

2007 Intermountain Systems Biology Symposium

June 5 - 7, 2007
Utah State University, Logan, Utah
Eccles Conference Center

AGENDA

Monday, June 4, 2007

4:00 PM - 5:30 Registration

Tuesday, June 5, 2007

8:00 AM Registration and Continental Breakfast

8:30 Welcoming Remarks, **Jeff Broadbent, Ph.D., Associate Vice President for Research, Utah State University**

Fred Sica, Director of Business and Research Development, Inland Northwest Research Alliance

9:00 **Session I: Plant Systems Biology - Chairperson: Daryll DeWald, Ph.D., Associate Director, Center for Integrated BioSystems, Utah State University**

Plenary Presentation: *A Small RNA-Mediated Regulatory Circuit for Plant Salt Tolerance*, Jian-Kang Zhu, Ph.D., Professor of Plant Cell Biology, University of California Riverside

10:00 Refreshment Break

10:30 *Legume Information Network: A Component of the Virtual Plant Information Network*, **Greg May, Ph.D., Program Lead, Nutritional Biology, National Center for Genome Resources**

11:30 Lunch Break - On your own - Tour of the Center for Integrated BioSystems (optional)

1:00 PM **Session I Continuation: Plant System Biology**

Stomatal Responses to Humidity: Cutting the Gordian Knot, **Keith Mott, Ph.D., Biology Department, Utah State University**

1:45 *Cellular Response to the Environment: The Dynamics of Cell Specific Networks in Arabidopsis*, **Kenneth D. Birnbaum, Ph.D., Assistant Professor, Department of Biology, New York University**

2:30 - 5:00 Afternoon Break - Judging of Posters (**Judges only**)

5:00 - 6:30 Poster Reception, including light meal

6:30 **Keynote Address: *USTAR: A Catalyst for Life Science Research, Innovation and Commercialization in Utah*, Ted McAleer, Executive Director, USTAR, State of Utah**

7:30 Adjourn

Wednesday, June 6, 2007

8:00 AM Registration and Continental Breakfast (Announcement of Poster Finalists)

- 9:00 **Session II: Microbial Systems Biology - Chairperson: Jeanette Norton, Ph.D., Associate Professor, Soil Microbiology, Utah State University**
- Dual Function of a Repressor Protein in Controlling both Gene Expression and Mutation Rate*, **Milton Saier, Ph.D., Professor Biology, University of California - San Diego, UCSD**
- 10:00 Refreshment Break
- 10:30 *Rapid Genome Evolution in Bacterial Pathogens: How E. coli 0157:H7 Tests for Successful Allele Combinations of Virulence Gene Regulators*, **Andrew Benson, Ph.D., University of Nebraska - Lincoln**
- 11:30 Lunch Break - On you own
- 1:00 PM **Session II Continuation: Microbial Systems Biology**
- Effect of Local and Long-Range Reservoirs on Microbial Composition in the Atmosphere*, **Gary Andersen, Ph.D., Center for Environmental Biology, Molecular Microbial Ecology, Lawrence Berkeley National Laboratory**
- 1:45 *Nutrient Starvation and Nonculturability in Bacteria*, **Bart Weimer, Ph.D., Director, Center for Integrated BioSystems, Utah State University**
- 2:30 Refreshments and Adjour
- 3:30 - 5:00 Judging of Posters and Poster Interviews of Final Posters
(Poster Presenters and Judges only)

Thursday, June 7, 2007

- 8:00 AM Continental Breakfast
- 8:30 **Session III: Animal Systems Biology - Chairperson: Quinton Winger, Ph.D., Utah State University**
- RNA Interference: A New Method to Study Functional Genomics in Livestock*, **Mark Westhusin, Ph.D., Department of Veterinary Physiology and Pharmacology, Texas A & M University**
- 9:30 *Applying Genomic Strategies to Equine Orthopedic Research*, **James MacLeod, VMD, Ph.D., Gluck Equine Research Center, Department of Veterinary Science, University of Kentucky**
- 10:15 Refreshment Break - Poster Winners Announced, **Steven Billingsley, Executive Director, Inland Northwest Research Alliance**
- 10:30 *Aquaculture Genomics: Are the Waves of the Genomics Revolution Moving Anything Under the Water?*, **Zhanjiang (John) Liu, Ph.D., Aquaculture Coordinator, National Animal Genome Project, College of Agriculture, University of Auburn**
- 11:15 *Immunological Negotiations at the Bovine Maternal-Fetal Interface*, **Chris Davies, Ph.D., Assistant Professor of Immunogenetics, Washington State University**
- 12:00 PM Closing Remarks, **Bart Weimer, Ph.D., Director, Center for Integrated BioSystems, Utah State University**