



The BMB Weekly Vol. 40, No. 45, November 5-9, 2007

Please send submissions to: Katie Gallagher at galla134@msu.edu or 302B Biochemistry (mailbox on 2nd floor)

Calendar

Monday, November 5

Plant Biology Seminar: Mapping and modeling the *Arabidopsis* ionome. Ivan Baxter, Purdue University, 10:30 a.m., 247 Plant Biology.

Chemistry Seminar: Structural basis for the dynamic regulation of protein lysine methylation. Claudia Turro, Ohio State University, 11:20 a.m., 136 Chemistry.

Entomology Seminar: Invasives and inventions: Issues driving field crops entomology in Michigan. Chris DiFonzo, Michigan State University, 4:00 p.m., 244 Natural Science.

Physics and Astronomy Seminar: Photophysics of carbon nanotubes. Tobias Hertel, Vanderbilt University, 4:10 p.m., 1400 Biomedical and Physical Sciences.

Plant Research Laboratory Seminar: Building walls for growth in plants. Herman Hofte, Laboratoire de Biologie Cellulaire, France, 4:10 p.m., 101 Biochemistry.

Tuesday, November 6

Statistics and Probability Seminar: Consistent long-memory parameter estimation in a LARCH time series model and its connection to hurst parameter estimation. Michael Levine, Purdue University, 10:20 a.m., A405 Wells.

CMB Program Research Forum: Role of ubiquitin like protein in peroxisome biogenesis and function. Navneet Kaur, Michigan State University, 1:00 p.m., 2245 Biomedical and Physical Sciences.

Physics and Astronomy Seminar: Pseudo-dirac bino as dark matter and signatures of d-type gauge mediation. Ken Heish, Michigan State University, 2:00 p.m., 1400 Biomedical and Physical Sciences.

Animal Science Seminar: Endogenous retroviruses regulate placental growth and differentiation. Thomas Spencer, Texas A&M University, 2:30 p.m., 1310 Anthony Hall.

Chemistry Seminar: Small systems – great adventures. Afra Panahi, Michigan State University, 4:10 p.m., 136 Chemistry.

Microbiology and Molecular Genetics Seminar: Ray Welsh, University of Massachusetts, 4:10 p.m., 1415 Biomedical and Physical Sciences.

Wednesday, November 7

Ecology, Evolutionary Biology and Behavior Seminar: Bottlenose dolphins of Sarasota Bay: Lessons from 37 years and 5 generations. Randall Wells, Mote Marine Lab, 3:30 p.m., 247 Plant Biology.

BMB Student Forum: Presentation by **Trevor Barkham**, 4:30 p.m., 208 Biochemistry.

The Graduate School Workshop: What's Out There?: Identifying Non-Academic Options in the Ph.D. Job Market. 5:00-6:30 p.m., Spartan Rooms BC, International Center.

Calendar continued

Thursday, November 8

Biochemistry and Molecular Biology Seminar: Biophysical characterization of functional enzyme motions. J. Patrick Loria, Yale University, 11:30 a.m., 101 Biochemistry.

Pediatrics and Human Development Seminar: Inflammatory bowel disease. Rima Jibaly, Hurley Medical Center, 8:00 a.m., Sparrow Hospital Auditorium.

Center for Integrative Toxicology Seminar: Toxicology in an occupational government laboratory. Albert Munson, National Institute for Occupational Safety and Health, Holden Hunt Club Room 1967. Lunch will be provided. RSVP required to Amy Swagart at swagart@msu.edu or 353-6469.

Neuroscience Seminar: Molecular mechanisms underlying memory formation: Role of signal transduction cross-talk. Daniel Storm, University of Washington, 12:30 p.m., 1425 Biomedical and Physical Sciences.

Physiology Seminar: Endothelial progenitor dysfunction in diabetes. Maria Grant, University of Florida-Gainesville, 4:00 p.m., 1425 Biomedical and Physical Sciences.

Chemistry Seminar: Fraser MacMillan, University East Anglia, Norwich, United Kingdom, 4:10 p.m., 136 Chemistry.

Physics and Astronomy Seminar: Megan Donahue, Michigan State University, 4:10 p.m., 1415 Biomedical and Physical Sciences.

Epidemiology Seminar: Endocrine active compounds and reproductive effects. Anne Sweeney, Texas A&M University, 4:30 p.m., C102 East Fee.

Friday, November 9

Kellogg Biological Station Seminar: Wetland ecology and biogeochemistry. Merritt Turetsky, Michigan State University, 10:45 a.m., Building 237 at the Kellogg Biological Station.

Transcription Journal Club: Presentation by **Jianjun Luo**, 12:00 noon, 502 Biochemistry.

Chemistry Seminar: Solid state nanopores for DNA sensing. Suchitra Kaplinghat, Michigan State University, 12:40 p.m., 136 Chemistry.

Announcements

Currently enrolled students who have not enrolled by 8:00 a.m., November 9, for Spring 2008, are subject to a \$50 late enrollment fee.

Flu Clinic Schedule: Flu shots are \$25; the cost of the MSU employee is \$10 for the pilot program (bring your MSU ID). For more information, visit <http://www.uphys.msu.edu>.

Certification in Teaching Info Session: For graduate students interested in careers in teaching, Joyce Parker, Division of Science and Mathematics Education, and possibly Kevin Johnston, Director of MSU's Teaching Assistant Program, will be speaking at the Biochemistry and Molecular Biology graduate student forum on November 7th at 4:30 in room 208 in the biochemistry building. They will be discussing resources available for graduate students interested in teaching, as well as answering any questions and listening to any concerns you may have. Graduate students, could you please pass this along to your constituents and try to find out how many people would be interested in attending this event? When you have a rough headcount, please email me (achberg1@msu.edu) so I can tell Dr. Parker approximately how many handouts she needs to make. We are also going to try to reserve a bigger room to accommodate everyone and I will let you know when we make that change. Thank you very much for your help and feel free to contact me if you have any questions or would like more information.



Announcements continued



Michigan State University celebrates International Education Week 2007 Saturday, November 10 through Sunday, November 18. Sponsored by the U.S. Departments of State and Education, International Education Week was established "to promote programs that prepare Americans for a global environment and attract future leaders from abroad to study, learn, and exchange experiences in the United States."

International education and engagement are cornerstones of MSU's Boldness by Design mission. To provide opportunities for all members of the MSU community to participate in this vision, the Office of International Studies and Programs has planned a broad range of activities in the seventh annual observance of the Week. There is something for everyone at <http://www.iew.msu.edu/>!

Patents (received between July 1, 2007 and September 30, 2007)

Christoph Benning and **Wayne Riekhof**; Compositions and Methods for the Production of Betaine Lipids.

Rawle Hollingsworth; Process for the Preparation of 3,4-Dihydroxybutanoic Acid and Derivatives Thereof From Substituted Pentose Sugars.

Doo Hyun Park and **J. Greg Zeikus**; Compositions and Configurations for Electrochemical Bioreactor Systems.

Grants (received between June 2, 2007 and September 12, 2007)

Zachary Burton; \$278,895; Mechanism and Regulation of RNA Polymerase II Elongation; NIH/PHS.

Shelagh Ferguson-Miller; \$359,667; Energy Transduction in Cytochrome Oxidase; NIH/PHS.

Pamela Fraker; \$329,135; Dietary Zinc: Its Effects on the Immune Response; NIH/PHS.

Kathleen Gallo; \$194,242; Molecular Regulation and Cellular Signaling of LRRK2 in Parkinson's Disease; NIH/PHS

Andrew Mason, Robert Worden, and **Mike Garavito**; \$200,069; IDBR: Temperature Controlled Array Microsystem for Functional Proteomics; NSF

Gregg Howe; \$252,320; Regulation of Defense Signaling in Tomato; NIH/PHS

Lee Kroos; \$297,377; Mechanisms Governing Bacillus Mother Cell Gene Expression; NIH/PHS

John LaPres; \$320,875; Hypoxia and an Epigenetic Mechanism for Toxicity; NIH/PHS

Thomas J. Pinnavaia, Jetze Tepe, and **John LaPres**; \$226,805; New Methods in Phosphoproteomics; NIH/PHS

Robert Last, Dan Jones, Gregg Howe, Curtis Wilkerson, and Kenneth Nadler; \$1,258,001; GEPR: Building and Operating a Chemical Factory; Glandular Trichomes of Solanum Species; NSF

Robert Last, Katherine Osteryoung, John Ohlrogge, Yair Shachar-Hill, **Christoph Benning, Dean DellaPenna, Bill Wedemeyer**; \$1,043,191; Arabidopsis 2010: Understanding Chloroplast Function; NSF

Marcus Pauly; \$19,742; Unrestricted Research; Bayer Cropscience

Denis Proshlyakov and John McCracken; \$206,121; Radicals in O₂ Reduction by Cytochrome Oxidase; NIH/PHS

Gavin Reid; \$25,000; Cross-linking Reagents and Multistage Tandem Mass Spectrometry for the Analysis of Protein-Protein Interactions; American Society for Mass Spectrometry

Kevin D. Walker; \$150,000; Dissecting the Biosynthetic Pathway Organization of Bioactive Neo-Clerodanes in Plants; NSF

Jack T. Watson; \$13,500; General Research; Dow Chemical Co

Grants continued

Tim Zacharewski, Chia-Cheng Chang, Christina Chan, and Jack Harkema; \$357,938; Human Stem Cells for Toxicity Screening; NIH/PHS

Tim Zacharewski and Jack Harkema; \$543,226; Metabolomic Assessment of Estrogenic Endocrine Disruptors; NIH/PHS

Patricia Ganey, (Pharmacology & Toxicology) and **Tim Zacharewski**; \$357,938; Gene Expression in Drug-Inflammation Models as Predictive of Idiosyncratic ADRS: NIH/PHS

Position Vacancies (notices can be found in maroon binder in Room 302A)

Two **tenure-track positions at the level of Assistant Professor** are available in the College of Biological Sciences at **University of California-Davis**. This is a broadly based search for candidates working on bacterial, archaeal or eukaryotic systems (microbial or non-microbial). Candidates must have an outstanding record of achievement in research and will be expected to develop a strong, extramurally funded, research program in microbiology and/or molecular genetics. Successful candidates will be expected to participate in normal undergraduate and graduate teaching responsibilities. Please see <http://microbiology.ucdavis.edu/ugfaculty.htm> for descriptions of faculty research. Due to limits on laboratory space availability, one of the two positions must commence on or after January 1, 2009. Applications will only be accepted online at <http://microbiology.ucdavis.edu/>. Please see the website for details. While applications will be reviewed until the positions are filled, only applications completed by **November 16, 2007** can be assured of full consideration.

Quote for the Week



Believe in yourself! Have faith in your abilities! Without a humble but reasonable confidence in your own powers you cannot be successful or happy. – *Norman Vincent Peale*
