2021 63rd Annual Maize Genetics Meeting Schedule

All times listed are in CST.

Wednesday March 3rd Pre-conference events

3:00 PM - 4:00 PM <u>Maize Genetics Meeting MaGNET Networking Event</u>

Monday March 8th 9:00 AM - 8:00 PM CST

9:00 AM - 9:30 AM	Welcome and announcements
9:30 AM - 10:50 AM	<u>Session I: Genome Biology</u> Chair: Erin Sparks
9:30 AM - 9:50 AM	(T1) Antoine Allier, Université Paris-Saclay Genetic diversity management and introduction in maize breeding programs using genomic selection
9:50 AM - 10:10 AM	(T2) Alex Bousios, University of Sussex Gene capture by transposable elements leads to epigenetic conflict in maize
10:10 AM - 10:30 AM	(T3) Jing Li, Iowa State University Annotating and characterizing the orphan genes of Zea mays B73 and NAM lines
10:30 AM - 10:50 AM	(T4) Kelly Dawe, University of Georgia De novo assembly, annotation, and comparative analysis of 26 diverse maize genomes
10:50 AM - 11:00 AM	Break
11:00 AM - 12:00 PM	<u>Session II: Plenary Speaker</u> Chair: Marna Yandeau-Nelson
11:00 AM - 12:00 PM	Frank Hochholdinger, University of Bonn Genetic dissection of maize root development
12:00 PM - 12:30 PM	<u>Student conversation with Dr. Hochholdinger (attendance is limited, sign up in meeting platform required)</u>
12:00 PM – 5:00 PM	Socializing, networking, and open poster viewing

Monday March 8th (continued)

5:00 PM - 8:00 PM	<u>Session III: Maize & the Environment I</u> Chair: Madelaine Bartlett
5:00 PM - 5:20 PM	(T5) Laura Tibbs Cortes, Iowa State University Identifying Environmental and Genetic Factors Underlying Phenotype in the Maize NAM Population
5:20 PM - 5:40 PM	(T6) Johannes Scharwies, Stanford University Diversity of moisture regulated root branching uncovered in maize
5:40 PM - 6:00 PM	(T7) Marcin Grzybowski, University of Nebraska-Lincoln Genetic architecture of nonphotochemical quenching (NPQ) kinetics in maize
6:00 PM - 6:40 PM	Fostering Diversity in the Maize Research Community (T8) Beronda Montgomery, Michigan State University Planting Equity – Lessons from plants on cultivating equitable ecosystems
6:40 PM - 7:00 PM	(T9) Rubén Rellán-Álvarez, North Carolina State University Teosinte introgression modulates phosphatidylcholine levels and induces early maize flowering time
7:00 PM – 8:00 PM	Poster session
8:00 PM	Socializing, networking, and open poster viewing

Tuesday March 9th 9:00 AM-8:00 PM CST

9:00 AM - 9:10 AM	Welcome and announcements
9:10 AM - 10:50 AM	<u>Session IV: Regulating Genes and Genomes</u> Chair: Maud Tenaillon
9:10 AM – 9:30 AM	(T10) Thomas Hartwig, Heinrich Heine University FIND-CIS: High-resolution mapping of functional cis-elements in the maize drought response
9:30 AM - 9:50 AM	(T11) Maria-Angelica Sanclemente, University of Florida- Gainesville Sugar Modulation of Anaerobic-Response Networks in Maize Root Tips
9:50 AM – 10:10 AM	(T12) Zhaobin Dong, University of California-Berkeley The tasselsheath4 gene establishes developmental fields within floral phytomers via microRNA mediated mutual repression
10:10 AM - 10:30 AM	(T13) Maud Fagny, Université Paris-Saclay Identifying key tissue-specific, biological processes by integrating enhancer information in maize gene regulatory networks
10:30 AM - 10:50 AM	(T14) Zongliang Chen, Waksman Institute Structural variation at the maize wuschel1 locus alters stem cell organization in inflorescences
10:50 AM - 11:00 AM	<u>Break</u>
11:00 AM - 12:00 PM	Poster session
12:00 PM - 1:00 PM	<u>Opportunity to remember Drs. Don Auger and Nick Lauter with family in Gather.Town networking space</u> (link available in meeting platform)
12:00 PM – 5:00 PM	Socializing, networking, and open poster viewing

Tuesday March 9th (continued)

5:00 PM - 7:00 PM	<u>Session V: Emerging Tools & Applied Research I</u> Chair: Todd Jones
5:00 PM - 5:20 PM	(T15) Yan Zhou, Iowa State University Identification of genetic determinants of trait measurement errors in image-based, high-throughput phenotyping
5:20 PM - 5:40 PM	(T16) Sagnik Banerjee, Iowa State University Constructing Zea mays genes from RNA-Seq expression data using FINDER - a fully automated gene annotator
5:40 PM - 6:00 PM	(T17) Daniel Runcie, University of California-Davis A statistical model for genomic predictions of high-dimensional traits
6:00 PM - 6:20 PM	(T18) Anju Giri, Cornell University Haplotype Associated RNA Expression (HARE) improves prediction of complex traits in maize
6:20 PM - 6:40 PM	(T19) Apurba Anirban, University of Queensland Investigating anthocyanin and sugar development in purple pericarp sweetcorn
6:40 PM - 7:00 PM	Break
7:00 PM - 8:00 PM	<u>Session VI: Plenary Speaker</u> Chair: Erin Sparks
7:00 PM - 8:00 PM	Bin Han, Chinese Academy of Sciences A quantitative genomics study on rice heterosis
8:00 PM – 8:30 PM	<u>Student conversation with Dr. Han (attendance is limited, sign up in meeting platform required)</u>
8:00 PM	Socializing, networking, and open poster viewing

Wednesday March 10th 9:00 AM-8:00 PM CST

9:00 AM - 10:00 AM	<u>Session VII: McClintock Prize Presentation</u> Chair: Jeff Ross-Ibarra
9:00 AM – 9:10 AM	Jeff Ross-Ibarra, UC Davis <i>McClintock Prize introduction</i>
9:10 AM - 10:00 AM	John Doebley, University of Wisconsin-Madison Barbara McClintock and the Genetic Foundation for Understanding Maize Domestication
10:00 AM – 10:15 AM	Break
10:15 AM - 12:15 PM	<u>Session VIII: Emerging Tools & Applied Research II</u> Chair: Marna Yandeau-Nelson
10:15 AM - 10:35 AM	(T20) Thomas Widiez, University of Lyon (INRAE) Haploid induction requires targeting of NOT-LIKE-DAD to pollen endo- plasma membrane by lipid anchoring and electrostatic interactions
10:35 AM - 10:55 AM	(T21) Simon Rio, Université Paris-Saclay Can admixed individuals help to study the differences in allele effects between maize heterotic groups?
10:55 AM - 11:15 AM	(T22) Nathaniel Korth, University of Nebraska-Lincoln <i>Do the major changes in seed proteins in quality protein popcorn</i> <i>influence growth of beneficial, health-promoting bacteria in the human</i> <i>gut?</i>
11:15 AM - 12:15 PM	Poster session
12:15 PM - 1:15 PM	Career Networking Session
12:15 PM – 5:00 PM	Socializing, networking, and open poster viewing

Wednesday March 10th (continued)

5:00 PM - 7:00 PM	<u>Session IX: Cellular Processes</u> Chair: Clint Whipple
5:00 PM - 5:20 PM	(T23) CJ Rachel Wang, Academia Sinica, Taipei Taiwan Super-resolution expansion microscopy (ExM) reveals the nature of critical recombination intermediates during meiosis
5:20 PM - 5:40 PM	(T24) Xinxin Ding, University of Wisconsin-Madison Microautophagy of storage proteins in maize aleurone cells
5:40 PM - 6:00 PM	(T25) Tyler McCubbin, University of Missouri-Columbia <i>The COBRA-like gene BK2L3 affects cellulose deposition and sucrose</i> <i>export from source leaves</i>
6:00 PM - 6:20 PM	(T26) Joseph Gallagher, University of Massachusetts-Amherst Duplicate transcription factor genes GT1 and VRS1 repeatedly evolve roles in growth repression
6:20 PM - 6:50 PM	Award Presentations
6:50 PM - 7:00 PM	Break
7:00 PM - 8:00 PM	<u>Session X: Plenary Speaker</u> Chair: Madelaine Bartlett
7:00 PM - 8:00 PM	Sarah Hake, UC Berkeley Organogenesis in maize - lessons from mutants
8:00 PM – 8:30 PM	<u>Student conversation with Dr. Hake (attendance is limited, sign up in meeting platform required)</u>
8:00 PM	Socializing, networking, and open poster viewing

Thursday March 11th 9:00 AM-7:00 PM CST

9:00 AM - 10:00 AM	<u>Session XI: Plenary Speaker</u> Chair: Matt Hufford
9:00 AM – 10:00 AM	Giles Oldroyd, University of Cambridge Transforming agricultural sustainability through beneficial microbial associations
10:00 AM -10:30 AM	<u>Student conversation with Dr. Oldroyd (attendance is limited, sign up in meeting platform required)</u>
10:00 AM - 10:30 AM	<u>Break</u>
10:30 AM - 12:00 PM	Maize Community Meeting (all attendees encouraged to attend)
12:00 PM – 5:00 PM	Socializing, networking, and open poster viewing
5:00 PM - 7:00 PM	<u>Session XII: McClintock Prize Presentation</u> Chair: David Braun
5:00 PM - 5:10 PM	David Braun, University of Missouri McClintock Prize introduction
5:10 PM - 6:00 PM	Jim Birchler, University of Missouri The Gene Balance Hypothesis: How gene stoichiometries affect expression, the phenotype and evolutionary processes
6:00 PM - 7:00 PM	Poster session
7:00 PM	Socializing, networking, and open poster viewing

Friday March 12th 9:00 AM-1:00 PM CST

9:00 AM – 9:10 AM	Welcome and announcements
9:10 AM - 10:30 AM	<u>Session XIII: Maize & the Environment II</u> Chair: Hilde Nelissen
9:10 AM – 9:30 AM	(T27) Peng Yu, University of Bonn Genetic Control and Environmental Regulation of Root-Microbiome Interaction in Maize
9:30 AM – 9:50 AM	(T28) Mihai Miclaus, National Institute for Biological Sciences, Cluj-Napoca, Romania <i>Cytolines as models to study the impact of different cytoplasms on gene</i> <i>expression under heat stress conditions</i>
9:50 AM – 10:10 AM	(T29) Giulia Castorina, University of Milan, Italy <i>The drought-responsive ZmFDL1/MYB94 transcription factor regulates</i> <i>cuticle biosynthesis</i>
10:10 AM – 10:30 AM	(T30) Elly Poretsky, University of California-San Diego Uncovering the Genetic Basis of Maize Sensitivity to Herbivore-Associated Molecular Patterns
10:30 AM – 10:50 AM	Break
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