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# 2008 ASBMB Annual Meeting

San Diego, CA • April 5-9, 2008

## DNA & RNA Biology

**Genome Dynamics: Replication, Recombination and Damage Response**

- DNA Replication Mechanisms
- DNA Damage Response and the Cell Cycle
- Double-Stranded Breaks and DNA Recombination
- DNA Repair Mechanisms

**Dynamic Chromatin and Gene Expression**

- Chromatin Regulation of DNA Repair, Recombination, and Genome Stability
- Chromatin Structure in Gene Activation
- Chromatin Changes in Development
- Non-Coding RNAs in Gene Regulation and Chromosome Structure

**RNA-Mediated Gene Expression**

- Regulation of Nuclear RNA Metabolism
- Ribonucleoproteins
- RNA Transport and Localization
- RNA Turnover

**Small RNAs and Dynamic RNA Elements**

- Riboregulation
- Dynamic RNA Structures
- The Emerging Non-Coding RNA World
- Roles for Small Non-Coding RNAs

## Molecular Structure & Dynamics

**Protein Synthesis and Turnover**

- Protein Turnover and Quality Control
- Protein Turnover in Cell Regulation
- Mechanisms of Protein Synthesis
- Protein-Assisted Folding and Misfolding

**Form and Function of Molecular Machines**

- Helicases
- Replication
- Gene Expression
- Filament Dynamics

**Biomolecular Catalysis, Folding and Design**

- Protein Interactions in Catalysis
- Enzymes as Drug Targets
- Energetics and Design
- Macromolecular Folding and Fluctuations

## Cell Systems & Metabolism

**Metabolism**

- Metabolism and Diabetes
- Metabolism and Cancer
- Metabolism and Neurodegeneration
- Metabolic Networks

**Systems Biology**

- Global Systems Biology: Parts
- Global Systems Biology: Relationships
- Global Systems Biology: Dynamics
- Local Systems Biology: Subsystems and Simulation

**Cell and Organellar Dynamics**

- Cell Division
- Intracellular Dynamics
- Cell Migration
- Pathogen Exploitation of Host Machinery

## Signaling

**Lipid Signaling and Metabolism**

- Tissue-Specific Regulation of Lipid Metabolism
- Lipids and Control of Gene Expression
- Stress and Lipid Metabolism
- Lipids and Inflammation

**Signal Transduction**

- Signaling in Disease and Therapy
- Growth Regulation
- Post-Translational Modifications
- G Proteins and Protein Kinases

**ASBMB/ASPET**

- Integration of Second Messenger Signaling
- The G-Whizards of GPCR/G-Protein Signaling
- G12/13 Signaling of Cell Surface Receptors: Molecular Insights and Disease Context
- Nicotinic Receptors and Ligand Gated Ion Channels

## Chemical Biology

**Chemical Biology**

- New Strategies for Imaging Protein Localization and Dynamics
- Chemical Perspectives in Neurobiology
- Small Molecule Control of Protein Folding and Assembly
- Chemical Probes and Their Use in Identifying New Therapeutic Targets

**Drug Discovery**

- Drug Discovery in Academic Settings: Is There a Role for Academic Scientists in Early Drug Discovery
- Targets for Drug Discovery: Has Target-Based Screening Failed for Antibacterials?
- Targets for Drug Discovery: Nuclear Hormone Receptors
- Developing and Commercializing University Biomedical Inventions

## Special Sessions

**The Histochemical Society, HCS**

- The *Journal of Histochemistry and Cytochemistry* Plenary Lecture: Genome-wide mapping of gene expression in the adult mouse brain
- Live Imaging of Developmental Processes
- Laser Capture Microdissection for Molecular Analysis
- Phenoms in the Phenome: Experts in Cellular Imaging from Single Molecules to Mice
- Principles and Application of Immunocytochemistry, (HCS Short Course)

<http://www.hcsociety.org>

**Minority Affairs—Mental Health**

- Health Disparities in Alzheimer's Disease: Advances in Understanding Disease Pathogenesis
- CNS Diseases—Depression and Anxiety
- Discovery and Applications
- Drug Abuse

**Education and Professional Development**

- Assessment Issues Workshop
- Classroom of the Future III
- Incorporating Research into Formal Laboratory Courses Workshop
- Starting and Sustaining Undergraduate Research Workshop
- Writing Your First Grant Application Workshop

**Public Affairs**

- Advocacy Training for ASBMB Members

San Diego

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