



**12<sup>th</sup> World Congress of the  
International Association for Plant Biotechnology (IAPB)  
and the  
2010 In Vitro Biology Meeting of the Society for In Vitro Biology (SIVB)  
America's Center, 701 Convention Plaza, St. Louis, MO**

**Wednesday, June 9**

Sessions in red underline below are SIVB IVACS sessions

- 7:30-8:30 a.m. **Poster Viewing  
Vendor Show**
- 8:30-9:30 a.m. **Plenary Lecture VI**  
Mary Ann Lila, North Carolina State University, USA  
*"Biomarkers: At the intersection between nutrition, human health,  
and agriculture"*
- 9:30-10:30 a.m. **Plenary Lecture VII**  
Peter Beyer, Albert-Ludwigs Universitat Freiburg, Germany
- 10:30-11:00 a.m. **Morning Break**
- 11:00 a.m.-12:00 p.m. **Plenary Lecture VIII**  
Steven Puepke, Michigan State University, USA  
*"The global rush to biofuels and what we are learning about food  
production, sustainability, and the carbon economy"*
- 12:00-1:00 p.m. **Lunch in Ballroom  
Poster Viewing  
Vendor Show**
- 1:00-3:00 p.m. **Concurrent Symposia  
(speaker opportunities available for some sessions)**
- Biotic Stress I**  
Godelieve Gheysen, Ghent University, Belgium  
*"RNAi for research and applications in plant nematode  
interactions"*

1:00-3:00 p.m.

**Concurrent Symposia (continued)**  
(speaker opportunities available for some sessions)

**Crop Biofortification I**

Cathie Martin, John Innes Centre, U.K.

*“Tackling chronic diseases: The potential of preventive medicine through improvements to foods”*

**Forest Biotechnology I**

Norm Lewis, Washington State University, USA

*“Trees now and in the future: A fantastic molecular bounty”*

**New Biofuels Feedstock I**

Hans Blaschek, University of Illinois at Urbana-Champaign, USA

*“Prospects for the new bioeconomy”*

**Gene Expression/Stacking III**

Rita Varagona, Monsanto Company, USA

*“Vector technologies for plant biotechnology”*

Jeff Smith, Precision BioSciences, Inc., USA

*“Efficient plant genome engineering using designed homing endonucleases”*

**Optimizing Mineral Composition of Plant Growth Media**

Richard Williams, University of Queensland, Australia

*“Mineral nutrition in plants in vitro”*

Randall Niedz, USDA-ARS, USA

Jeff Adelberg, Clemson University, USA

*“Spent medium analysis in plant tissue culture”*

Barbara Reed, USDA-ARS, USA

*“Improving in vitro mineral nutrition for diverse pear germplasm”*

**Biological Sensors of Environmental, Chemical, and Biological Toxicants**

Lucila Lee, Wilfrid Laurier University, Canada

*“Fish & Chips: Toward the development of portable water testing devices”*

Mark Widder, U.S. Army - CEHR, USA

*“A portable impedance-based biosensor and automated cell maintenance system for water toxicity testing”*

Vipin K. Rastogi, U.S. Army - ECBC, USA

*“Development of a cell-based function assay for detecting very low holoricin levels”*

Charles Neal Stewart, University of Tennessee, USA

*“Phytosensors: Plants to report pathogens and environmental contaminants”*

3:00-3:30 p.m.

**Afternoon Break**

3:30-5:30 p.m.

**Concurrent Symposia**  
(speaker opportunities available for some sessions)

**Biotic Stress II**

Eric Ward, Two Blades Foundation, USA

**Crop Biofortification II**

Michael Grusak, USDA-ARS Children's Nutrition Research, USA

Mark Manary, Washington University School of Medicine, USA

*“Biotechnology and the potential it has to improve human health”*

**Forest Biotechnology II**

Maud Hinchee, ArborGen, LLC, USA

*“Purpose-grown trees for a sustainable future”*

**New Biofuels Feedstock II**

Richard Sayre, Donald Danforth Plant Science Center, USA

**Gene Expression/Stacking IV**

Vipula Shukla, Dow AgroSciences LLC, USA

*“Targeted genome modification in plants:*

*The ExZact™ precision technology platform*

Greg Gocal, Cibus, LLC, USA

*“RTDS: A molecular spell checker for trait development”*

**Novel Plant Growth Regulators for Plant Production**

Karel Dolezal, Palacky University, Czech Republic

**Evaluating the Impact of Bioactive Molecules on Animals using  
In Vitro Models**

Lena Gerwick, Scripps Institution of Oceanography, USA

*“The anti-inflammatory effect of the marine natural product  
malyngamide F Oac”*

Brian Dixon, University of Waterloo, Canada

*“The effect of soy proteins and anti-nutritional factors on a  
salmonid gut cell line”*

Lucila Lee, Wilfrid Laurier University, Canada

*“Evaluating the biocidal activity of antimicrobials using fish cell  
lines”*

5:30-7:00 p.m.

**Poster Viewing (odd)  
Vendor Show**

7:00-9:00 p.m.

**Workshops**

The Basics of Cellular Imaging Workshop

David Piwnica-Worms, M.D., Washington University at St. Louis

*“Real-time imaging of signal transduction pathways and drug action in live cells and animals”*

Britney Moss, Washington University at St. Louis

*“Real-time bioluminescence imaging of NF-kappaB signal transduction in live cells”*

James Johnson, Washington University at St. Louis

*“Caspase-activated cell penetrating probes for in vivo optical imaging of retinal neurodegeneration”*

**If you are interested in hosting a workshop,**  
**please** (contact [iapb2010@missouri.edu](mailto:iapb2010@missouri.edu) for more information)

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