



## The BMB Weekly Vol. 41, No. 7, February 11-15, 2008

Please send submissions to: Katie Gallagher at [galla134@msu.edu](mailto:galla134@msu.edu) or 105B Biochemistry (mailbox on 2<sup>nd</sup> floor)

### Calendar

#### Monday, February 11

**Chemistry Seminar:** Electrochemical synthesis of inorganic electrodes with controlled micro- and nano-structures. Kyoung-Shin Choi, Purdue University, 11:20 a.m., 136 Chemistry.

**Entomology Seminar:** The road less traveled: My life as an army entomologist. Col. Jamie Blow, Armed Forces Pest Management Board, Washington, DC, 4:00 p.m., 244 Natural Science.

**Physics and Astronomy Seminar:** Fast protein folding: Physics meets evolution. Martin Gruebele, University of Illinois, 4:10 p.m., 1400 Biomedical and Physical Sciences.

**Plant Research Lab & Plant Biology Seminar:** Looking at pseudomonas syringae – plant interactions through the aperture of the Type III secretion system. Alan Collmer, Cornell University, 4:10 p.m., 101 Biochemistry.

**Cognitive Science Program:** The neurobiology of consciousness. Christof Koch, California Institute of Technology, 5:30 p.m., 116 Natural Science.

#### Tuesday, February 12

**Statistics and Probability Seminar:** Markov chain and renewal rates of convergence. Robert Lund, Clemson University, 10:20 a.m., A405 Wells Hall.

**Physics and Astronomy Seminar:** Neutrino astronomy with IceCube. Tyce DeYoung, Penn State, 2:00 p.m., 1400 Biomedical and Physical Sciences.

**Center for Research on College Science Teaching and Learning (CRCSTL) Seminar:** Biochemistry concept inventory. Maria Zavodszky, CRCSTL Postdoctoral Research, Michigan State University, 3:00 p.m., 1420 Biomedical and Physical Sciences.

**Chemistry Seminar:** Plasmonic waveguiding. Jess Gunn, Michigan State University, 4:10 p.m., 136 Chemistry.

**Microbiology and Molecular Genetics Seminar:** Kenneth Rock, University of Massachusetts Medical School, 4:10 p.m., 1415 Biomedical and Physical Sciences.

#### Wednesday, February 13

**Breast Cancer Biology Faculty Candidate Seminar:** Culling substrates: Roles for ubiquitin signaling in cell cycle progression. Jeff Singer, Brown University, 10:00 a.m., 1425 Biomedical and Physical Sciences.

**Pharmacology and Toxicology Dissertation Seminar:** Neurogenic mechanisms of salt-sensitive hypertension. Andrew King, Michigan State University, 12:00 noon, B448-449 Life Sciences.

**Ecology, Evolutionary Biology and Behavior Seminar:** Queen and worker influence on sex allocation patterns in honeybee. Kathryn Wharton, Michigan State University, 3:30 p.m., 247 Plant Biology.

**Food Science and Human Nutrition Seminar:** Leptin, an adipocyte derived hormone that regulates pulmonary innate immune responses. Peter Mancuso, University of Michigan, 4:00 p.m., 1135 S. Anthony Hall.

## Calendar continued

### Wednesday, February 13

**BMB Graduate Student Forum:** Presentation by **Namjoon Kim, Ferguson-Miller Lab**, 4:30 p.m., 208 Biochemistry

**The Graduate School:** Ph.D. Job Search Series: Networking or not-working for Ph.D.s: Building relationships for your future. 5:00-7:00 p.m., 6 Student Services. For more information and to register, go to <http://grad.msu.edu/current/jobseries.htm#job>.

### Thursday, February 14

**Statistics and Probability Seminar:** Regularization and variable selection for varying-coefficient models and multiclass support vector machines with applications in genomics. Lifeng Wang, University of Pennsylvania, 10:20 a.m., A405 Wells Hall.

**Biochemistry and Molecular Biology & CIT Seminar:** Systems toxicology of engineered nanomaterials. Joel Pounds, Pacific Northwest National Laboratory, 11:30 a.m., 101 Biochemistry.

**African Studies Center:** Farmer integration of soil-fertility-enhancing trees in cropping systems in southern Malawi. Tracy Beedy, Michigan State University, 12:00 noon, 201 International Center.

**Neuroscience Seminar:** CADASIL: An inherited cause of stroke and dementia. Michael Wang, University of Michigan, 12:30 p.m., 1425 Biomedical and Physical Sciences.

**The Graduate School:** Thesis/Dissertation formatting and graduation requirements. 2:00-3:30 p.m., Kellogg Center. For more information and to register, go to <http://grad.msu.edu/pdf/TD%20F07.pdf>.

**Human Pathology & Physiology Seminar:** Molecular mechanisms in sepsis. Peter Ward, University of Michigan Medical School, 4:00 p.m., 1425 Biomedical and Physical Sciences.

**Chemistry Seminar:** Computer-aided drug lead generation and optimization. William Jorgensen, Yale University, 4:10 p.m., 136 Chemistry.

**Horticulture and Crop & Soil Sciences Seminar:** Human influences on plant viruses in managed and natural vegetation. Carolyn Malmstrom, Michigan State University, 4:10 p.m., A149 Plant and Soil Sciences.

**Physics and Astronomy Seminar:** AGN feedback in clusters and galaxies. Brian McNamara, University of Waterloo, 4:10 p.m., 1415 Biomedical and Physical Sciences.

**Epidemiology Seminar:** Endocrine active compounds and reproductive effects. Anne Sweeney, The Commonwealth Medical College, 4:30 p.m., C102 East Fee Hall, Patenge Room.

### Friday, February 15

**Research Technology Support Facility (RTSF): Solexa Sequencing Technology Seminar:** Whole genome characterization: From mutation detection through transcription and transcription control. Jon Pinter, Application Specialist, 10:00 a.m., 1425 Biomedical and Physical Sciences.

**Transcription Journal Club:** Presentation by **Steve van Nocker, Keystone Summary**, 12:00 noon, 502 Biochemistry.

**Chemistry Seminar:** Applications of laser ablation electrospray ionization for atmospheric pressure, in vivo and imaging mass spectrometry. Jason Grunewald, Michigan State University, 12:40 p.m., 136 Chemistry.

**MSU Teaching Assistant Program, Fine Tuning Your Accent I:** 5:00 – 6:30 p.m, 201 International Center  
The first in a series of workshops, this one will focus on vowels and word stress. For a complete schedule of these workshop offerings, please [click here](#). To register, please send: your name, department, first language, title of appointment/job, number of years in the U.S., and whether you have had previous English instruction in the U.S to [teamprog@msu.edu](mailto:teamprog@msu.edu) as well as the title and session date of the workshop you'd like to attend. More information may also be found at <http://tap.msu.edu/workshops/2008/feb.htm>

## Publications

### **Veronica Maher and Justin McCormick**

Lito P, Mets BD, Kleff S, O'Reilly S, **Maher VM, McCormick JJ**. Evidence That Sprouty 2 Is Necessary for Sarcoma Formation by H-Ras Oncogene-transformed Human Fibroblasts. *J Biol Chem*. 2008 Jan 25;283(4):2002-9.

### **Timothy Zacharewski**

**Kiyosawa N, Kwekel JC, Burgoon LD**, Williams KJ, Tashiro C, Chittim B, **Zacharewski TR**. o,p'-DDT Elicits PXR/CAR-, Not ER-, Mediated Responses in the Immature Ovariectomized Rat Liver. *Toxicol Sci*. 2008 Feb;101(2):350-63.

**Boverhof DR, Burgoon LD**, Williams KJ, **Zacharewski TR**. Inhibition of estrogen-mediated uterine gene expression responses by dioxin. *Mol Pharmacol*. 2008 Jan;73(1):82-93.

### **David Arnosti**

Mani-Telang P, Sutrias-Grau M, Williams G, **Arnosti D.N.** (2007) Role of NAD binding and catalytic residues in the C-terminal binding protein corepressor. *FEBS Lett*. 581:5241-6

**Martinez, C. A. and D. N. Arnosti.** (2008) Spreading of corepressor linked to action of long-range repressor Hairy. *Molecular and Cellular Biology*, in press.

## Grants

**Christopher Benning** received \$160,000 from the U.S. Department of Energy for "Regulation of Thylakoid Lipid Biosyntheses in Plants."

**R. Michael Garavito** received \$50,000 from Vanderbilt University for "SCCOR in Hemostatic and Thrombotic Diseases."

**Eric Hegg** received \$13,963 from Colorado School of Mines for "Renewable Biosolar Hydrogen Production from Roust Oxygen Phototrophs."

**Eric Hegg** received \$173,844 from NIH/PHS for "Elucidating the Biosynthesis and Transport of Heme A."

**Eric Hegg** received \$6,100 from NIH/PHS for "Elucidating the Biosynthesis and Transport of Heme A."

**Eric Hegg** received 246,339 from NSF for "Career: Modeling Acetyl-Co a Synthase – Novel Bioinorganic Chemistry at a Dinuclear Site."

**Charles Hoogstraten** received \$248,121 from NIH/PHS for "NMR and EPR Studies of Ribozyme Catalytic Mechanism."

**Jon Kaguni** received \$228,015 from NIH/PHS for "Mechanisms of Escherichia Coli Chromosomal Replication."

**Laurie Kaguni** received \$279,886 from NIH/PHS for "Mitochondrial DNA Polymerase: Mechanism and Structure."

## Announcements

**The Graduate School:** Securing academic positions – planning, preparation, and interviewing for success. Wednesday, February 20, 2008, Videoconference, 6:30-8:30 p.m., Room 145 Communication Arts and Sciences Building. **Registration is required.** To register, please email [gradwrsp@msu.edu](mailto:gradwrsp@msu.edu).

**Joint Graduate Recruitment Weekend** will be held February 21-24, 2008. Announcements regarding social hours and luncheons are soon to come.

**Graduate Recruitment Party: Weekend #2**, Saturday, February 23, 2008, 5:30 p.m., Trappers Cove Club House. For those who have yet to sign up, please see the sign-up sheets in Jessica Hudson's office in 212 Biochemistry.

**The Graduate School: Responsible Conduct of Research Series:** Objectivity and conflicting interests in academic research. Thursday, February 28, 2008, 6:00-8:30 p.m., Lincoln Room, Kellogg Center. For more information and to register, go to <http://grad.msu.edu/all/resplast.htm>.

## Announcements continued

**Clarence Suelter** has completed his book on the history of natural science at MSU. He has been working on this for a couple of years and it documents 150 years. The book is in PDF and is free. If anyone would like a copy, please email Michael Steger at [natsci4u@msu.edu](mailto:natsci4u@msu.edu).

**Electronics Recycling:** Did you know that CD's, DVD's, and computer tapes and printer media can all be recycled, as well as electronics? Twice-a-year electronics drop-off events are held by the county:

[http://www.ingham.org/hd/ENVHLTH/Waste\\_Management/Waste\\_Services.htm](http://www.ingham.org/hd/ENVHLTH/Waste_Management/Waste_Services.htm)

And [www.greendisk.com](http://www.greendisk.com) will accept CD's, DVD's, printer media and tapes, and small electronics for \$6.95/20 lbs. Note that CRTs and TVs contain about 5 lbs of lead each plus other toxic heavy metals, and should not be disposed of in the trash.

**7<sup>th</sup> Annual Pediatric Research Day:** Friday, March 28, 2008 at the East Lansing Marriott at University Place. For more information on this event, please [click here](#).

## Position Vacancies (copies of postings are in maroon binder in Room 302A Biochem)

**The School of Biological Sciences at Royal Holloway University of London** is hiring for five academic positions. The positions are as follows: two lecturer positions in Biomedical Sciences; one lecturer position in Chemical Biology; Professor/Reader in Neuroscience; and a Senior Lecturer/Reader in Biological Sciences. Applicants with particular interest in the areas of behavior/behavior ecology, modeling, or ecological genomics are especially welcome. Informal inquiries are welcome to the Head of School, Professor Peter Bramley, [p.bramley@rhul.ac.uk](mailto:p.bramley@rhul.ac.uk). **The application deadline is February 27, 2008.** Further details and a copy of the application form are available at <http://www.rhul.ac.uk/Personnel/JobVacancies.htm>.

A **tenure-track Assistant or Associate Professor position** is available in Plant Biochemical and Molecular Genetics at **Purdue University**. The Department of Horticulture and Landscape Architecture at Purdue University invites applications. The successful candidate will establish a vigorous, externally-funded and internationally recognized, state-of-the-art research program utilizing functional genomics and quantitative genetic approaches to understand fundamental principles underlying the biology of plants. Screening of applicants will begin March 14, 2008 and continue until the position is filled. Please visit <http://www.hort.purdue.edu/> for more information. For questions regarding this position, please email Dr. David Salt, Search Committee Chair at [dsalt@purdue.edu](mailto:dsalt@purdue.edu).

## Position Desired

**Attention All Labs: Eric Rosenbaum** is an undergraduate student looking for a job as a lab assistant. He has some experience working in labs. Eric worked as a lab assistant in Dr. Arnosti's lab a couple years ago, and he has volunteered in a lab in Ann Arbor where he gained experience with tissue culture. He is interested in dishwashing or anything else to gain lab experience. If anyone is interested, Eric's resume is in my office. Eric can be reached via email, [rosenb87@egr.msu.edu](mailto:rosenb87@egr.msu.edu) or by phone at (248) 318-1138.

## Scholarship/Fellowship Opportunities

**American Chemical Society Scholars Program:** The ACS Scholars Program is currently accepting applications for the 2008-2009 academic year. The scholarship is designed to encourage the best and the brightest African-American, Hispanic, and Native American students to pursue undergraduate college degrees in the chemical sciences. The goal of this scholarship program is to promote diversity in the chemical sciences by aiding in building an awareness of college students in these minority groups of the value and rewards associated with careers in science and to assist these students in acquiring skills and credentials needed for success in these areas. The ACS Scholars Program will award approximately 100 scholarships to undergraduate students interested in four-year degrees in the chemical sciences; those interested in transferring from two-year to four-year colleges to pursue chemical science degrees; and to two-year students intending to pursue degrees in chemical technology. The scholarship is valued at up to \$2500 per academic year for freshman, and up to \$3000 per academic year for sophomores, and up to \$5000 per academic year for juniors and seniors. For additional information or to apply, please visit <http://www.acs.org/scholars>. If you have questions, please call 1-800-227-5558 ext. 6250 or send an email to [scholars@acs.org](mailto:scholars@acs.org).

## Scholarship/Fellowship Opportunities continued

**2008 AHA Scientific Councils Student Scholarships:** The American Heart Association/American Stroke Association Scientific Councils are please to invite applications for the 2008 Student Scholarships in Cerebrovascular Disease and the 2008 Student Scholarships in Cardiovascular Disease and Stroke. Please visit the scholarship website at <http://www.americanheart.org/scholarships> for complete criteria, an application form, and instructions for applying to one of the 2008 Scientific Councils Student Scholarship Programs. For additional information, please contact Awards Manager Julie Hinterthuer at 214-706-1181 or email [council.awards@heart.org](mailto:council.awards@heart.org). **Application deadline is 5:00 p.m. CST on Friday, February 29, 2008.**

**Hans Kende Memorial Award in Plant Science:** Nominations are being solicited for the Hans Kende Memorial Award. The recipient shall have submitted their dissertation in 2007, and will have written a thesis with a focus on some aspect of plant science. The candidates must be nominated by a faculty member within their area of study. The nomination packet should consist of a nominating letter, a curriculum vitae of the nominee, an abstract of the dissertation, either a copy of the dissertation or publications that derived from it, and any supplemental material deemed appropriate by the person making the nomination. **Nominations are due to Karen Cline, 106 Plant Biology Building, no later than February 18, 2008.**

**FAST Fellowships:** The Graduate School at Michigan State University (MSU) and the MSU Center for the Integration of Research Teaching and Learning (CIRTL) Steering Committee are sponsoring an opportunity for graduate students--the FAST Fellowship Program (Future Academic Scholars in Teaching). The primary goals of the FAST Fellowship Program are to provide opportunities for a diverse group of graduate students to have mentored teaching experiences and to gain familiarity with materials on teaching and assessment techniques. The FAST program is for doctoral students with interests in teaching, learning, and assessment in higher education who are enrolled in programs associated with the Colleges of Natural Science, Agriculture and Natural Resources, Engineering, and Veterinary Medicine and whose college or department has an approved Certification in College Teaching Program. Contact the Graduate School for more information, or visit the FAST website: <http://grad.msu.edu/fast/index.htm>

## Baby News

Congratulations to **Wan Song** on a new baby boy! Will Xinru Song Jia was born on January 25, 2008. He weighs 7 pounds and 9 ounces and measures 20.5 inches.

## Quote for the Week



We forfeit three-fourths of ourselves in order to be like other people. ~ *Arthur Schopenhauer*

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