

## 2020 Virtual Maize Meeting Schedule

All times listed are in PDT.

**Thursday June 25 10:00 AM - 3:30 PM PDT** - check your local time: <https://bit.ly/30GOxwv>

10:00 AM - 10:15 AM Opening remarks/announcements

**10:15 AM - 12:15 PM** Session I: Developmental Regulation  
**Chair: Erin Sparks**

10:15 AM - 10:30 AM **(T1) Yanfang Du**   
*Gene Duplications at the Fascicled ear1 (Fas1) Locus Affect Adaxial-  
Abaxial Cell Fate in Maize Inflorescence Meristems*

10:30 AM - 10:45 AM **(T2) Adam Bray**  
*The classic maize mutant Rootless1 is a bHLH transcription factor that  
modulates crown root number in the field*

10:45 AM - 11:00 AM **(T3) Nick Lauter**   
*Cloning and transcriptomic characterization of macrohairless1, a  
regulator of specialized cell fate commitment in the maize epidermis*

11:00 AM - 11:15 AM **(T4) Norman Best**   
*The lateral suppressor1 gene encodes a GRAS transcription factor  
required for axillary meristem development in maize.*

11:15 AM - 11:30 AM **(T5) James Satterlee**  
*Single-cell transcriptomic analysis of maize shoot apical meristem  
organization and cell differentiation*

11:30 AM - 11:45 AM **(T6) Britney Moss**   
*Maize Auxin Response Circuits Recapitulated in Yeast*

11:45 AM - 12:00 AM **(T7) Harry Klein**   
*A dormancy regulatory module is recruited to suppress maize carpels*

12:00 PM - 12:15 PM **(T8) Thomas Hughes**   
*SCR and NKD genes regulate leaf patterning during maize development*

12:15 PM - 1:00 PM Break

1:00 PM - 2:30 PM Community Session

2:30 PM - 3:30 PM Poster Session I  
*Even posters 2:30 - 3:00 PM*  
*Odd posters 3:00 - 3:30 PM*

Friday June 26 8:00 AM-3:30 PM PDT - check your local time: <https://bit.ly/2UAgiH4>

8:00 AM - 8:10 AM Announcements

**8:10 AM - 10:10 PM** **Session II: Natural Variation, Breeding and Crop Improvement**  
**Chair: Madelaine Bartlett**

8:10 AM - 8:25 AM **(T9) Candice Hirsch**  
*Characterizing the maize pan-genome and effects on phenotypic variation*

8:25 AM - 8:40 AM **(T10) Daniel Gates**  
*Fitness and environmental patterns in maize landraces identify beneficial alleles at single gene resolution*

8:40 AM - 8:55 AM **(T11) Chong Teng**   
*Dicer-like 5 deficiency confers temperature-sensitive male sterility in maize*

8:55 AM - 9:10 AM **(T12) Natalie Clark**  
*Generating multi-scale predictive networks of Northern Corn Leaf Blight resistance*

9:10 AM - 9:25 AM **(T13) Lei Liu**  
*Enhancing maize grain yield by CRISPR/Cas9 genomic editing of CLE (CLAVATA3/Embryo-surrounding region) genes for maize breeding*


9:25 AM - 9:40 AM **(T14) Bliss Beernink**  
*Protein expression and gene editing in maize using foxtail mosaic virus vectors*

9:40 AM - 9:55 AM **(T15) Mattheus Baseggio**  
*Key steps towards the biofortification of sweet corn: Identifying genes important for improving vitamin and mineral levels in fresh kernels*

9:55 AM - 10:30 AM Break


**10:30 AM - 12:10 PM** **Session III: Gene Function, Genome Structure and Evolution**  
**Chair: Matt Hufford**


10:30 AM - 10:45 AM **(T16) Jinliang Yang**   
*Adaptive evolution of DNA methylation reshaped gene regulation in maize*

10:45 AM - 11:00 AM **(T17) Wei Guo**   
*Rapid, Heat-Induced Transgenerational Reactivation of a Silenced Transposable Element in Maize*

11:00 AM - 11:15 AM **(T18) Minghui Wang**   
*Dissecting Recombination Landscape in Maize Using Machine Learning*

11:15 AM - 11:30 AM **(T19) Jaclyn Noshay**  
*The genetic and epigenetic contribution of TEs in shaping the maize genome*

11:30 AM - 11:45 AM **(T20) Yi-Hsuan Chu**   
*Elucidating the genome-wide gene regulatory features of transcription factors (TFs) involved in the control of maize phenylpropanoid biosynthesis*

11:45 AM - 12:00 PM **(T21) Ian Braun**   
*Natural language processing of phenotype descriptions enables automated inference of biological relationships*

12:00 PM - 12:30 PM Break

12:30 PM - 1:30 PM Poster Session II  
*Even posters 12:30 - 1:00 PM*  
*Odd posters 1:00 - 1:30 PM*

**1:30 PM - 3:00 PM** **Session IV: Environmental Interactions and Biochemical Genetics**  
**Chair: Hilde Nelissen**

1:30 PM - 1:45 PM **(T22) Bethan Manley**  
*Independent of Arbuscular Mycorrhizal Symbiosis: Positional cloning and characterisation of a novel arbuscular mycorrhizal mutant in Zea mays*

1:45 PM - 2:00 PM **(T23) Michaela Matthes**   
*Imaging Boron: Illuminating hidden aspects of root architecture in maize*

2:00 PM - 2:15 PM **(T24) Katherine Murphy**  
*Bioactive diterpenoids impact the composition of the root-associated microbiome in maize*

2:15 PM - 2:30 PM **(T25) Devon Birdseye**   
*Maize hybrids show increased expression of plastid protein complexes and decreased expression of ethylene biosynthesis*

2:30 PM - 2:45 PM **(T26) Jeff Bennetzen**  
*Teaching Plant Genetics with Discovery Microbiomics*

2:45 PM - 3:15 PM Closing remarks