

SUSTAINABILITY, GENETICS, AND FUTURE CULTIVARS PREMEETING HOT TOPIC - SUNDAY, SEPTEMBER 29, 2013

PROGRAM



Sustainability, Genetics, and Future Cultivars

12:30 – 3:30 p.m.

Room: Grand Pavilion II, Hyatt Regency Albuquerque

Organizers: Anne Bridges, AACC International, St. Paul, MN, U.S.A.; Ray Shillito, Seed and Trait Safety, Bayer CropScience LP, Morrisville, NC, U.S.A.

Financial Sponsor: The ILSI International Food Biotechnology Committee

This Hot Topic will provide an overview of current breeding technologies for grains and oil seeds, new crops, potential food benefits, and the corresponding updates in molecular detection methods to manage authentication in the food supply chain.

- **The range of modern plant breeding methods. R. STUPAR**, Department of Agronomy and Plant Genetics, University of Minnesota, St. Paul, MN, U.S.A.
- **How can we increase crop yield under real conditions to better feed the world? M. TUINSTRA**, Purdue University, West Lafayette, IN, U.S.A.
- **New approaches to changing plant and food composition. J. PITKIN**, Wheat Technology Team, Monsanto Company, St. Louis, MO, U.S.A.
- **Composition analysis of food derived from modern breeding technology. J. SRINIVASAN**, FDA/CFSAN/OFAS/DBGNR, College Park, MD, U.S.A.
- **Identity preservation and purity in the supply chain. R. GIROUX**, Quality and Regulatory, Cargill Incorporated USA, Minneapolis, MN, U.S.A.
- Panel Discussion.

Speaker Biographies:

Dr. Robert Stupar is an assistant professor in the Department of Agronomy and Plant Genetics at the University of Minnesota. He received his PhD from the University of Wisconsin. His primary research interests are in soybean genomics, with an emphasis on genome structural variation and translating genome engineering technologies into crop plants.

Dr. Mitch Tuinstra is a Professor of Plant Breeding and Genetics at Purdue University. He studies how cereal crops like maize and sorghum can be enhanced through plant breeding to improve crop productivity in stressful environments. Given the predictions of climate change, there is a tremendous need to understand how crop plants respond to heat and drought stresses and how this information can be translated in developing varieties that are better adapted to abiotic stress.

Dr. Tuinstra began his academic career at Kansas State University where he headed a sorghum crop improvement program for drought-prone environments. He joined the faculty at Purdue University in 2007 and directs agricultural research projects with collaborators in the United States, Africa, Asia, and Europe. The main focus of his research involves analyses of genetic variation in key crops with the aim to discover genes or traits that improve plant tolerance to adverse growing conditions. He supports education and training programs for students and researchers in public and private sector programs around the world.

Dr. John Pitkin

- B.A., Biology, California State University, Northridge
- Ph.D., Biology, University of California, Irvine.
- Postdoctoral research in Jon Walton's lab at the DOE Plant Research Laboratory, Michigan State University.
- Joined Monsanto in 1997: Project/program leader for multiple gene discovery projects for fungal, insect and nematode control.

Current Role: Agronomic Traits Pipeline Lead in the Wheat Technology Team

Dr. Jannavi Srinivasan

- B.A., Biology, California State University, Northridge
- Ph.D., Biology, University of California, Irvine.
- Postdoctoral research in Jon Walton's lab at the DOE Plant Research Laboratory, Michigan State University.

Dr. Randal Giroux currently holds the position of Vice President, Food Safety, Quality, and Regulatory Affairs at Cargill Incorporated. Randal supports Cargill businesses globally around agricultural biotechnology and is active professionally working with both science and trade organizations across the supply chain. He is recognized as an industry expert in the integration of agricultural biotechnology in global food and feed supply chains.