, hot dogs and
the "fixins". It's a pitch-in, so
bring your favorite picnic food to
share. Because the Eagle's Crest
area is isolated from the rest of
the park, there is no restriction on
alcohol there, so you are wel-
come to bring a cold beer or two.

We plan to eat from around 1 to
3 pm. At 3:30 there's a softball
match between faculty and
students. There will also be
volleyball and soccer.

So bring your spouse, kids, and/
or significant other and come join
us - rain or shine - for an after-
noon of great food and sports.
Maps are available in the
Biochem office.

If you'd like more info on the
sports activities or to volunteer to
help set up, clean up, or be a grill
master, please contact grad
student representative Suzanne
Young at 274-8695.

Announcing the
**2003 BIOCHEMISTRY AND MOLECULAR BIOLOGY
RESEARCH DAY**

Friday, August 22, 2003
1 – 5 p.m. in the Medical Science Building Atrium

Schedule of Events

1 – 2:30 p.m.	1st session of Poster presentations Refreshments provided	Location: Med Science Atrium
2:30 – 4 p.m.	2nd session of Poster presentations Refreshments provided	Location: Med Science Atrium
4:30 – 5 p.m.	Comments from Chairman – <i>Bob Harris</i> Awards Ceremony – Mark Goebel Peggy Gibson Award for best paper by a student Jack Davis Award for best student seminar Outstanding Mentor Award – <i>presented by grad students</i> Poster Awards – <i>Anna DePaoli-Roach</i>	Location: MS 326

Research Day is an important event for the department. It provides opportunities for:

- ▶ Faculty, post-docs, current and new students to meet
- ▶ Lots of posters!
- ▶ Dr. Harris to update us on departmental activities and plans for the coming year
- ▶ Presentation of Awards

WANTED: POSTERS! This is a great opportunity to describe your successes and tribulations to colleagues and friends. Everyone is invited to participate. “Hot off the press” information is always welcome!

If you plan to present a poster at this year's event:

- please contact Sheila Reynolds in the Biochem Office (sreynoll@iupui.edu; 274-1718) **no later than Friday, August 15 with your name and the poster title**
- provide Sheila with a **copy of the abstract by 9 a.m. on Monday, August 18**
- a **presentation time will be appointed and space will be assigned for each poster.** Location maps will be provided by the Biochem office
- **posters need to be displayed in the atrium by 11 a.m. on Friday, August 22**
- the **presenter needs to be in attendance during the appointed time**

POSTER AWARDS THIS YEAR: there will be four (4) awards of \$100 each. Winners will be announced at the awards ceremony in MS 326 starting at 4:30 p.m.

We look forward to seeing you on Friday, August 22!