

# Program Agenda

## Sunday, October 9

- 10:00AM Executive Committee Meeting  
5:00pm-7:00pm Registration Open  
5:00PM-7:00PM Poster Display Set-up  
5:00PM-7:00PM Early Bird Social  
7:00PM-9:00PM ISHS Business Meeting

## Monday, October 10

- 7:00AM-6:00PM Registration  
7:00AM-8:00AM Morning Refreshments  
7:00AM-9:00PM Posters on Display  
8:15AM-8:45AM **Opening Remarks and Welcome**  
– *Richard Litz*, Tropical Research & Education Center, University of Florida, Homestead, Florida  
– *William Brown*, Assistant Dean, University of Florida/IFAS, Gainesville, Florida  
– *Ralph Scorza*, USDA-ARS, Appalachian Fruit Research Station, Kearneysville, West Virginia

### 8:45AM-12:00PM GENERAL SESSION 1 – GM AND NON GM BIOTECHNOLOGICAL APPROACHES

Chairs: *Ralph Scorza* and *Rod Drew*

- 8:45AM-9:30AM **Genetic Modification in Fruit Breeding: the Papaya Example** – *Richard Manshardt*, University of Hawaii, Manoa, Hawaii  
9:30AM-10:15AM **Ten Years of Plant Biotechnology Products: Proven Success and Future Applications** – *David Songstad*, Monsanto, St. Louis, Missouri  
10:15AM-10:45AM Refreshment Break  
10:45AM-11:30AM **Genetic Modifications in Floral Crops: Research to Marketplace** – *Steve Chandler*, Florigene, Collingwood, Victoria, Australia  
11:30AM-12:00PM **Overcoming Challenges to Deliver Transgenic Horticultural Products to US and Overseas Markets** – *Katherine Kahn*, Foreign Agricultural Service US Department of Agriculture, Washington, District of Columbia  
12:00PM-1:30PM Lunch on Own

**Monday, October 10** (continued)

**1:30PM-3:00PM** **GENERAL SESSION 1 (CONTINUED) – GM AND NON GM**

**BIOTECHNOLOGICAL APPROACHES**

**Chairs:** *Gale McGranahan* and *Luis Navarro*

1:30PM-2:15PM **Genetics, Epigenetics and Crop Improvement – *Pat Heslop-Harrison***,  
University of Leicester, Leicester, United Kingdom

2:15PM-3:00PM **Applications of Somatic Hybridization and Cybridization in Scion  
and Rootstock Improvement with Focus on Citrus – *Jude Grosser***,  
UF/IFAS CREC, Lake Alfred, Florida

3:00PM-3:30PM Refreshment Break

**TWO CONCURRENT SESSIONS**

**3:30PM-4:50PM** **TEMPERATE - HOT TOPICS**

**Chairs:** *Jay Norelli* and *Chinnathambe Srinivasan*

3:30PM-3:50PM **Monitoring Differential Expression during Fruit Maturation,  
Ripening and Storage as an Identification Tool for Gene Candidates  
for Superior Apple Fruit Quality – *Rozemarijn Dreesen***, KULeuven,  
Heverlee, Belgium

3:50PM-4:10PM ***BpMADS4* - a MADS Box Gene of Birch Induces Flowers on  
Transgenic Apple Plants in vitro – *Henryk Flachowsky***, Institute of  
Fruit Breeding, Dresden, Germany

4:10PM-4:30PM **Using MAT Vector System to Produce Marker-free Transformed  
Apricot Plants – *Lorenzo Burgos***, CEBAS-CSIC, Murcia, Spain

4:30PM-4:50PM **Genetic Transformation of Apple without Use of a Selectable Marker  
– *Herb S. Aldwinckle***, Cornell University, Geneva, New York

**3:30PM-4:50PM** **TROPICAL - NON-GM TECHNOLOGIES**

**Chairs:** *Fernando Pliego-Alfaro* and *Simon Raharjo*

3:30PM-3:50PM **Recovery of Sexual Triploid Seedless Mandarin Hybrids by Embryo  
Rescue and Flow Cytometry – *Luis Navarro***, Instituto Valenciano de  
Investigaciones Agrarias, Moncada Valencia, Spain

3:50PM-4:10PM **Somaclonal Variation in Tissue Culture Originated Date Palm off-  
types - Molecular Characterization of the Most Common off-types –  
*Yuval Cohen***, Volcani Research Center, Beit-Dagan, Israel

4:10PM-4:30PM **Genetic Improvement of Asexually Propagated Plants –  
*Diogenes Infante***, Instituto de Estudios Avanzados, Caracas,  
Venezuela

4:30PM-4:50PM **Somatic Hybridization and Androgenesis as a Tool for Banana  
Breeding – *Akym Assani***, University of Guelph, Ontario, Canada

5:00PM-7:00PM **Formal Poster Session**

7:00PM-9:00PM **Welcome Reception**

## **Tuesday, October 11**

7:00AM-6:00PM Registration

7:00AM-8:00AM Morning Refreshments

7:00AM-9:00PM Posters on display

### **8:30AM-11:55AM GENERAL SESSION 2 – DISEASE AND STRESS RESISTANCE/GROWTH AND DEVELOPMENT/PRODUCT QUALITY**

**Chairs: Richard Bell and Tom Zimmerman**

8:30AM-9:15AM **How can Knowledge about the Molecular Bases of Plant Disease and Disease Resistance Help Engineering of Resistance in Crops? – *Oliver LeGall*, UMR INRA/Univ. Bordeaux, France**

9:15AM-10:00AM **Genomics Approaches to Understanding Ripening Control and Fruit Quality in Tomato – *James Giovannoni*, USDA-ARS, Cornell University, Ithaca, New York**

10:00AM-10:30AM Refreshment Break

10:30AM-11:15AM **Using Biotechnology to Improve Resistance to Environmental Stress in Fruit Crops: The Importance of Understanding Physiology – *Michael Wisniewski*, USDA-ARS Kearneysville, West Virginia**

11:15AM-11:35AM **Development of Papaya Varieties for Florida with Genetically Engineered Resistance to *Papaya Ringspot Virus* – *Michael Davis*, University of Florida/IFAS, Gainesville, Florida**

11:35AM-11:55AM **Understanding the Carotenoid Biosynthetic Pathway in Citrus for a Biotechnological Improvement of Fruit Quality – *Lorenzo Zacarias*, Burjasot, Valencia, Spain**

12:00PM-1:30PM Lunch on Own

### **1:30PM-4:00PM GENERAL SESSION 2 (CONTINUED) – DISEASE AND STRESS RESISTANCE/GROWTH AND DEVELOPMENT/PRODUCT QUALITY**

**Chairs: Stefano Tartarini and Lorenzo Zacarias**

1:30PM-1:50PM **Resistance to Passion Fruit Woodiness Virus in Transgenic Plants of the Yellow Passion Fruit Expressing the Viral Coat Protein Gene – *Jorge Rezende*, ESALQ - Universidade de São Paulo, Brazil**

1:50PM-2:10PM **Strategies for Obtaining Fire Blight Resistance in Apple by rDNA Technology – *Ewa E. Borejsza-Wysocka*, Cornell University, Geneva, New York**

2:10PM-2:30PM **Transformation of a Monocot Transcription Factor Associated with Early Flowering into Embryogenic Cell Suspension of Banana Cv Mas – *Rofina Yasmin Othman*, University of Malaya, Kuala Lumpur, Malaya**

2:30PM-3:00PM Refreshment Break

3:00PM-3:20PM **Molecular Interactions between Plum Pox Virus and the Capsid Cistron Engineered in *Prunus domestica* – *Jiban Kundu*, Research Institute of Crop Production, Prague, Czech Republic**

**Tuesday, October 11** (continued)

- 3:20PM-3:40PM **Effects of Environmental Stresses and Abscisic Acid on the Expression of *sorbitol-6-phosphate dehydrogenase* in Rosaceae Fruit Trees** – *Yoshinori Kanayama*, Tohoku University, Sendai, Japan
- 3:40PM-4:00PM **Functional Genomics of Grape Seedlessness** – *Avi Perl*, Volcani Center, Bet-Dagan, Israel
- 4:00PM-5:00PM **Formal Poster Session**
- 5:00PM Dinner on Own

**7:00PM-7:50PM GENERAL SESSION 3 – INTEGRATING BIOTECHNOLOGY INTO BREEDING PROGRAMS**  
Chair: *Ralph Scorza*

- 7:00PM-7:25PM **Improving Disease Resistance in Citrus Using Genomic Approaches** – *Fred G. Gmitter*, University of Florida/IFAS - CREC, Lake Alfred, Florida
- 7:25PM-7:50PM **Molecular Genetics in Persian Walnuts: A Breeder's Perspective** – *Gale McGanahan*, University of California, Davis, California

**TWO CONCURRENT SESSIONS**

**7:55PM-9:00PM DISEASE AND STRESS RESISTANCE/GROWTH AND DEVELOPMENT /PRODUCT QUALITY**  
Chairs: *Timothy Artlip* and *Kamal Chowdhury*

- 7:55PM-8:10PM **Prolonged Longevity of Cymbidium Flowers through Genetic Transformation** – *Li-chun Huang*, Academia Sinica, Taipei, Taiwan
- 8:10PM-8:25PM **Characterization of Ripening-specific MADS-box Genes from Banana** – *Haya Friedman*, Volcani Center, Bet Dagan, Israel
- 8:25PM-8:40PM **Molecular Marker-based Selection for Nematode Resistance in Peanut (*Arachis hypogaea* L.)** – *Sivananda Tirumalaraju*, University of Florida/IFAS, Gainesville, Florida
- 8:40PM-9:00PM **Discussion**

**Tuesday, October 11** (continued)

**TWO CONCURRENT SESSIONS** (continued)

**7:55PM-9:00PM**    **COMMERCIALIZATION OF TRANSGENICS**

Chairs: *Zongrang Liu* and *Cecilia Zapata*

- 7:55PM-8:10PM    **Field Performance of Transgenic Citrus Plants in Spain – *Leandro Peña***, Instituto Valenciano de Investigaciones Agrarias (IVIA), Valencia, Spain
- 8:10PM-8:25PM    **USDA/APHIS Regulation of Genetically Engineered Plants – *John Cordts*** - USDA/APHIS, Biotechnology Regulatory Services, Riverdale, Maryland
- 8:25PM-8:40PM    **Intellectual Property Rights and Regulatory Issues Related to Biotechnology of Tropical Species in India – *Jitendra Prakash***, Invitro International Pvt. Ltd., Karnataka, India
- 8:40PM-9:00PM    **‘HoneySweet’ – A Transgenic *Plum pox virus* Resistant Plum – Development, Field Testing, and Regulatory Issues – *Ralph Scorza***, USDA-ARS, Kearneysville, West Virginia

**Wednesday, October 12 – *Optional Professional Tour***

## **Thursday, October 13**

- 7:00AM-6:00PM Registration  
7:00AM-8:00AM Morning Refreshments  
7:00AM-9:00PM Posters on Display

### **8:30AM-12:10PM GENERAL SESSION 4 – INTEGRATING GENOMICS INTO BREEDING**

#### **PROGRAMS**

Chairs: *Viola Hanke* and *Maria Gallo Meagher*

- 8:30AM-9:15AM **Integrating Genomics into Rosaceae Tree Fruit Breeding Programs – *Pere Arús*, IRTA Barcelona, Spain**
- 9:15AM-10:00AM **Current Challenges of Tropical Tree Crop Improvement: Integrating Genomics into an Applied Cacao Breeding Program – *Ray Schnell*, USDA ARS, Miami, Florida**
- 10:00AM-10:30AM Refreshment Break
- 10:30AM-10:50AM **Intergeneric Hybridization Between *Carica Papaya* and Wild *Vasconcellea* Species and Identification of a PRSV-P Resistance Gene – *Rod Drew*, Griffith University, Nathan, Australia**
- 10:50AM-11:10AM **Almond Shoot Regeneration in *Prunus dulcis* - A Molecular Approach to the Regeneration Process – *Ana Margarida Santos*, ITQB/IBET, Oeiras, Portugal**
- 11:10AM-11:30AM **Development of Platform Biotechnologies for Genetic Improvement of *Prunus spp.* – *A. Kalinina*, Department of Biology, University of Western Ontario, London, ON Canada**
- 11:30AM-11:50AM **Towards Identification, Isolation and Characterization of Disease Resistance Genes from Native North American Grape (*Vitis L.*) Species – *Jiang Lu*, Florida A&M University, Tallahassee, Florida**
- 11:50AM-12:10PM **Microarray Expression Profiling of Nagami Kumquat in Response to Canker – *Abeer Kalaf*, University of Florida, Gainesville, Florida**
- 12:10PM-1:30PM Lunch on Own

### **SIX CONCURRENT SESSIONS**

(Open forum discussions of the application of biotech approaches to improvement of the subject crops.)

#### **1:30PM-3:30PM APPLE SESSION**

Chairs: *Gennaro Fazio* and *Jay Norelli*

#### **1:30PM-3:30PM GRAPE SESSION**

Chairs: *Fernando Reyes* and *Dennis Gray*

#### **1:30PM-3:30PM PRUNUS SESSION**

Chairs: *Lining Tian* and *Humberto Prieto*

#### **1:30PM-3:30PM MISCELLANEOUS TROPICAL FRUITS SESSION**

Chairs: *Eva de Garcia* and *Fernando Pliego Alfaro*

## **Thursday, October 13** (continued)

### **1:30PM-3:30PM PAPAYA SESSION**

Chairs: *Mike Davis* and *Richard Manshardt*

### **1:30PM-3:30PM CITRUS SESSION**

Chairs: *Randy Niedz* and *Leandro Pena*

3:30PM-5:30PM **Formal Poster Session**

6:00PM-7:00PM Networking Reception

7:00PM-11:00PM **Dinner Banquet:**

**Open Sesame: Biological Open Source and a New Dynamic for Biotechnology in Society – *Richard Jefferson*, CAMBIA, Canberra, Australia**

## **Friday, October 14**

7:00AM-6:00PM Registration

7:00AM-8:30AM Morning Refreshments

7:00AM-12:00PM Posters on Display

### **8:30AM-12:00PM GENERAL SESSION 5 – RISK ASSESSMENT/MITIGATION AND ENABLING TECHNOLOGIES**

Chair: *Richard Litz*

8:30AM-9:15AM **Site-Specific Recombination for Plant Genetic Engineering – *David Ow*, USDA Gene Expression Center, Albany, California**

9:15AM-10:00AM **Recovery of Difficult-to-Regenerate Species: the Cycad Example – *Victor Chavez*, Instituto de Biologia, Universidad Nacional Autonoma de Mexico, Mexico City, Mexico**

10:00AM-12:00PM **Formal Poster Session**

12:00PM-1:30PM Lunch on Own

12:00PM-1:30PM Poster Display Removal

### **TWO CONCURRENT SESSIONS**

#### **1:30PM-2:30PM ENABLING TECHNOLOGIES**

Chairs: *Andres Cruz Hernandez* and *Dennis Gray*

1:30PM-1:50PM **Shortening of the Juvenile Period in Sweet Orange Plants by Transgenic Overexpression of the *APETALA1* Gene – *Leandro Peña*, Instituto Valenciano de Investigaciones Agrarias (IVIA), Valencia, Spain**

1:50PM-2:10PM **Screening Transgenic Grapevines for Pierce's Disease Resistance – *Dennis Gray*, University of Florida/IFAS, Apopka, Florida**

2:10PM-2:30PM **Clonal Regeneration of Litchi (*Litchi chinensis* Sonn.) via Somatic Embryogenesis – *Simon Raharjo*, University of Florida/IFAS, TREC, Homestead, Florida**

2:30PM-2:50PM Refreshment Break

**Friday, October 14** (continued)

**2:50PM-3:50PM** **ENABLING TECHNOLOGIES (CONTINUED)**

*Chairs: Philippe Druart and Carmine Damiano*

2:50PM-3:10PM **PPV-CP intron-hairpin-RNA (ihpRNA) Constructs Provide Resistance to *Plum pox virus* in Herbaceous and Woody Perennial Species – *Jean-Michel Hily*, USDA-ARS Appalachian Fruit Research Station, Kearneysville, West Virginia**

3:10PM-3:30PM **A mid-scale Platform for Genetic Transformation of Different Grapevine Varieties: Use of Thompson Seedless as a Model – *Fernando Reyes*, Instituto de Investigaciones Agropecuarias, Santiago, Chile**

3:30PM-3:50PM ***Vfa1* and *Vfa2* Genes Confer Resistance to *Venturia inaequalis* in Transgenic McIntosh Apple Plants – *Mickael Malnoy*, Cornell University, Geneva, New York**

**1:30PM-2:30PM** **GENOMICS - MOLECULAR BREEDING**

*Chairs: Ann Callahan and Margarida Oliveira*

1:30PM-1:50PM **Sequencing and Annotation of the Peach Evergrowing Locus from Wild-type and Mutant Genomes Reveals Several Candidate Genes for the Control of Terminal Bud Formation in Response to Dormancy Inducing Conditions – *Douglas Bielenberg*, Clemson University, Clemson, South Carolina**

1:50PM-2:10PM **Molecular Genetic Dissection of Chilling Injury in Peach Fruit – *Ebenezer Ogundiwin*, University of California, Davis, Parlier, California**

2:10PM-2:30PM **Isolation and Characterization of the 2S Albumin Gene and Promoter from Grapevine – *Zhijian Li*, University of Florida/IFAS – MFREC, Apopka, Florida**

2:30PM-2:50PM Refreshment Break

**2:50PM-3:50PM** **GENOMICS - MOLECULAR BREEDING (CONTINUED)**

*Chairs: Eva de Garcia and Sadanand Dhekney*

2:50PM-3:10PM **Biotechnology for Flower Development and Pigment Production in Marigold (*Tagetes erecta*) – *Andrés Cruz-Hernandez*, CINVESTAV-IPN, Unidad Irapuato, Guanajuato, México**

3:10PM-3:30PM **Flowering Time Analogues in *Musa* – *Carlos Giménez*, Universidad del Zulia, Zulia, Venezuela**

3:30PM-3:50PM **Production of Marker-Free Transgenic Citrus Plants Using Positive Selection and Removal by Site-Specific Recombination – *Alida Ballester*, Instituto Valenciano de Investigaciones Agrarias (IVIA), Valencia, Spain**

**3:50PM-5:00PM** **CLOSING SESSION**

5:00PM Symposium Concluded