



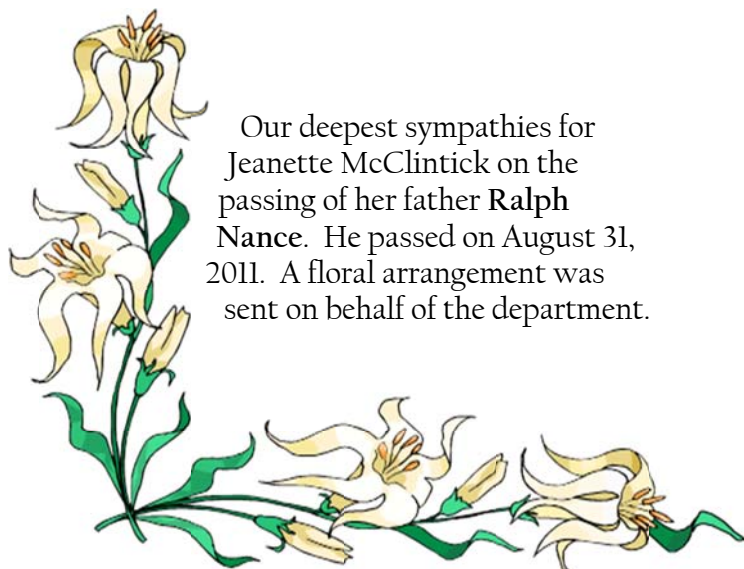
Biochemistry & Molecular Biology NOTES

Volume 23, No. 1 October, 2011

GRANTS AND AWARDS: *CONGRATULATIONS!*

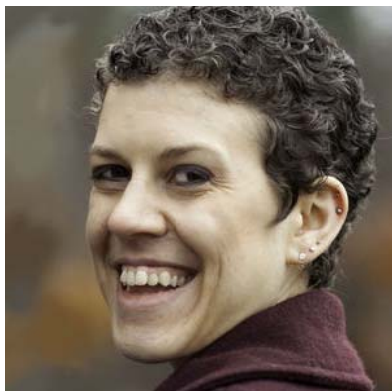
- **HOWARD EDENBERG, Ph.D.** received a new 5-year NIH-NIAAA award for his project titled, “Early Binge Drinking and Gene Regulation” 1U01AA020892-01
- **THOMAS D. HURLEY, Ph.D.** received a new 4-year NIH-NIDDK award for his project titled, “Structural Determinants of Glycogen Synthase Regulation” 1R01DK079887-01A2
- **MARK KELLEY, Ph.D.** and his fellow directors received 3 years of funding under the Signature Centers Initiative Grant Program -2011 for the Center for Pancreatic Cancer Research
- **HUA LU, M.D., Ph.D.** received a new 5-year NIH-NCI award for his project, “The role of ribosomal proteins in the p53-MDM2 pathway” 2R01CA095441-11
- **SAMY MEROUEH, Ph.D.** received a new 4-year Research Scholar Grant from the American Cancer Society for his project titled, “Docking uPAR for Selective Targeting of Cancer Metastasis” RTSG-12-092-01-CDD
- **RONALD WEK, Ph.D.** received a new 4-year NIH-NIGMS award for his project, “Metabolic stress responses and eIF2 kinase GCN2” 2R01GM049164-18A1
- **CLARK WELLS, Ph.D.** received a new 5-year NIH-NCI award for his project, “Regulation of Mammary Cell Proliferation by Apical Polarity Proteins” 1R01CA151765-01A1

~Condolences~



Our deepest sympathies for Jeanette McClintick on the passing of her father **Ralph Nance**. He passed on August 31, 2011. A floral arrangement was sent on behalf of the department.

In Memory of



Erica Marie Daniel Kepner
06/04/1985-08/31/2011

Our hearts go out to Erica's family and friends. Erica started the IBMG program in August, 2007 and found her home in the Biochemistry Department and Debbie Thurmond's lab in May, 2008. Erica passed on August 31, 2011. A floral arrangement was sent to Erica's family on behalf of the Department.



Birth Announcements!

Lina Wang (Zhang lab) and her husband, Jie Xu celebrated the birth of their 1st child, a son named Jason, on September 18th, 2010. He measured 6lbs, 7oz and 19.5".

Andrea Gunawan (Chemical Genomics Lab) and her husband, Herman introduced their 1st child, a daughter named Adeline, to the world on September 18th, 2010. She measured 8lbs, 3oz. and 21.5".

Jamie Mayfield (Office) and her husband Ryan welcomed their first child, a daughter named Ambria, into the world on May 28th. She measured 7lbs, 13oz and 21.5".

May Khanna (Meroueh Lab) and her husband Rajesh celebrated the birth of their first child, a daughter named Sophia on May 4th, 2011. She measured 8lbs, 2oz and 20.75".

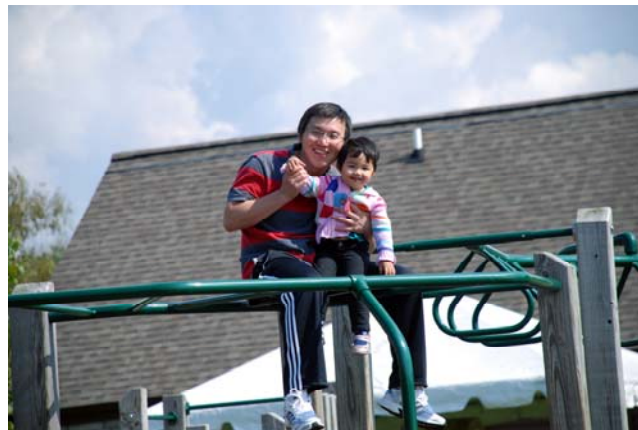


Wedding Bells

Justin Johnson (Atkinson lab) married Amy Stapleton September 25, 2010 at the Scottish Rite Cathedral in Indianapolis. Amy is an IU grad, now working as an occupational therapist.



ANNUAL DEPARTMENT FAMILY PICNIC



The **annual Biochem Department Family Picnic** was held on Friday, Sept. 23, 2011 at a new location, Ft. Harrison State Park, Sycamore Shelter House. It turned out to be a wonderful new location and we couldn't have asked for a more perfect fall day to share food and fun. Hosting this year's festivities were faculty members/event co-chairs: Amber Mosley and Charlie Dong. These two, along with Jack Arthur, Mark Goebel and Sheila Reynolds grilled-up some mean hot dogs, brats, and burgers. Thank you to all who contributed side dishes to this year's pitch-in.



Volleyball was a hit this year, but nothing distracts us from the infamous, faculty vs. grad student softball game. This year, with the assistance of a few new students, the victory and ever-aging trophy went to the students who claimed a close 13-10 victory over the faculty. There's always next year!

A special "thank you" goes out to the faculty co-chairs: Amber Mosley and Charlie Dong and the newly appointed student rep, Derek Woods for their efforts in bringing this event together. We also want to be sure to thank the graduate students who assisted Derek as well as the office staff for their hard work in making the site reservation, obtaining necessary permits, set-up/clean up, photography and everything else to make this a successful event.



New Faces in Biochem

Grad Students



Lauren Bringman
Wells Lab



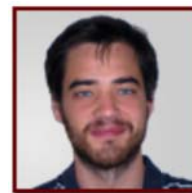
Qiujia Chen
Georgiadis Lab



Melanie Fox
Mosley Lab



Jeffery Gehlhausen
Clapp Lab



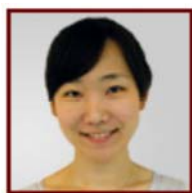
Jeremiah Hendricks
Quilliam Lab



Jacquelyn Lajiness
Conway Lab



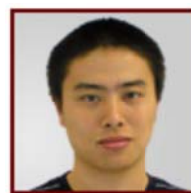
Brandon Lane
Wells Lab



Jiyeon Lee
Matei Lab



Wenjuan Liao
Lu Lab



Yang Lin
Yoder Lab



Jonathon Meador
Yoder lab



Cynthia Morgan
T. Hurley Lab



Heng Zhao
Wang lab

Postdoctoral Fellows



Zhen Xing, Ph.D.
Lu Lab



NEW PUBLICATIONS

Cao L, Shao M, Schilder J, Guise T, Mohammad KS, Matei D. Tissue transglutaminase links TGF- β , epithelial to mesenchymal transition and a stem cell phenotype in ovarian cancer Oncogene. 2011 Oct 3. doi: 10.1038/onc.2011.429. [Epub ahead of print]

Wang, F., Li, J., Sinn, A. L., Knabe, W. C., Khanna, May, Jo, I., Silver, J. M., Oh, K., Li, L., Sandusky, G. E., Sledge, G. W., Nakshatri, H., Jones, D. R., Pollok, K. E., Meroueh, S. O. Virtual Screening Targeting uPAR, Biochemical and Cell-Based Studies, Synthesis, Pharmacokinetic Characterization, and Effect on Breast Tumor Metastasis, *J. Med. Chem.*, 2011: In press

Khanna, M., F. Wang, I. Jo, L. Li, K. Bumerdene, J. Li, R. Khanna, and S.O. Meroueh**, Targeting Multiple Conformations Leads to Small Molecule Inhibitor of the uPAR•uPA Protein-Protein Interaction that Block Cancer Cell . *ACS Chemical Biology*, 2011: In press

Palam, L., Baird, T., and Wek, R. Phosphorylation of eIF2 Facilitates Ribosomal Bypass of an Inhibitory Upstream ORF to Enhance CHOP Translation. *Journal of Biological Chemistry* VOL. 286, NO.13, pp. 10939–10949, April 1, 2011.

Imasaki, T., Calero, G., Cai, G., Tsai, K-L., Yamada, K., Cardelli, F., Erdjument, H.B., Tempst, P., Berger, I., Kornberg, G.L., Asturias, F.J., Kornberg, D.R., and Takagi, Y. (2011). Architecture of the Mediator Head module *Nature* 475, 240-243

This Nature paper has been featured by a press release from IUSM
(<http://communications.medicine.iu.edu/newsroom/stories/2011/researchers-decipher-protein-structure-of-key-molecule-in-dna-tr/>),
Chem&Eng News (<http://pubs.acs.org/cen/news/89/i28/8928notw8.html>),
EurekaAlert (http://www.eurekaalert.org/pub_releases/2011-07/iuso-rdp062911.php),
Human Frontier Science Project (HFSP) website (<http://www.hfsp.org/frontier-science/awardees-articles/architecture-mediator-head-module-revealed>),
and *NSF News from the Field* (http://www.nsf.gov/news/news_summ.jsp?cntn_id=121247)

Baskaran, S., Chikwana, V.M., Contreras, C., Davis, K.D., Wilson, W.A., Depaoli-Roach, A.A., Roach, P.J. and Hurley, T.D. (2011) Multiple glycogen binding sites in eukaryotic glycogen synthase are required for high catalytic efficiency toward glycogen. *J. Biol. Chem.* 286:33999-34006.

Su D, Delaplane S, Luo M, Rempel D, Vu B, Kelley MR, Gross ML, Georgiadis M. (2011) Interactions of APE1 with a redox inhibitor: Evidence for an alternate conformation of the enzyme. *Biochemistry*. 50(1): 82-92. PMID: PMC3070192

Vasko MR, Guo C, Thompson EL, Kelley MR. (2011) The repair function of the multifunctional DNA repair/redox protein APE1 is neuroprotective after ionizing radiation. *DNA Repair* 10: 942-952. PMID: PMC3162094.



Recent Graduates



Subha Krishnan Ph.D.
Reuben Kapur's lab
08/31/2011



Sixin Jiang, Ph.D.
Peter Roach Lab
06/30/2011



Lin Lin Ph.D.
Goebel Lab
02/28/2011

Departments urged to encrypt data

The IU Information Policy Office is urging employees to install software encrypting all laptops and other portable media containing departmental information against the breach of critical data.

Storing data in an encryption state ensures it remains accessible and readable only by authorized persons when a computer is lost or stolen. Per Indiana law, if a computer containing sensitive data is encrypted, its loss or theft is not considered a data breach.

Disclosing data to unauthorized persons, whether intentionally or by accident, can carry penalties up to three years jail time and \$10,000 in fines.

Data encryption is available to departments at no cost through an IU licensing agreement for PGP Whole Disk Encryption, a software program that protects all data stored on a computer's hard drive. This software does not require creating any extra passwords/passphrases and easily integrates into Mac OS X and Windows operating systems.

For more information, visit <http://keepITsafe.iu.edu/pgp> Questions to privacy@iu.edu

Mark your calendars for the *Holiday Party!*



On Friday, December 16th we will have the annual BIOM Holiday Party. Stay tuned for details as the event draws closer