SCHEDULE OF EVENTS

Talks will be held in the Grand Ballroom. Posters will be displayed in the Midway.

Thursday, March 31, 2022

9:00 AM - 6:00 PM	OPTIONAL PRE-CONFERENCE WORKSHOPS
All wor	kshops will be located on the 1st floor in the Midway Suites 1-4
9:00 AM – 4:00 PM	Maize Development Genetics Workshop Pre-registration is required. Midway Suites 1-4
3:00 PM – 9:30 PM	REGISTRATION (Depot Registration Office)
3:00 PM – 6:00 PM	POSTER HANGING (Midway)
5:00 PM – 5:45 PM	MaGNET A wardees and Mentors Introductions Midway Suites 1-4
6:00 PM – 7:00 PM	DINNER (Midway)
7:00 PM – 9:00 PM	SESSION 1 – WELCOME / THE GENES THAT MAKE MAIZE Chair: Erin Sparks Talks 1-4.
7:00 PM	WELCOME AND ANNOUNCEMENTS (Grand Ballroom)
7:15 PM	Maruti Nandan Rai, University of Illinois Urbana-Champaign [T1] Glossy15 overexpression alters Carbon partitioning and Nitrogen remobilization in maize stem
7:35 PM	Singha Dhungana, University of Missouri-Columbia [T2] A novel DNAJ-thioredoxin-like protein is required for carbohydrate partitioning in maize
7:55 PM	Rajdeep Khangura, Purdue University [T3] The maize semi-dominant lesion mutant Bella fleck1 provides resistance to common rust and Physoderma brown spot
8:15 PM	Jiahn-Chou Guan, University of Florida [T4] Strigolactones regulate domestication phenotypes of cupule architecture, kernel size, and their coordination via Tgal-dependent and -independent networks.
8:35 PM	Poster Lightning Talks
0.00 PM 4.00 434	
9:00 PM – 1:00 AM	INFORMAL POSTER VIEWING & HOSPITALITY (Midway)

Friday, April 1, 2022

7:00 AM – 8:00 AM 7:30 AM – 12:30 PM	BREAKFAST (Midway) REGISTRATION (Depot Registration Office)	
8:00 AM – 10:10 AM	SESSION 2 – GENOME BIOLOGY Chair: Joe Gage	Talks 5-9.
8:00 AM	ANNOUNCEMENTS	(Grand Ballroom)
8:15 AM	Mila Tost, University of Goettingen Experimental evolution in maize with replicated divergelant-height associated SNPs	[T5] gent selection identifies
8:35 AM	Jonathan Cahn, Cold Spring Harbor Laboratory Maizecode: DNA regulatory elements in maize and tec- insight into maize domestication	[T6] osinte inbreds provide
8:55 AM	Andrea Eveland, Donald Danforth Plant Science Conference Conference of the Andrea Eveland, Donald Danforth Plant Science Conference On Conference of the Andrea Eveland, Donald Danforth Plant Science On Conference On	ide genome-wide
9:15 AM	Mateus Mondin, CYNGELA A knob variant sequence and its relatednesses with ma	[T8] iize evolutionary history
9:35 AM	Shujun Ou, Iowa State University Differences in activity and stability drive transposable tropical and temperate maize	[T9] e element variation in
9:55 AM	Poster Lightning Talks	
10:10 AM – 10:40 AM	BREAK	Foyer A
10:40 AM – 12:30 PM	SESSION 3 – INVITED SPEAKERS Chair: Marna Yandeau-Nelson	
10:40 AM	Introduction	
10:50 AM	Kirsten Bomblies, ETH Zürich Learning to tango with four - problems and solutions to	[IS1] to autopolyploid meiosis
11:40 AM	José Dinneny, Stanford University The divining root: exploring adaptive responses to was system	[IS2] ter using the grass root

Friday, April 1, 2022 (continued)

12:30 PM – 1:30 PM	LUNCH (Midway) PUI Networking Lunch MGC BoD and MGAC Lunch	(Midway Suites 1&2) (Midway Suites 3&4)
1:30 PM – 4:30 PM	POSTER SESSION 1 (Midway)	
1:30 PM – 3:00 PM	Presenters should be at odd numbered posters.	
3:00 PM – 4:30 PM	Presenters should be at even numbered posters.	
Be	verages will be available from 2:30 to 4:00 PM in Midw	ay
4:40 PM – 6:00 PM	SESSION 4 – REGULATING GENES & GENOME Chair: Sam Snodgrass	S Talks 10-12.
4:40 PM	Amanpreet Kaur, Purdue University Hypothesis-driven identification of alleles affecting known transcript accumulation index	[T10] own pathways using a
5:00 PM	Bridget Hua Bai, UC San Diego Unbiased RNA and protein co-expression networks hig regulatory role of coordinated organelle protein home heterosis	
5:20 PM	Benjamin Oakes, The Ohio State University <i>Heritable regulatory states dependent on parental RNA contribute to hybrid vigor</i>	[T12] A polymerase IV
5:40 PM	Poster Lightning Talks	
6:00 PM – 7:00 PM	DINNER (Midway)	
7:00 PM –9:00 PM	SESSION 5 – AWARDS & McCLINTOCK PRIZE	PRESENTATION
7:00 PM	Hank Bass, Florida State University Presenting: Leadership and Cooperator Awards	
7:15 PM	Paula McSteen, University of Missouri Presenting: M. Rhoades Early-Career, L. Stadler Mid	l-Career
7:30 PM	Candice Hirsch, University of Minnesota Presenting: R. Emerson Lifetime Awards	
8:00 PM	Candice Hirsch, University of Minnesota McClintock Prize Presentation Introduction	
8:10 PM	Robin Buell, University of Georgia Plant natural product biosynthesis: An enigma no long	er
9:00 PM – 1:00 AM	INFORMAL POSTER VIEWING & HOSPITALIT	Y (Midway)

Saturday, April 2, 2022

7:00 AM – 8:00 AM 8:00 AM – 12:00 PM	BREAKFAST (Midway) REGISTRATION (Depot Registration Office)	
8:00 AM – 10:00 AM	SESSION 6 – EMERGING TOOLS & APPLIED RESEARC Chair: Rubén Rellán-Álvarez	CH Talks 13-18.
8:00 AM	Minjeong Kang, Iowa State University A rapid and simplified transformation and genome editing met inbred B104 using Agrobacterium ternary vector system and in embryos	•
8:20 AM	Baoxing Song, Cornell University AnchorWave: sensitive alignment of genomes with high diversity polymorphism and whole-genome duplication variation	[T14] ity, structural
8:40 AM	Hannes Claeys, Inari Agriculture Coordinated gene upregulation in maize through CRISPR/Casenhancer insertion to improve nitrogen use efficiency	[T15] -mediated
9:00 AM	Michael Tross, University of Nebraska-Lincoln Data driven trait quantification across a maize diversity panel hyperspectral leaf reflectance	[T16] using
9:20 AM	Devin O'Connor, Pairwise A tunable increase in maize kernel row number using DNA bas	[T17] se editing
9:40 AM	Marc Albertsen, Corteva Agriscience Retired From discovery to smallholder farmers: Ms44 and its 45-year Africa	[T18] journey to
10:00 AM - 10:40 AM	BREAK	Foyer A
10:40 AM – 12:30 PM	SESSION 7 – INVITED SPEAKERS Chair: Petra Wolters	
10:40 AM	Introduction	
10:50 AM	Cranos Williams, North Carolina State University Harnessing the Ag data revolution for modeling plan and agroacross scale	[IS3] nomic systems
11:40 AM	Neelima Sinha, University of California Davis Interactions between the parasitic plants and their hosts	[IS4]

Saturday, April 2, 2022 (continued)

12:30 PM – 1:30 PM	LUNCH (Midway) MGMSC Meeting MaGNET Lunch	(Midway Suites 3&4) (Midway Suites 1&2)
1:30 PM – 5:00 PM	POSTER SESSION 2 (Midway)	
1:30 PM – 3:00 PM	Presenters should be at even numbered posters.	
3:00 PM – 4:30 PM	Presenters should be at odd numbered posters.	
Be	verages will be available from 2:30 to 4:00 PM in M	idway
5:00 PM – 6:00 PM	COMMUNITY SESSION - Maize Genetics Coo MGAC Chair: Ruth Wagner	perative (Grand Ballroom)
6:00 PM – 7:00 PM	DINNER (Midway)	
7:00 PM – 8:20 PM	SESSION 8 – CELLULAR PROCESSES Chair: Todd Jones	Talks 19-22.
7:00 PM	Aimee Uyehara, University of California, Rivers Cell cortex microtubules contribute to division plan telophase in maize	
7:20 PM	Le Liu, UMass, Amherst A Receptor-Like Proteins PAN2 is required for ABA stomatal closure	[T20] A and dark-mediated grass
7:40 PM	Xiaosa Xu, Cold Spring Harbor Laboratory A comprehensive single-cell atlas of plant shoot me functional analysis	[T21] eristems facilitates
8:00 PM	Sanzhen Liu, Kansas State University Revealing Gene Regulation of Cuticular Wax Biosy Transcription Factors	[T22] Inthesis Using Artificial
8:20 PM – 8:40 PM	BREAK	Foyer A
8:40 PM – 9:30 PM	SESSION 9 – FOSTERING DIVERSITY IN THE Chair: Madelaine Bartlett	E MAIZE COMMUNITY
8:40 PM	Banu Subramaniam, University of Massachusett Decolonizing Botany	ts Amherst [IS5]
9:30 PM – 2:00 AM 10:00 PM – 11:00 PM	INFORMAL POSTER VIEWING, & HOSPITATRIVIA	LITY (Midway) (Midway)

Sunday, April 3, 2022

7:00 AM – 8:20 AM **BREAKFAST** (Midway)

Posters should be taken down by 9 AM!

8:20 AM – 10:00 AM	SESSION 10 – BIOTIC FRIENDS & FOES Chair: Er in Sparks	Talks 23-27.
8:20 AM	Alonso Favela, University of Illinois Urbana-Champaign Ancient Roots: Disruption and rewilding of the Zea rhizospher	[T23] re microbiome
8:40 AM	Eric Butoto, North Carolina State University A tale of two selection methods for resistance to Fusarium ear fumonisin in maize	[T24] rot and
9:00 AM	Mara Sgroi, University of Cambridge Invisible to Arbuscular Mycorrhizal Fungi: positional cloning characterisation of the ina arbuscular mycorrhizal mutant in Z	
9:20 AM	Ann Murithi, CIMMYT Discovery and validation of a recessively inherited major effection of the conferring resistance to maize lethal necrosis (MLN) disease	[T26] ct QTL
9:40 AM	Ksenia Krasileva, University of California, Berkeley Evolution of plant immune receptors	[T27]
10:00 AM – 10:30 AM	BREAK	Foyer A
10:00 AM - 10:30 AM 10:30 AM - 11:40 AM	BREAK SESSION 11 – MAIZE & THE ENVIRONMENT Chair: Matt Hufford	Foyer A Talks 28-30.
	SESSION 11 – MAIZE & THE ENVIRONMENT	Talks 28-30.
10:30 AM – 11:40 AM	SESSION 11 – MAIZE & THE ENVIRONMENT Chair: Matt Hufford Jialu Wei, Iowa State University Investigating Dynamic Heat Stress Responses with Diverse Mo	Talks 28-30. [T28] nize Inbreds [T29]
10:30 AM - 11:40 AM 10:30 AM	SESSION 11 – MAIZE & THE ENVIRONMENT Chair: Matt Hufford Jialu Wei, Iowa State University Investigating Dynamic Heat Stress Responses with Diverse Mothrough Transcriptome Analyses Parisa Sarzaeim, University of Nebraska-Lincoln Consolidating OMICS and Environmental Database for Maize	Talks 28-30. [T28] nize Inbreds [T29] e Yield [T30]
10:30 AM - 11:40 AM 10:30 AM 10:50 AM	SESSION 11 – MAIZE & THE ENVIRONMENT Chair: Matt Hufford Jialu Wei, Iowa State University Investigating Dynamic Heat Stress Responses with Diverse Mothrough Transcriptome Analyses Parisa Sarzaeim, University of Nebraska-Lincoln Consolidating OMICS and Environmental Database for Maize Predictions in a Changing Climate Diego Jarquin, University of Florida Unleashing The Potential Of Weather Data For Improving Yie	Talks 28-30. [T28] nize Inbreds [T29] e Yield [T30]