

# **2012 Meeting of the Southern Section of the American Society of Plant Biologists**

## **Main Program**



**March 3 -5, 2012**

**Ocean Reef Resort**

**Myrtle Beach, South Carolina**

## **Saturday, March 3**

**4:30 P.M. - 6:30 P.M. Registration**

**5:00 P.M. - 8:00 P.M. Annual Mixer**

**5:00 P.M. - 8:00 P.M. Poster Set-Up**

**7:00 P.M. - 9:00 P.M. Executive Committee Meeting**

## **Sunday, March 4**

**7:00 A.M. - 8:15 A.M. Breakfast Buffet, Café du Port Restaurant, Ocean Reef Resort**

**8:15 A.M. Welcome - Rebecca Dickstein, Chair, SS - ASPB**

### **General Session 8:30 A.M. – 10:15 A.M.**

- 8:30 Soybean Somatic Embryos and Plastids as a Model System for Lipid Metabolism**  
Salvatore Sparace                      Clemson University
- 8:50 Transgenic Soybean Seeds as a Protein Expression System: Separating Production from Purification**  
Kenneth Bost                              University of North Carolina at Charlotte and SoyMeds, Inc.
- 9:10 Hotspots in Viral siRNA Accumulation in Maize**  
Vicki Vance                              University of South Carolina
- 9:30 Analysis of Aquaporin Gene Family in Cotton**  
Wonkeun Park                              Clemson University
- 9:50 N-Glycosylation Engineering of Tobacco Plants to Produce Asialoerythropoietin**  
Farooqahmed Kittur                      North Carolina Central University

### **Refreshment Break - 10:15 A.M. – 10:45 A.M.**

- 10:45 TLA1, A Novel Gene for the Regulation of the Chlorophyll Antenna Size in the Green Microalga *Chlamydomonas reinhardtii***  
Mautusi Mitra                              University of West Georgia



- 4:15 Physiological Responses of the Seagrass *Thalassia testudinum* Against the Causative Agent of Wasting Disease, *Labyrinthula sp.***  
Stacey Trevathan-Tackett      University of North Florida
- 4:30 Three *Arabidopsis* AIL/PLT Genes Act in Combination to Regulate Shoot Apical Meristem Function**  
Janaki Mudunkothge      University of South Carolina
- 4:45 The Utilization of a Genome-Scale Model to Explore Mutations that Increase Cellulose in *Arabidopsis thaliana***  
Jiun Yen      Virginia Polytechnic Institute and State University
- 5:00 Velvetbean: *de novo* transcriptome assembly**  
Elspeth Murday      Clemson University

**Graduate Student Oral Competition Session B. 2:00 P.M. – 5:15 P.M.**

- 2:00 Ethanol Prolongs Systemin, Flagellin, and Chitosan-Induced Activation of MAP Kinases in *Solanum peruvianum* cells.**  
Claire Hann      University of South Carolina
- 2:15 Comparative Proteomics of Recalcitrant Seed Death in *Spartina alterniflora***  
Yi Wang      Louisiana State University
- 2:30 Examining the Roles of PsToc75 POTRA Domains in Chloroplast Protein Import**  
Richard Simmerman      University of Tennessee
- 2:45 Analysis of Soybean Stem Characteristics to Maximize Biofuel Yield**  
Matthew Waalkes      Virginia Military Institute
- 3:00 Interacting Partners of the SUNN Symbiotic Regulatory Kinase**  
Ashley Crook      Clemson University

**Refreshment Break 3:15 P.M. – 3:45 P.M. (posters are open)**

- 3:45 Ectopic Expression of AINTEGUMENTA-LIKE 6 Affects Floral Organ Initiation and Identity**  
Han Han      University of South Carolina
- 4:00 Effects of Historical Land Use and Environmental Variation on Plant Community Structure and the Prevalence of Invasion in Weeks Bay, AL**  
Amanda Ecker      University of South Alabama
- 4:15 Seagrass Defenses: Elicitation of an Oxidative Burst in the Tropical Marine Angiosperm *Thalassia testudinum***  
Kyle Loucks      University of North Florida

- 4:30 N-Terminal Hsp70 Binding Site is a Major Determinant for Precursor Protein Translocation Into Chloroplasts**  
Prakitchai Chotewutmontri University of Tennessee
- 4:45 Long Distance Signaling: a Mechanism for Nodule Regulation in *Medicago truncatula***  
Tessema Kebede Kassaw Clemson University
- 5:00 Identification and Characterization of a MAP Kinase-Containing Complex**  
Carleton Bequette University of South Carolina

**Poster Session 1. 5:15 P.M – 7:30 P.M.**

**Undergraduate students – posters**

(\* - undergraduate poster competition entry)

**(Each student presenter should be at their poster from 5:15 - 6:30 P.M. for discussion and undergraduate competition judging)**

- P1\*.** **Employing Functional Genomics to Identify Novel Genes That Provide Photo-Protection to Plants in High Light Stress**  
Darryel Wilson University of West Georgia
- P2\*.** **Analyzing the Mechanism of Antibiotic Resistance with Atwbc19 through the Analysis of Protein-Protein Interaction**  
La'Mayah Hodges Spelman College
- P3\*.** **The Effects of NIP on Cellular Growth in *Arabidopsis thaliana* Leaves**  
Bailey Wattron University of North Texas
- P4\*.** **Selenate (SeO<sub>4</sub>) Induced the Up-Regulation of miRNA395 in *Arabidopsis thaliana***  
Patrick Vallentine Coastal Carolina University
- P5\*.** **The Effect of the Arabidopsis ABC Transporter Atwbc19 on Transcript Levels of Iron-Regulated Genes**  
Morayo Gloria Adebisi Spelman College
- P6\*.** **Genetic Mapping of a Novel MicroRNA Translational Regulation Mutant in Plants**  
Kala Peek, Caleb Kirkpatrick, and Cody Mullins Charleston Southern University
- P7\*.** **Confirmation of Mini-spidroin Expression in Transgenic Tobacco**  
Charlene Gravgaard Clemson University
- P8\*.** **Evaluation of Natural Pathogens of *Salvinia molesta* as Potential Agents of Biological Control.**  
Danielle Handrop Louisiana State University-Shreveport
- P9\*.** **Creation and Characterization of Transgenic Tobacco Plants Expressing Human Recombinant Erythropoietin**  
Mamudou Bah North Carolina Central University



**Banquet – 7:45 P.M.**

**Martin's Restaurant  
7200 N. Ocean Blvd, Myrtle Beach, SC  
Phone: 843.449.1368**

**Monday, March 5**

**7:00 A.M. - 8:15 A.M.      Breakfast Buffet, Café du Port Restaurant, Ocean Reef Resort**

**2012 Kriton – Hatzios Symposium**

**8:30    How Plants Sense Their Environment: the Role of Chloroplasts in the Perception of And Response To Environmental Stress**

Klaus Apel, Boyce Thompson Institute for Plant Research, Ithaca NY

**9:30    A Feeling for the Organelle: Multiple Roles for Mechanosensitive Channels in the Chloroplast Envelope**

Elizabeth Haswell, Washington University in St. Louis

**Refreshment Break 10:30 A.M. – 11:00 A.M.      (posters are open)**

**11:00   Chloroplast Genomics and Genetic Engineering**

Henry Daniell, University of Central Florida

**12:00 P.M.– 12:30 P.M.      General Business Meeting**

**12:30 P.M.    Meeting Adjourns**