



## Scientific Program

### Monday October 20

09:00-18:30	Registration & Welcome
18:30-19:15	<b>Siobhan M. Brady</b> (UC Davis) Environmental Integration with Root Cell Type Development

### Tuesday October 21

#### Abiotic stress and Genetics & Genomics

Chair

09:00 - 09:45	<b>Alejandra Covarrubias</b> (IBT-UNAM) Dry Times, Tough Proteins: Roles of LEA proteins in plant responses to water scarcity
09:45 - 10:15	<b>Minerva Trejo</b> (Institute of Science and Technology, Austria) A brief history of DNA methylation systems in Eukaryotes
10:15 - 10:45	<b>Ken Birnbaum</b> (New York University) One Call, Many Responses: Decoding Auxin's Cell-Specific Language
10:45 - 11:15	<b>Damien Formey</b> (CCG-UNAM) Phabase: A High-Quality Genome Assembly and Platform for <i>Phaseolus vulgaris</i> cv. Negro Jamapa
11:15 - 11:45	Coffee break
11:45 - 12:15	<b>Dan Chitwood</b> (Michigan State University) Iconography and Indigenous Knowledge in the De la Cruz-Badiano Nahuatl Herbal (1552): A Text Mining and Morphometric Study of Mexican Plants
12:15 - 12:45	<b>Azalea Guerra</b> (Cinvestav) Genetic Diversity of Orphan Crops and Wild Relatives: A Foundation for Resilient Agroecosystems
12:45 - 13:15	<b>Zachary Lippman</b> (Cold Spring Harbor Labs) Hidden genetic complexities and phenotypic consequences of evolving plant stem cell networks in nature and agriculture
13:15 - 14:45	Lunch
14:45 - 16:15	Short talks
16:15-16:45	Flash talks
16:45-17:15	Coffee break
17:15-18:30	Poster session
18:30-19:15	<b>Sue Rhee</b> (Michigan State University)

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Mérida, Yucatán (20-24 September 2025)

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**Wednesday October 22**

Plant-biotic interactions and Metabolism

Chair

	The EMBO Lecture
09:00 - 09:45	<b>Cyril Zipfel</b> (Universitat Zurich) Roles and recognition of stress-regulated secreted signaling peptides
09:45 - 10:15	<b>Jeongmin Choi</b> (University of Cambridge) Identification of a suppressor of arbuscular mycorrhizal symbiosis in high phosphate conditions
10:15 - 10:45	<b>Jean Michel Ané</b> (University of Wisconsin) Biological Nitrogen Fixation on the Aerial Roots of Maize and Sorghum for Sustainable Agriculture
10:45 - 11:15	<b>Clelia de la Peña Seaman</b> (CICY) Integrative study of <i>in vitro</i> albinism in <i>Agave angustifolia</i> : Transcriptomic, Epigenetic, and Metabolomic evidence
11:15 - 11:45	Coffee break
11:45 - 12:15	<b>Robertas Ursache</b> (CRAG) GELP proteins as architects of essential plant biopolymers
12:15 - 12:45	<b>Samuel Zeeman</b> (ETH Zürich) Beyond Simple Storage: Revealing the Cellular Machinery and Processes Underpinning Starch Granule Biosynthesis
12:45 - 13:15	<b>Barkeley Walker</b> (Michigan State University) Photorespiration as a crossroads between photosynthesis, metabolism, and leaf energetics
13:15 - 14:45	Lunch
14:45 - 16:15	Short talks
16:15-16:45	Flash talks
16:45-17:15	Coffee break
17:15-18:30	Poster session
18:30-19:15	<b>Marisa Otegui</b> (University of Wisconsin Madison) Membrane remodeling by ESCRT proteins in plant cells

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**Thursday October 23**

Development and Evolution

Chair

09:00 - 09:45	<b>Alfredo Cruz</b> (Cinvestav) Exploring the AINTEGUMENTA/PLETHORA–Auxin Feedback Loop: Insights from an EvoDevo Perspective on Stem Cell Niche Regulation
09:45 - 10:15	<b>Bob VanBuren</b> (Michigan State University) 21st SMB Plant Biology Congress & 4 <sup>th</sup> ASPB Mexico Section Meeting

Mérida, Yucatán (20-24 September 2025)

	Leveraging evolutionary innovations in grasses to develop climate resilient agriculture
10:15 - 10:45	<b>Moisés Expósito-Alonso</b> (UC Berkeley) Rapid adaptation and extinction across climates in synchronized outdoor evolution experiments of <i>Arabidopsis thaliana</i>
10:45 - 11:15	<b>Ana Caicedo</b> (U Mass Amherst) Converging on competitiveness: the repeated evolution of seed shattering in weedy rice
11:15 - 11:45	Coffee break
11:45 - 12:15	<b>Tzvetanka Dimitrova Dinkova</b> (Facultad de Química, UNAM) microRNA regulatory roles during de-differentiation and differentiation in maize Somatic Embryogenesis
12:15 - 12:45	<b>Paul Jarvis</b> (Oxford University) Protein import into chloroplasts and its regulation by the ubiquitin-proteasome system
12:45 - 13:15	<b>Zhiyong Wang</b> (Carnegie Institution for Science) The crosstalk between sugar and brassinosteroid regulates plant growth and acclimation
13:15 - 14:45	Lunch
14:45 - 16:15	Short talks
16:15-16:45	Flash talks
16:45-17:15	Coffee break
17:15-18:30	Business meetings
18:30-19:15	<b>Keiko Torii</b> (University of Texas) <i>Title</i>
20:30-23:30	Final Banquet

### Friday October 24

08:30-09:15	Departure
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