North East American Society of Plant Biologists

87th Annual Meeting 2024

April 20th -21st, 2024

VENUE:
148 Stocking Hall / Conference Center
Cornell University, 411 Tower Rd
Ithaca, NY 14853
Program Outline

Saturday, April 20, 2024

10:30am  Registration open at 148 Stocking Hall / Conference Center

12:00pm  Welcome and Introductions (Miguel Pineros and Georg Jander)

12:10pm  Doreen Ware
          Keynote Speaker: Plant Genomes: understanding their past and managing their future

1:00pm   Shuyao Kong
          Tradeoff Between Speed and Robustness in Primordium Initiation Mediated by Auxin-CUC1 Interaction

1:15pm   Maria Babar
          Exploring Graft Incompatibility Markers in Tomato (Solanum lycopersicum L.)

1:30pm   Lauren Cole-Osborn
          The CaMV 35S Promoter Can Activate Heterologous Promoters Even on Separate Co-Expressed Plasmids, Introducing Potential Artifacts into Reporter Assays in Plants

1:45pm   Erin Rehnig
          ASPB Ambassador presentation (Erin Rehnig, erehrig@fitchburgstate.edu)

2:00 – 2:30 pm Coffee break - BINGO – Networking
(Audrey Fahey, fahey@cshl.edu and Janeen Braynen, braynen@cshl.edu)
2:30pm  **Yogita Singh**  
CRISPR-Cas9 Editing of Silicon/Arsenic Transporter Genes to Reduce Arsenic Contents in Rice to Ensure Food Safety

2:45pm  **Yang Liu**  
Deciphering the Role of Redox-Responsive and Calcium-Binding Proteins BAP on Plant Immunity and Chilling Tolerance

3:00pm  **Serena Fan**  
Unravelling the Interplay within ASAP complex’s Role in RNA Regulations in *Arabidopsis thaliana*

3:15pm  **Sombir Rao**  
The moonlighting function of a Nudix domain-containing protein in carotenoid biosynthesis and metabolon assembly

3:30pm  **Seren Villwock**  
Carotenoid-carbohydrate crosstalk: evidence for genetic and physiological interactions in storage tissues across crop species

3:45pm  **Harper Lowrey**  
CFH1 Conservation Sheds Light on Functionally Essential Amino Acids

4:00 pm  **Josephine LoRicco**  
Electron Tomography of Streptophyte Algae: Insights into the Subcellular Components that were Critical for Terrestrialization and Land Plant Evolution

4:15pm  **Klaas van Wijk**  
Organization and functions of the intra-chloroplast proteolysis network and discovery of the chloroplast N-degron pathway

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**POSTER SESSION**

4:30pm – 5:30pm ODD NUMBERS  
5:30pm – 6:30pm EVEN NUMBERS

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**DINNER**  
6:30pm – 8:30pm
**Sunday, April 21, 2024**

9:00am  **Ed Buckler**  
Keynote Speaker

9:50am  **Leeann Thornton** (ASPB, President-elect)

10:00am  **Ju-Chen Chia**  
The role of Arabidopsis Oligopeptide Transporter 3 (AtOPT3) in shoot-to-root copper signaling and copper-iron crosstalk

10:15am  **Simon Malcomber**  
NSF deputy assistant director

**10:30 – 11:00 am Coffee Break**

11:00am  **Boaz Negin**  
Catechol acetylglucose: A novel benzoxazinoid-regulated defensive metabolite in maize

11:15am  **Gabriella Ballestas**  
Development of Molecular Markers for Discrimination Between *Cynanchum wilfordii* and Its Close Relatives

11:30am  **Greg Gregory**  
Determining the Diurnal Cues Regulating CELLULOSE SYNTHASE A8 Expression in *Brachypodium distachyon*

11:45am  **Bahman Khahani**  
A Gene Regulatory Network for Secondary Wall Biosynthesis in the Leaf Nodal Roots of *Brachypodium distachyon*

12:00pm  **Shiqi Zhang**  
Quantitative imaging of Pi using FRET sensors in *B. distachyon* roots reveals diverse Pi distribution and fluctuation during AM symbiosis

12:15pm  **Subhash Minocha**  
NE-ASBP secretary/treasurer report, awards

**12:30pm  Tours of Cornell facilities**  
Cornell High Energy Synchrotron Source (CHESS), Boyce Thompson Institute automated phenotyping facility, or Botanic Garden