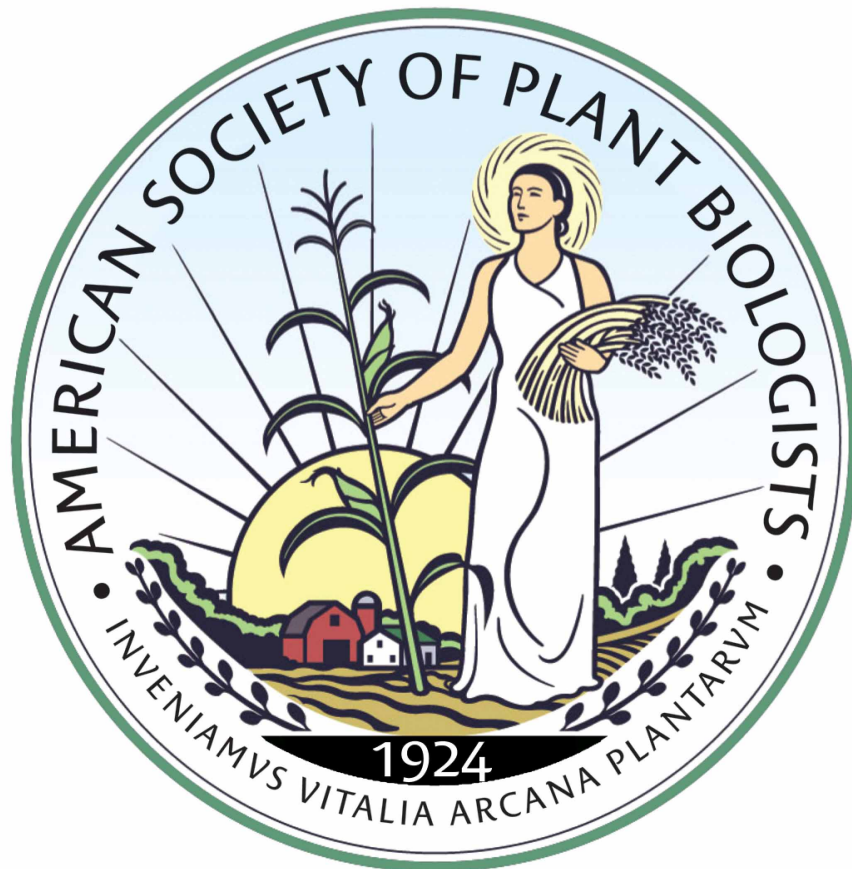


# 2011 Meeting of the Southern Section of the American Society of Plant Biologists



**April 9-11**  
**University of Southern Mississippi**  
**Gulf Coast Research Lab**  
**Ocean Springs, Mississippi**

**Saturday, April 9**

4:30-6:30 pm Registration

5:00-7:00 pm Annual Mixer

5:00-8:00 pm Poster Set-Up

7:00 -9:00 pm Executive Committee Meeting

**Sunday, April 10**

7:00-8:00 am Continental Breakfast

8:00 am Welcome- Paxton Payton, Chair Southern Section – ASPB

8:15- 9:00 am **General Session**

Phosphobinding Domain in Plants  
*David Chevalier*, Mississippi State University

Role of the E3 ubiquitin ligase SAP5 in plant stress responses  
*Randy Allen*, Oklahoma State University

Identification of selenium (Se) - responsive genes in the selenium-  
hyperaccumulator *Astragalus racemosus*  
*Jiahua Xie*, North Carolina State University

9:00-9:45 am **Graduate Student Oral competition I**

*Arabidopsis thaliana* calcium-dependent lipid-binding protein (AtCLB)  
negatively regulates abiotic stress response  
*Kanishka de Silva*, University of Arkansas

Neutral lipids accumulate in leaves of *Arabidopsis* mutants  
*Christopher N. James*, University of North Texas

Direct visualization of lipid molecules in cotton embryos by matrix-  
assisted laser desorption ionization mass spectrometry  
*Patrick Horn*, University of North Texas

9:45-10:15am **Refreshment Break I**

10:15-11:45 am

**Graduate Student Oral competition II**

Comparative proteomics of recalcitrant seed death in *Spartina alterniflora*

*Yi Wang*, Louisiana State University Agricultural Center

Development of Molecular Markers in Safflower

*Zach B. Hinds*, Texas Tech University and USDA Cropping Systems Research Laboratory

Identification of effector proteins of histone lysine methylation in plants

*Udhghatri Kolli*, Mississippi State University

Identification of genes associated with cotton fiber development in a chromosome substitution line CS-B25

*Samuel Bandi*, Mississippi State University

Proteomic analysis of phosphoproteins involved in abscisic acid signaling in *Arabidopsis*

*Jiaxu Li*, Mississippi State University

Proteomic analysis of phosphoproteins involved in abscisic acid signaling in *Arabidopsis*

*Jie Song*, Mississippi State University

11:45 am-2:00 pm

**Lunch**

2-3:30 pm

**Graduate Student Oral competition III**

Expression and purification of recombinant tung tree diacylglycerol acyltransferase 2

*O. D. Howard*, Alcorn State University

Identification of Genotypes and Traits Associated with Hydrolysis Yield Variability in *Sorghum bicolor*

*Joshua Vandenbrink*, Clemson University

Enhancing Cotton Fiber Elongation and Cellulose Synthesis by Manipulating Fructokinase Activity.

*Thiya Mukherjee*, Texas Tech University

The impacts of nitrogen utilization and allocation strategies on photosynthesis for an invasive grass, *Phalaris arundinacea*, in comparison to the native sedge, *Carex stricta*.

*Hasitha Guvvala*, Texas Tech University

Photosynthetic response of invasive grass, *Phalaris arundinacea*, and native sedge *Carex stricta* that it replaces to climate change and nitrogen availability

*Elizabeth Waring*, Texas Tech University

Over-expression and antisense suppression of a gene encoding a heat shock factor binding protein in *Arabidopsis* affect the photosynthetic tolerance to heat stress

*Yuanhua Wang*, Texas Tech University

3:30-3:45 pm **Undergraduate Student Oral competition**

*Medicago truncatula* NIP affects lignin and callose deposition and regulation of genes important for secondary metabolism and fungal defense

*Clifford Sandlin*, University of North Texas

3:45-5:00 pm

**Poster Session (\* = Undergraduate poster competition)**

**P1** Understanding division plane orientation in plant cells

*Amanda J. Wright*, University of North Texas

**P2** Identifying Proteins that Interact with DCD1, a PP2A Phosphatase Regulatory Subunit Needed for Cell Division Plane Orientation in Maize

*Awa L. N'diaye*, University of North Texas

**P3** Identification of N-acylethanolamine Resistant(NRA) Mutants in *Arabidopsis thaliana*

*Bikash Adhikari*, University of North Texas

**P4** Is calcium a key player in interaction of FASS/TONNEAU2 and its other proteins in *Arabidopsis thaliana*?

*Oladapo Oremade*, University of North Texas

**P5** Toward the identification and functional characterization of a second fatty acid amide hydrolase (FAAH) in *Arabidopsis*

*Faure Lionel*, University of North Texas

**P6** Metabolism and Action of Polyunsaturated N-Acylethanolamines (NAEs)

*Jantana Keereetaweep*, University of North Texas

**P7** Immunohistochemical Investigation of Cotton Carpel Tissue Exposed to Xylanolytic Hydrolases of *Aspergillus flavus*

*Jay E. Mellon*, USDA, ARS, SRRC, New Orleans, LA

**P8** Engineering and expression of a lipid-inducible, self-regulating lipase in *Saccharomyces cerevisiae*. Implications for bioconversion of commodity vegetable oils to novel value-added products.

*Jay Shockey*, USDA-ARS, SRRC. New Orleans, LA

**P9** Low co-cultivation temperature at 20°C improved *Agrobacterium tumefaciens*-mediated transformation of tobacco leaf disks

*Norimoto Murai*, Louisiana State University and LSU Agricultural Center

**P10** Smaller higher-yielding binary Ti Vectors pLSU with co-directional replicons for *Agrobacterium tumefaciens*-mediated transformation of higher plants

*Seokhyun Lee*, Louisiana State University and LSU Agricultural Center

**P11** Phenotypical and genetic characterization of tomato lines expressing *Arabidopsis* truncated ERECTA gene ( $\Delta$  kinase)

*Hector Villagarcia*, University of Arkansas at Little Rock

**P12** Vicilin Derived Plant Defense Proteins

*Nibedita Saha*, The University of Louisiana at Lafayette

**P13\*** Stress Tolerance and Galactinol Synthase in *Verbascum phoeniceum*  
*Katie Sieck and Laura Vaughn*, North Georgia College and State University

**P14\*** A Comparison of Nitrogen Allocation Strategies for the Invasive Wetland Grass, *Phalaris arundinacea*, and the Native Sedge, *Carex stricta*  
*Milo Lewis*, Texas Tech University

6:30 pm

**Banquet**

**Monday, April 11**

7:00-8:00 am Continental Breakfast

**2011 Kriton-Hatzios Symposium**

- 8:15 am                    Photosynthesis, Photoprotection, and the Environment.  
*Barbara Demmig-Adams* Dept. Ecology and  
Evolutionary Biology, University Colorado, Boulder
- 9:15 am                    Root Growth under Water Deficits: Physiological Complexity and  
Coordination.  
*Robert E. Sharp* Dept. of Plant Sciences, University of Missouri.
- 10:15-10:35 am        **Refreshment break**
- 10:45 am                    Systems Approaches for Improving Crop Abiotic Stress Tolerance.  
*Paxton Payton* USDA ARS Cropping Systems Research Lab Lubbock  
Texas
- 11:45-12:15 pm        General Business Meeting
- 12:15 pm                   Meeting Adjourns