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Held in conjunction with EB 2007

Organized by: Benjamin F. Cravatt, The Scripps Research Institute, Michael K. Rosen, University of Texas Southwestern Medical Center and the 2007 ASBMB Program Planning Committee

Abstract Submission Deadline: November 8, 2006

Preliminary Program

Genome Dynamics
From Genome to Epigenome
- Modification and Repair
  • Methylating and De-methylating DNA
  • Recombining and Modifying DNA
  • Making and Re-making DNA
  • Telomeres and Telomerase

The Chromosome Cycle
- Centromeres and Kinetochores
- Chromatin Structure and Remodeling
- Chromosome Duplication and Cohesion
- Chromosome Segregation and Aneuploidy

RNA
- Molecular Recognition and Enzymology of RNA
- RNA-Based Gene Regulation
- Small RNAs
- RNA Modification: Mechanism and Function

Protein Synthesis, Folding and Turnover
- Molecular Mechanisms of Protein Biosynthesis
- Co- and Post-Translational Folding
- Protein Modification and Turnover
- Ribosome and Translation

Structure and Design
Macromolecular Structure and Dynamics
- Conformational Transitions and Protein Aggregation
- Experimental and Computational Dynamics
- Protein-Lipid Interface
- Structural and Mechanistic Evolution

Enzymes – Mechanism and Design
- Structural Enzymology
- The Role of Dynamics in Enzyme Catalysis
- Computational Studies of Mechanistic and Dynamical Aspects of Enzymes Reactions
- Enzyme Design

Extracellular Matrix at Multiple Biological Scales
- Extracellular Matrix at the Cellular Scale
- Extracellular Matrix at the Molecular Scale
- Extracellular Matrix at the Organism Scale
- Extracellular Matrix at the Tissue Scale

Chemical Biology
- Chemical Biology of Cell Death
- Fragment Based Drug Discovery
- Chemistry and Cell Biology of Natural Products
- Antibiotics for the 21st Century

Cell Systems
Metabolism
- Metabolic Sensing and Signaling
- Molecular and Cellular Aspects of Metabolic Disease
- Mitochondria in Health and Disease
- Aging and Metabolism

Organelle Dynamics
- Golgi Structure and Biogenesis
- Membrane Biogenesis
- Mitochondrial Dynamic
- Nuclear Dynamics

Systems Biology
- Modeling of Cell Systems
- Molecular Profiling of Cell Systems
- Proteomics of Cell Systems
- Mathematical Biology

Signaling
Biochemistry and Signaling of Lipids
- Biogenesis, Transport and Compartmentalization of Lipids
- Chemical Probes of Lipid Systems
- Lipids as Transcriptional Regulators
- Specific Protein-Lipid Interactions

Signaling Pathways Controlling Cell Structure and Fate
- Cytokine and Growth Factor Signaling
- DNA Damage Signaling
- Cell Cycle
- Signaling to the Cytoskeleton

Public Affairs Advisory Committee
Sponsored Symposium
Sponsored by EB participating societies
- NIH at the Crossroads: How Diminished Funds Will Impact Biomedical Research and what Scientists Can Do About It

Education and Professional Development Committee Sponsored Symposia
- Classroom of the Future II
- Science at Undergraduate Institutions
- Graduate Student/Postdoctoral Starting Faculty Transitions
- Preparing for a Successful Career in Industry

Minority Affairs Committee
Sponsored Symposia
- Best Practices in Program Assessment
- Infectious Diseases in Minority Populations – Hepatitis C
- Genetic Diseases in Minority Populations – Sickle Cell Anemia
- Infectious Diseases in Minority Populations – Tuberculosis

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