SCHEDULE OF EVENTS

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

Thursday, March 14

8:00 AM - 1:30 PM	OPTIONAL CAREER WORKSHOP (PRE-REGISTRATION REQUIRED)			
8:00 AM - 1:30 PM	Careers in Science beyond Academics	Bayer Crop Science		
	Includes travel to/from Bayer, light breakfast, networking, tour of research facility, seminar by Dr. Rob Martienssen, and panel discussion.			
1:00 PM - 6:00 PM	OPTIONAL PRE-CONFERENCE WORKSHOPS			
All wor	All workshops will be located on the main level in Grand Ballroom C			
1:00 PM - 2:00 PM	MaizeMine	Grand Ballroom C		
2:00 PM – 3:30 PM Workshop cancelled	Gene editing and UAV drones: Perspectives and connections to drive research in an evolving regulation landscape.	Grand Ballroom C		
3:30 PM – 5:00 PM	Maize Epigenetics and Chromatin network: Maize EPIC	Grand Ballroom C		
5:00 PM - 6:00 PM	Make your data FAIR - Next Generation Data Management	Grand Ballroom C		
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 Awardees and Mentors Introductions (Conductor Room)			
6:00 PM - 7:00 PM	DINNER (Midway)			
7:00 PM – 9:00 PM	SESSION 1 - WELCOME / COMMUNICATING WITH CELLS AND PLANTS Chair: Michael Muszynski / Hilde Nelissen	HIN AND BETWEEN Talks 1-5.		
7:00 PM	WELCOME AND ANNOUNCEMENTS (Gr	rand Ballroom)		
7:15 PM	Carolyn Rasmussen, University of California - Riv Role of the microtubule-binding protein TANGLED1 in growth			
7:35 PM	China Lunde, University of California - Berkeley Tasselseed5 overexpresses a wound-inducible enzyme, affects jasmonate catabolism, sex-determination, and maize			

7:55 PM	Fionn McLoughlin, Washington University - St. Louis Maize multi-omics reveal roles for autophagic recycling in nucleotide and carbohydrate metabolism during carbon s	n amino acid,	
8:15 PM	Matthew Warman, Oregon State University Pollen vegetative cell and sperm cell transcriptomes help reffects on fertilization success	[T4] predict mutation	
8:35 PM	Benjamin Julius, University of Missouri An "a-maizing" connection between cell wall biosynthesis partitioning: Brittle Stalk 2-Like3 encodes carbohydrate partition		
9:00 PM - 1:00 AM	INFORMAL POSTER VIEWING & HOSPITALITY	(Midway)	

Friday, March 15

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 – EMERGING TOOLS AND CHALLE Chair: Thomas Slewinski	NGES	Talks 6-11.
8:00 AM	ANNOUNCEMENTS	(Grand Ballr	room)
8:15 AM	Qiuyue Chen, University of Wisconsin - Madis TeoNAM: A nested association mapping population agronomic trait analysis		[T6] cation and
8:35 AM	Kathryn Michel, University of Wisconsin - Madison [T7] Combining ability, per se yield components, and GxE in the Stiff Stalk heterotic group dissected using new genome assemblies combined with exome-capture genotyping of a multi-parent population		
8:55 AM	Zhikai Liang, University of Nebraska - Lincol Genome-Phenome Wide Association Study (GPWA phenotype data to identify the genes that specify	4S): Using high	
9:15 AM	Elizabeth Lee, University of Guelph Functional genetic diversity in the commercial ge anything left?	ermplasm pool	[T9] – Is there
9:35 AM	Ruth Wagner, Bayer Crop Science Sequence, assembly and annotation of Bayer Crop line LH244; A new resource for maize genetics an	p Science's mai	
9:55 AM	Lisa Harper, USDA-ARS Next generation data management.		[T11]
10:10 AM - 10:40 AM	BREAK		
10:40 AM - 12:30 PM	SESSION 3 – INVITED SPEAKERS Chair: Clint Whipple		
10:40 AM	Introduction		
10:50 AM	Zachary Lippman, Cold Spring Harbor Lab <i>Unveiling and harnessing mechanisms of epistasis in plants</i>	s and quantita	[IS1] tive variation
11:40 PM	Sherry Flint-Garcia, USDA-ARS The genetics and consequences of maize domestic	cation and bree	[IS2] eding

Friday, March 15 (continued)

12:30 PM - 1:30 PM	LUNCH (Midway)
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.
Bev	verages will be available from 2:30 to 4:00 PM in Midway

4:40 PM - 6:00 PM	SESSION 4 - THE GENES THAT MAKE MAIZE I Chair: Yongrui Wu Talks 12-15.
4:40 PM	Zhaobin Dong, University of California - Berkeley [T12] The regulatory landscape of a core maize domestication module controlling bud dormancy and growth repress
5:00 PM	Li Chaobin, China Agricultural University [T13] The ZmbZIP22 transcription factor regulates 27-kD γ-zein gene transcription during maize endosperm development
5:20 PM	Josh Strable, Cornell University [T14] Formation of the maize blade-sheath boundary: evidence for a prepattern
5:40 PM	Clinton Whipple, Brigham Young University [T15] Few branched1 is a positional regulator of inflorescence architecture in maize
6:00 PM - 7:00 PM	DINNER (Midway)
7:00 PM -9:00 PM	SESSION 5 – AWARDS & MCCLINTOCK PRIZE PRESENTATION Chair: Jianming Yu
7:00 PM	Jianming Yu, MGEC Chair <i>M. Rhoades Early-Career and L. Stadler Mid-Career Awards</i>
7:25 PM	Natalia De Leon, MGEC Vice Chair R. Emerson Lifetime Awards 2018 and 2019
7:55 PM	Nathan Springer, University of Minnesota McClintock Prize Presentation
8:10 PM	Detlef Weigel, Max-Planck-Gesellschaft <i>Epistasis, the spice of life: Lessons from the study of the plant immune system</i>
9:00 PM – 1:00 AM	INFORMAL POSTER VIEWING & HOSPITALITY (Midway)

Saturday, March 16

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 – INTERACTIONS WITH THE ENVIRONMENT Chair: Andrea Eveland	Talks 16-21.
8:00 AM	Li Guo, China Agricultural University Stepwise cis-regulatory changes in ZCN8 contribute to maize f adaptation	[T16] lowering time
8:20 AM	Mon-Ray Shao, Donald Danforth Plant Science Center Quantifying maize root-shoot plasticity and 3D architectural c water stress using precision phenotyping	[T17] hanges from
8:40 AM	Alisa Huffaker, University of California - San Diego Genetic and biochemical delineation of the zealexin biosynthet reveals coordinated activity of multiple gene clusters to ensure a core maize defense	
9:00 AM	Davide Sosso, Inari Agriculture Inc. <i>Improving maize NUE through multiplexed genome editing</i>	[T19]
9:20 AM	Jiahn-Chou Guan, University of Florida Strigolactone deficient maize dramatically reduces parasitism "witchweed", Striga, and reveals other unknown stimulants.	[T20] by the
9:40 AM	Stephanie Klein, Pennsylvania State University Root metaxylem as a novel target for improved drought tolera	[T21] nce in maize
10:00 AM - 10:40 AM	BREAK	
10:40 AM - 12:30 PM	SESSION 7 - INVITED SPEAKERS Chair: Andrea Gallavotti	
10:40 AM	Introduction	
10:50 AM	Dominique Bergmann, Stanford University <i>Making a difference: stomatal pattern, form and function acro</i>	[IS3] ss plants
11:40 AM	Erik Vollbrecht, Iowa State University Shoot and inflorescence architecture in maize	[IS4]

Saturday, March 16 (continued)

12:30 PM - 1:30 PM	LUNCH (Midway)	
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.	
Bev	erages will be available from 2:30 to 4:00 PM in Midway	
5:00 PM - 6:00 PM	COMMUNITY SESSION - Maize Genetics Executive Committee MGEC Chair: Jianming Yu (Grand Ballroom)	
6:00 PM - 7:00 PM	DINNER (Midway)	
7:00 PM – 9:00 PM	SESSION 8 - The Genes That Make Maize II Chair: Maike Stam	Talks 22-27.
7:00 PM	Matthew Hufford, Iowa State University Assembly and comparative genomic analysis of the maize NAM	[T22] I founders
7:20 PM	Yinan Jian, Huazhong Agricultural University Cloning an ear length QTL reveals ethylene as a developmental controlling kernel number in maize.	[T23] signal
7:40 PM	Fang Bai, University of Florida The maize maternal rough endosperm1 (mre1) mutant is a pareffect locus that disrupts endosperm development	[T24] rent-of-origin
8:00 PM	Hardeep Gumber, Florida State University The Maize LINC KASH AtSINE-like2 (MLKS2) gene encodes an KASH protein that tethers the nucleus to actin and is required j development and meiotic chromosome segregation.	
8:20 PM	Natalie Deans, Ohio State University Paramutation at the maize pl1 locus is manifest by a developm essential CHD3 nucleosome remodeler	[T26] entally-
8:40 PM	Yongxian Lu, Carnegie Institution for Science A silk-expressed pectin methylesterase confers cross-incompativild and domesticated strains of Zea mays.	[T27] bility between
9:00 PM – 2:00 AM	INFORMAL POSTER VIEWING, HOSPITALITY, & DANCE (M	lidway)

Sunday, March 17

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

Posters should be taken down by 9 AM!

8:20 AM – 10:00 AM	SESSION 9 – GENOME BIOLOGY AND EVOLUTION Chair: Jeff Ross-Ibarra	Talks 28-32.
8:20 AM	Bill Ricci, University of Georgia Evidence of widespread gene-distal cis-regulatory elements in genome	[T28] the maize
8:40 AM	Yong Peng, Huazhong Agricultural University <i>Three-dimensional chromatin interactions reveals the function genome</i>	[T29] nal maize
9:00 AM	Kyle Swentowsky, University of Georgia TR1 knobs become motile neocentromeres in the presence of a like motor protein encoded on Ab10	[T30] kinesin-14-
9:20 AM	Benjamin Berube, Cold Spring Harbor Laboratory Epigenetic perturbation of male meiosis in Zea mays	[T31]
9:40 AM	Patrick Monnahan, University of Minnesota More references, more questions: Limitations in maize annotate leads to different representations of gene models across maize genomes	
10:00 AM - 10:30 AM	BREAK	
10:30 AM - 11:40 PM	SESSION 10 - EXPRESSING THE GENOME Chair: Todd Jones	Talks 33-35.
10:30 AM	Robert Maple, University of Warwick Meiosis-associated argonaute (MAGO) proteins are necessary the germline from misregulated transposable elements in mai	
10:50 AM	Hao Wu, Iowa State University <i>Investigation of gene regulatory network of maize endosperm</i>	[T34] development
11:10 AM	Maria Katherine Mejia Guerra, Cornell University Decoding the transcriptional regulatory atlas of the maize lea	[T35] f
11:30 AM	CLOSING REMARKS	
11:40 AM	ADJOURNMENT	