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HOTELS

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UTAH STATE UNIVERSITY CENTER FOR INTEGRATED BIOSYSTEMS (CIB) is an active and vibrant focal point for life science activities at Utah State University. A multifaceted

core facility, the CIB is dedicated to agricultural and environmental biotechnology research. The Center's scientists and staff work together to further our core components: Research, a Core Service Lab Facility, Biotechnology Training and Student Education.

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Inland Northwest Research Alliance

151 North Ridge Avenue, Suite 140
Idaho Falls, ID 83402



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MEETING INFORMATION AT:

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2007 Intermountain SYSTEMS BIOLOGY Symposium



*June 5 - 7, 2007
Utah State University
Logan, Utah*

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*Inland Northwest Research Alliance
Utah State University Center for Integrated
BioSystems*

Systems biology research is rapidly expanding as a result of large increases in genome sequencing capacity. Industry indicators signal the potential for billions of dollars in productivity in the coming years. This expansion will bring new opportunities for scientists and researchers trained not only in genomics but also in proteomics, metabolomics, and bioinformatics. Sustainable agriculture will require advances in agricultural genomics to answer the needs of an increasing world population and its demands for increased global food production.

The Center for Integrated BioSystems, in collaboration with the Inland Northwest Research Alliance (INRA), is pleased to present the First Annual Intermountain Systems Biology Symposium. The symposium will focus on recent developments in animal, plant, and microbial systems biology. Presentations and discussions will focus on utilization of functional genomics, proteomics, metabolomics, and bioinformatics data and will discuss application of such data in industrial processes and products.

The session on animal genomics will highlight the biochemical pathways that regulate important traits and studies of genes that regulate these pathways. Animal cloning and nuclear transfer investigations are expected to provide innovative solutions to problems in productivity and disease control.

The powerful tools of genomics and proteomics are paving the way to explore basic questions of plant growth and development pathways. Presentations in this session will highlight research efforts to utilize plant genomics on agriculturally important plant varieties.

The session on microbial genomics will emphasize microbial sequencing for generating new and testable hypotheses related to pathogenic and fermentation organisms. New tools and applications related to microbial biodiversity and the impact of environmental adaptation on microbial populations will be among the topics of discussion.

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KEYNOTE SPEAKER

Ted McAleer, Executive Director, USTAR, *USTAR: A Catalyst for Life Science Research, Innovation and Commercialization in Utah*

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PLENARY SPEAKERS

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

Milton Saier, Ph.D., Professor of Biology, University of California – San Diego, *Dual Function of a Repressor Protein in Controlling both Gene Expression and Mutation Rate*

Mark Westhusin, Ph.D., Department of Veterinary Physiology and Pharmacology, Texas A & M University, *RNA Interference: A New Method to Study Functional Genomics in Livestock*

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SESSION SPEAKERS

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

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

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

Andrew Benson, Ph.D., University of Nebraska - Lincoln, *Rapid Genome Evolution in Bacterial Pathogens: How E. coli O157:H7 Tests for Successful Allele Combinations of Virulence Gene Regulators*

Gary Andersen, Ph.D., Center for Environmental Biology, Molecular Microbial Ecology, Lawrence Berkeley National Laboratory, *Effect of Local and Long-Range Reservoirs on Microbial Composition in the Atmosphere*

Bart Weimer, Ph.D., Director, Center for Integrated BioSystems, Utah State University, *Nutrient Starvation and Nonculturability in Bacteria*

James MacLeod, VMD, Ph.D., Gluck Equine Research Center, Department of VS, University of Kentucky, *Applying Genomic Strategies to Equine Orthopedic Research*

Zhanjiang (John) Liu, Ph.D., Aquaculture Coordinator, National Animal Genome Project, College of Agriculture, Auburn University, *Aquaculture Genomics: Are the Waves of the Genomics Revolution Moving Anything Under the Water?*

Chris Davies, DMV, Ph.D., Assistant Professor of Immunogenetics, Washington State University, *Immunological Negotiations at the Bovine Maternal-Fetal Interface*

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REGISTRATION

Visit the symposium website for the full agenda and to register, or complete this tear-off registration form and mail with your payment to INRA at the return address provided. Call INRA at (208) 524-4800 if you have questions.

Name: _____

Title: _____

Organization / Agency: _____

Address 1: _____

Address 2: _____

City, State, Zip: _____

Phone: _____

E-mail: _____

Standard Registration: \$250.00

**Graduate Student/
Post-Doc Registration:** \$175.00

**Undergraduate/
Student Registration:** \$150.00