

2022 MAS-ASPB and UMD Plant Symposium Agenda

Day One: Wednesday (May 25, 2022)	
8:00 – 9:00 am	Registration
9:00 – 9:05 am	Welcome remark by Puneet Srivastava, Associate Dean for Research at College of Agriculture and Natural Resources, University of Maryland
9:05 – 9:10 am	Keynote speaker introduction by Jose Feijo
9:10 – 10:00 am	Keynote address – Dr. Ueli Grossniklaus (Zurich University)
<i>Conservation of the CrRLK1L pathways during land plant evolution</i>	

10:00 – 10:15

Coffee Break, Set up presentations for Session I

10:15 – 12:00 pm	Session I: Plant Genetics and Genomics (session chair: Vijay Tiwari)
10:15 – 10:40 am	Carole Huang (New York University)
<i>Double DAP-seq reveals novel motifs and regulatory rules for bZIP dimers</i>	
10:40 – 11:05 am	Nicholas Santantonio (Virginia Tech)
<i>Deployment of genome-enabled decision making in a traditional small grains breeding program</i>	
11:05 – 11:30 am	Surinder Chopra (Pennsylvania State University)

<i>Function of Mysterious Maize Ufo1 in Seed & Stress</i>	
11:30 – 11:40 am	Deisiany Ferreira Neres (Virginia Tech)
<i>Phylogenetic and expression analysis of auxin regulatory genes in soybean (Glycine max)</i>	
11:40 – 11:50 am	Gautam Saripalli (University of Maryland)
<i>Genetic Dissection of Triticum mononocum for Important Agronomic and Domestication Traits</i>	
11:50 – 12:00 pm	Ian Moot (University of Maryland)
<i>Full Nullification of 'tin3' in Winter Wheat</i>	

12:00 – 1:30 pm Lunch, Networking, and Poster Session

1:30 – 2:50 pm	Session II: Plant Growth and Development (session chair: Zhongchi Liu)
1:30 – 1:55 pm	Juan Dong (Rutgers University)
<i>Switching on or off: signaling control in stomatal development.</i>	
1:55 – 2:20 pm	Jung-Youn Lee (University of Delaware)
<i>A long and hard road to finding the plasmodesmal targeting signal</i>	
2:20 – 2:35 pm	Daniel Cosgrove (Pennsylvania State University)
<i>Mechanobiology: What are the load-bearing polymers in primary cell walls?</i>	

2:35 – 2:45 pm	Xiao-Ning Zhang (St. Bonaventure University)
<i>The Effects of A Splicing Regulator, Serine/Arginine-rich 45, on Arabidopsis thaliana Sperm Transcriptome</i>	
2:45 – 2:55 pm	Lei Guo (University of Maryland)
Mechanism of Fertilization-Induced Auxin Biosynthesis in Strawberry Seed and Fruit Development	

2:55 – 3:25 pm Coffee Break, Set up presentations for Session III

3:25 – 4:45 pm	Session III: Plant Molecular and Cell Biology (session chair: Juan Dong)
3:25 – 3:50 pm	Aman Husbans (University of Pennsylvania)
<i>HD-ZIPIII transcription factors are controlled by deeply conserved START domains</i>	
3:50 – 4:15 pm	Caren Chang (University of Maryland)
<i>The ethylene precursor ACC: a novel plant signal?</i>	
4:15 – 4:25 pm	Kenan Ozcan (James Madison University)
<i>A dual-function gene in Zea mays that encodes two β-amylase proteins with different cellular locations and functions</i>	
4:25 – 4:35 pm	Fuxi Wang (University of Maryland)
<i>Mechanism of DREAM Component TSO1 in Plant Meristem Regulation</i>	
4:35 – 4:45 pm	Ha Eun Jeh (Pennsylvania State University)

Sensory plastid-associated PPD3 triggers plant growth- and defense-related epigenetic responses

4:45 – 6:30 pm

Poster Session, Networking, and Workshop

5:00 – 6:30 pm

Career Development Workshop (convener: Hong Ma)

Panelists: Aman Husbands (Assistant P. UPenn), Melissa Garcia (Scientist at Inari Agriculture), Daniel Rodriguez Leal (Scientist at Syngenta), Deisiany Ferreira Neres, ASPB Ambassador and PhD student at Virginia Tech)

7:00 – 9:00 pm
attendees

Reception/dinner at The Hall CP for conference

4656 Hotel Dr, College Park, MD 20742

Day Two: Thursday (May 26, 2022)

9:00 – 10:20 am	Session IV: Plant Evolution and Ecology (session chair: Emily Bruns)
9:00 – 9:25 am	Liana Burghart (Pennsylvania State University)
<i>Evolving Together, Evolving Apart: Measuring the fitness of rhizobial bacteria in and out of symbiosis with leguminous plants</i>	
9:25 – 9:50 am	Corlette Wood (University of Pennsylvania)
<i>Why do mutualistic microbes increase susceptibility to parasites?</i>	
9:50 – 10:00 am	Samuel Slowinski (University of Maryland)
<i>Fitness costs associated with age-specific resistance to a sterilizing disease</i>	

10:00 – 10:30 am Coffee Break, Set up presentations for Session V

10:30 – 12:00pm	Session V: Plant Interaction with Environment (session chair: Hua Lu)
10:30 – 10:55 am	Nidhi Rawat (University of Maryland)
<i>Investigation of the resistance provided by a wheat pore-forming toxin-like protein against fungal pathogens</i>	
10:55 – 11:20 am	Oliver Baars (North Carolina State University)
<i>An old story revisited: iron-induced metabolite secretion and rhizosphere interactions</i>	

11:20 – 11:30 am	Maria Cervasio (University of Maryland-Baltimore County)
<i>Elucidating the Role of Flowering Locus KH Domain FLK in Abiotic Stress Response in Arabidopsis thaliana</i>	
11:30 – 11:40 am	Madhu Kappagantu (University of Maryland)
<i>Age: it's just not a number; an added benefit of mature plant resistance in older plants</i>	
11:40 – 11:50 am	William Sexton (University of Maryland)
<i>Characterization of the Role of an ESCRT-Interacting Deubiquitinase (AMSH1) in Arabidopsis Nonhost Resistance Against Powdery Mildew Fungi</i>	
11:50 – 12:00 pm	Collin Hudzik (Pennsylvania State University)
<i>Interface-induced miRNAs produced by Cuscuta campestris all share the same promoter element and do not require a host signal for detection</i>	

12:00 – 2:00 pm Lunch, Poster Session, and Workshop

1:00 – 2:00 pm	Grant Development Workshop (convener: Shunyuan Xiao)
Panelists: Rubella Goswami (USDA), Drs. Courtney Jahn (NSF and Colorado State U.), Jeff Rosichan (FFAR)	

2:00 – 2:20 pm Break, Set up presentations for Session VI

2:20 – 3:55 pm	Session VI: Plant Biotechnology and New Tools (session chair: Deisiany Ferreira Neres)
2:20 – 2:45 pm	Changtian Pan (University of Maryland)
<i>Boosting plant genome editing with a versatile CRISPR-Combo system</i>	
2:45 – 3:10 pm	Rachel Shahan (Duke University)
<i>Exploring Development at Single Cell Resolution</i>	
3:10 – 3:35 pm	Leonie Steinhorst (Westfälische Wilhelms-Universität Münster)
<i>A Ca²⁺ sensor switch for tolerance to elevated salt stress in Arabidopsis</i>	
3:35 – 3:45 pm	David Samson (Pennsylvania State University)
<i>Fungal Luciferin Production from a Remnant-Free Plant Polyprotein</i>	
3:45 – 3:55 pm	Natalie Thompson (Pennsylvania State University)
<i>Development and Optimization of Intron Containing Reporter Genes</i>	

4:00 – 4:20 pm **Poster Awards, Oral Presentation Awards, and Closing Remarks**

4:20 – 4:30 pm **Poster Take-down and Departure**