

2020 Virtual Maize Meeting Schedule

All times listed are in EDT.


Thursday June 25 1:00 PM - 6:30 PM EDT

1:00 PM - 1:15 PM Opening remarks/announcements

1:15 PM - 1:15 PM **Session I: Developmental Regulation**
Chair: Erin Sparks

1:15 PM - 1:30 PM **(T1) Yanfang Du** 
*Gene Duplications at the Fascicled ear1 (Fas1) Locus Affect Adaxial-
Abaxial Cell Fate in Maize Inflorescence Meristems*

1:30 PM - 1:45 PM **(T2) Adam Bray**
*The classic maize mutant Rootless1 is a bHLH transcription factor that
modulates crown root number in the field*

1:45 PM - 2:00 PM **(T3) Nick Lauter** 
*Cloning and transcriptomic characterization of macrohairless1, a
regulator of specialized cell fate commitment in the maize epidermis*

2:00 PM - 2:15 PM **(T4) Norman Best** 
*The lateral suppressor1 gene encodes a GRAS transcription factor
required for axillary meristem development in maize.*

2:15 PM - 2:30 PM **(T5) James Satterlee**
*Single-cell transcriptomic analysis of maize shoot apical meristem
organization and cell differentiation*

2:30 PM - 2:45 PM **(T6) Britney Moss** 
Maize Auxin Response Circuits Recapitulated in Yeast

2:45 PM - 3:00 PM **(T7) Harry Klein** 
A dormancy regulatory module is recruited to suppress maize carpels

3:00 PM - 3:15 PM **(T8) Thomas Hughes** 
SCR and NKD genes regulate leaf patterning during maize development

3:15 PM - 4:00 PM Break

4:00 PM - 5:30 PM Community Session

5:30 PM - 6:30 PM Poster Session I
Even posters 5:30 - 6:00 PM
Odd posters 6:00 - 6:30 PM

Friday June 26 11:00 AM-6:30 PM EDT

11:00 AM - 11:10 AM Announcements

11:10 AM - 1:10 PM Session II: Natural Variation, Breeding and Crop Improvement
Chair: Madelaine Bartlett

11:10 AM - 11:25 AM **(T9) Candice Hirsch**
Characterizing the maize pan-genome and effects on phenotypic variation

11:25 AM - 11:40 AM **(T10) Daniel Gates**
Fitness and environmental patterns in maize landraces identify beneficial alleles at single gene resolution

11:40 AM - 11:55 AM **(T11) Chong Teng** 
Dicer-like 5 deficiency confers temperature-sensitive male sterility in maize

11:55 AM - 12:10 PM **(T12) Natalie Clark**
Generating multi-scale predictive networks of Northern Corn Leaf Blight resistance

12:10 PM - 12:25 PM **(T13) Lei Liu**
Enhancing maize grain yield by CRISPR/Cas9 genomic editing of CLE (CLAVATA3/Embryo-surrounding region) genes for maize breeding

12:25 PM - 12:40 PM **(T14) Bliss Beernink**
Protein expression and gene editing in maize using foxtail mosaic virus vectors

12:40 PM - 12:55 PM **(T15) Mattheus Baseggio**
Key steps towards the biofortification of sweet corn: Identifying genes important for improving vitamin and mineral levels in fresh kernels

12:55 PM - 1:30 PM Break


1:30 PM - 3:10 PM Session III: Gene Function, Genome Structure and Evolution
Chair: Matt Hufford


1:30 PM - 1:45 PM **(T16) Jinliang Yang** 
Adaptive evolution of DNA methylation reshaped gene regulation in maize

1:45 PM - 2:00 PM **(T17) Wei Guo** 
Rapid, Heat-Induced Transgenerational Reactivation of a Silenced Transposable Element in Maize

2:00 PM - 2:15 PM **(T18) Minghui Wang** 
Dissecting Recombination Landscape in Maize Using Machine Learning

2:15 PM - 2:30 PM **(T19) Jaclyn Noshay**
The genetic and epigenetic contribution of TEs in shaping the maize genome

2:30 PM - 2:45 PM **(T20) Yi-Hsuan Chu** 
Elucidating the genome-wide gene regulatory features of transcription factors (TFs) involved in the control of maize phenylpropanoid biosynthesis

2:45 PM - 3:00 PM **(T21) Ian Braun** 
Natural language processing of phenotype descriptions enables automated inference of biological relationships

3:00 PM - 3:30 PM Break


3:30 PM - 4:30 PM Poster Session II
Even posters 3:30 - 4:00 PM
Odd posters 4:00 - 4:30 PM

4:30 PM - 6:00 PM **Session IV: Environmental Interactions and Biochemical Genetics**
Chair: Hilde Nelissen

4:30 PM - 4:45 PM **(T22) Bethan Manley**
*Independent of Arbuscular Mycorrhizal Symbiosis: Positional cloning and characterisation of a novel arbuscular mycorrhizal mutant in *Zea mays**

4:45 PM - 5:00 PM **(T23) Michaela Matthes** 
Imaging Boron: Illuminating hidden aspects of root architecture in maize

5:00 PM - 5:15 PM **(T24) Katherine Murphy**
Bioactive diterpenoids impact the composition of the root-associated microbiome in maize

5:15 PM - 5:30 PM **(T25) Devon Birdseye** 
Maize hybrids show increased expression of plastid protein complexes and decreased expression of ethylene biosynthesis

5:30 PM - 5:45 PM **(T26) Jeff Bennetzen**
Teaching Plant Genetics with Discovery Microbiomics

5:45 PM - 6:15 PM Closing remarks