



**12th 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**

Tuesday, June 8

Sessions in red underline below are SIVB IVACS sessions

- 7:30-8:30 a.m. **Registration** (and throughout Congress)
- 8:00-8:30 a.m. **Poster Viewing and Vendor Show**
- 8:30-9:30 a.m. **Plenary Lecture IV (sponsored by Monsanto)**
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 V**
Pascal Braun, Center for Cancer Systems Biology,
Dana Farber Cancer Institute, Harvard University, USA
*"Interactome network mapping to study biology and disease on a
systems level"*
- 10:30-11:00 a.m. **Morning Break**
- 11:00 a.m-12:00 p.m. **Plenary Lecture VI (sponsored by Monsanto)**
Mark Howden, CSIRO, Australia
*"The role of science in adapting to climate change:
The Australian experience so far"*
- 12:00-1:00 p.m. **Lunch in Ballroom**
Poster Viewing
Vendor Show
- 1:00-3:00 p.m. **Concurrent Symposia**
- Renewables from Plants III**
Eliot Herman, Donald Danforth Plant Science Center, USA
"Engineering seed protein content"

Concurrent Symposia (continued)

Abiotic Stress II

Michael Thomashow, Michigan State University, USA

“Plant cold acclimation: Identifying gene regulons involved in freezing tolerance”

Arie Altman, Hebrew University of Jerusalem, Israel

“Plant tolerance to salinity stress is regulated by the metabolome and by summoylation of SP1, a novel stress-associated protein”

Insect Resistance and Management

Michael Adang, University of Georgia, USA

“Engineering plants for resistance to insects and management of resistance”

Usha Barwale Zehr, Maharashtra Hybrid Seeds Co., Ltd., India

“Developing transgenic crops for South Asian markets and their impact on agriculture”

Signal Transduction, Genomics, Metabolomics II

Xuemin (Sam) Wang, DDPSC and University of MO-St. Louis, USA

“Lipid signaling: Connecting stress and nutrient sensing to growth responses”

Oliver Fiehn, University of California-Davis, USA

“Plant metabolomics: Systemic response to nutrient deprivation in C. reinhardtii”

Nutrient Uptake and Utilization

Stephan Clemens, Bayreuth University, Germany

“Learning from extremes: Mechanisms of Zn accumulation in plants”

David Salt, Purdue University, USA

“Genetic dissection of the Arabidopsis thaliana ionome”

Challenges in Acclimatizing and Rooting *In Vitro* Propagated Plants

John Preece, National Clonal Germplasm Repository, USA

and National Arid Land Plant Genetic Resource Unit, USA

“Microshoot encapsulation for cold storage, clean up from arthropod infestations, and acclimatization to the ambient environment”

Advanced Dynamic 3D *In Vitro* Systems

Addy Alt-Holland, Tufts University, USA

“Bioengineered Caco-2 tissues: Novel in vivo-like three-dimensional tissue platforms for drug absorption screening”

Elliot L. Elson, Washington University School of Medicine, USA

“Tissue constructs as test systems for studying tissue physiology and pathology”

Shuichi Takayama, University of Michigan, USA

“Microfluidic engineering of stem cell niches and 3D tissue models”

3:00-3:30 p.m.

Afternoon Break

3:30-5:30 p.m.

Concurrent Symposia continued

Renewables from Plants IV

Nii Patterson, Metabolix, Inc., USA

“The role of crop science in industrial biotechnology”

Abiotic Stress III

Yafan Huang, Performance Plants, Canada

“Advancement in genetic engineering of drought and heat stress tolerance for crop yield protection”

Factors Influencing the Culture of Recalcitrant Species

Paula Pijut, Purdue University, USA

“Conservation and genetic improvement of fine hardwood tree species”

**The Use of Stems Cells in Regenerative Medicine and
In Vitro Toxicology**

Thaddeus Stappenbeck, M.D., Wash. Univ. School of Med., USA

“The regeneration of intestinal stem cells after injury”

Kyle J. Hewitt, Tufts University, USA

“3-D epithelial tissues generated from human embryonic stem cells”

Patrick McNutt, USAMRICD, USA

“Development and application of embryonic stem cell-derived neurons for botulinum neurotoxin research”

5:30-6:30 p.m.

IAPB Council Meeting

5:30-7:00 p.m.

**Poster Viewing (even)
Vendor Show**

6:00-7:30 p.m.

**Workshops (sponsored by Cargill)
siRNA and miRNA Plant Biotechnology**

Lining Tian, Agriculture and Agri-Food Canada

Mark Jordan, Agriculture and Agri-Food Canada

7:00-9:00 p.m.

How to Get the Most from a Scientific Conference

Convener: S. Richelle Monaghan

Panelists:

Stephanie J. DeWitte-Orr, McMaster University, Canada

Brian Dixon, University of Waterloo, Canada

Lucy Lee, Wilfrid Laurier University, Canada

Gregory C. Phillips, Arkansas State University, USA

Barbara Reed, USDA/ARS, USA

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