

2007 ASBMB Annual Meeting

April 28 – May 2, 2007 • Washington, DC

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

Early Registration Deadline: March 2, 2007

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 Enzyme 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 Dynamics
- Nuclear Dynamics

Systems Biology

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

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

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

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Meetings

- Discounted ASBMB Annual Meeting registration fees
- Discounted ASBMB sponsored symposia registration fees
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Advocacy

- Become involved in all levels of governmental activities
- Attend special symposia on exciting topics like Evolution
- Stay connected with areas of legislation that relate to research with our online resources.

Education

- Annual meeting symposia sponsored by the Education & Professional Development Committee
- Free access to all the resources the ASBMB Undergraduate Affiliate Network offers
- Access to the ASBMB Annual Undergraduate Poster Competition
- Links to more educational resources available at www.asbmb.org
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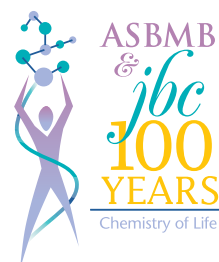
Diversity

- Special Annual meeting symposia sponsored by the Minority Affairs Committee
- FASEB/MARC Visiting Scientists Referral Network
- Access to Minority Travel Awards.

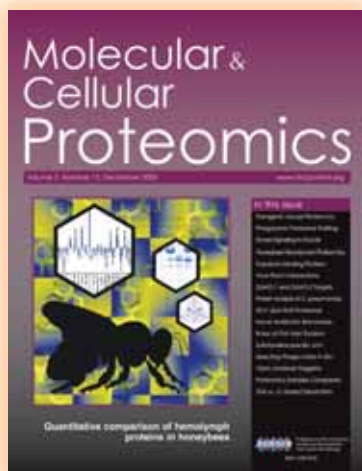
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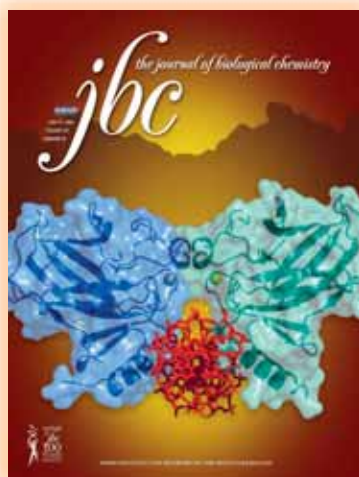
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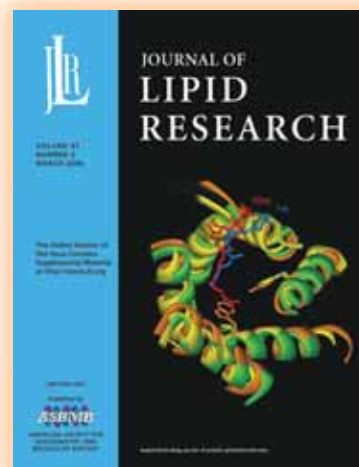
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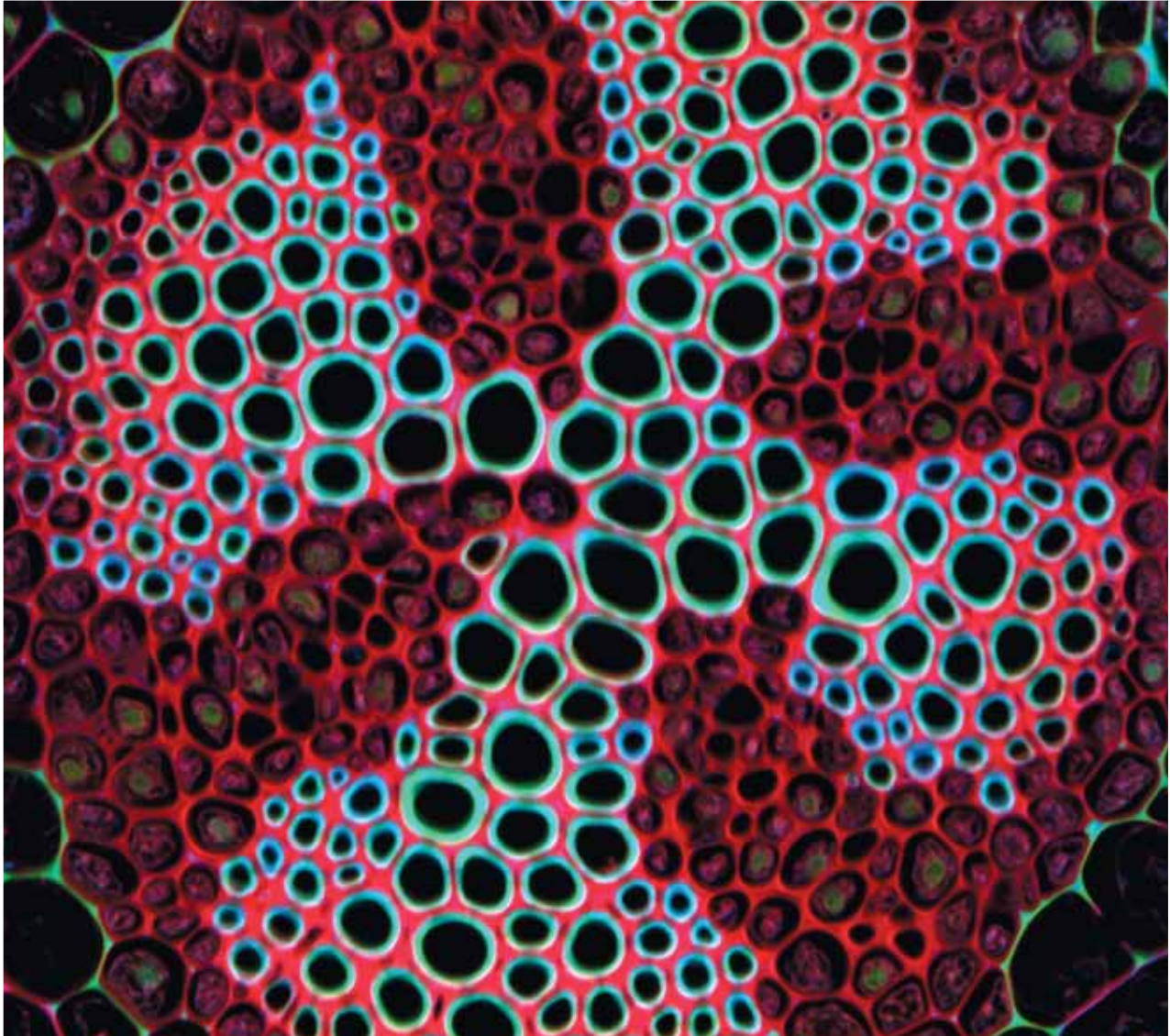
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I M P R O V E Y O U R I M A G E



A root from *Lycopodium selago* (Fir club-moss root) was transverse-sectioned and stained with Safranin O and Fast Green. Fluorescence emissions were imaged using a Leica SP laser-scanning confocal microscope to collect green, red and far-red channels. The channels were combined in Adobe Photoshop to form an RGB image.
Image by: Dr. Jim Haseloff (<http://www.plantsci.cam.ac.uk/Haseloff/>), Department of Plant Sciences, University of Cambridge.

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