## **Schedule of Events**

Talks will be held in the Grand Ballroom 5-8. Posters will be displayed in the Ballroom Foyer (adjacent to Grand Ballroom) and on the  $3^{\rm rd}$  floor in the St. Johns and Clearwater rooms.

#### Thursday, March 17

2:00 PM - 6:00 PM	OPTIONAL PRE-CONFERENCE WORKSHOPS	
2:00 PM - 3:30 PM 3:30 PM - 4:30 PM 4:30 PM - 6:00 PM	MaizeGDB problem solving workshop (Daytona Room) Gramene tutorial (Daytona Room) Zea mays genome assemblies (Daytona Room)	
	Pre-registration recommended for the above sessions.	
3:00 PM - 8:30 PM	<b>REGISTRATION</b> (2 <sup>nd</sup> Floor Sky Bridge near Grand Ballroom)	
3:00 PM - 6:00 PM	<b>POSTER HANGING</b> (Ballroom Foyer and 3 <sup>rd</sup> floor in St. Johns and Clearwater Rooms)	
6:00 PM – 7:00 PM	<b>DINNER</b> (Grand Ballroom 1-4)	
7:00 PM – 9:00 PM	SESSION 1 – PLENARY TALKS Chair: David Braun	
7:00 PM	<b>WELCOME AND ANNOUNCEMENTS</b> (Grand Ballroom 5-8) David Braun	
7:15 PM	Karen Koch, University of Florida [Plen 1] Sugar in your ears: Regulating transport, metabolism, and consequences	
8:05 PM	Jonathan Lynch, Pennsylvania State University [Plen 2] Phenes and genes for improved water and nutrient capture in maize	
9:00 PM – 10:00 PM	<b>REGISTRATION</b> (2 <sup>nd</sup> Floor Sky Bridge near Grand Ballroom)	
9:00 PM – 1:00 AM	INFORMAL POSTER VIEWING & HOSPITALITY (Grand Ballroom 1-4)	

#### Friday, March 18 7:00 AM - 8:00 AM**BREAKFAST** (Grand Ballroom 1-4) **REGISTRATION** (2<sup>nd</sup> Floor Sky Bridge near Grand Ballroom) 7:00 AM - 8:15 AM 8:00 AM - 10:15 AM SESSION 2 - COMPUTATIONAL & LARGE-SCALE BIOLOGY Chair: Alain Charcosset Talks 1-6. 8:00 AM **ANNOUNCEMENTS** (Grand Ballroom 5-8) David Braun 8:15 AM Amanda Waters, University of Minnesota [T1] Natural variation and cis-regulatory variation for response to abiotic stress in maize 8:35 AM Julia Bailey-Serres, University of California, Riverside [T2] Ancient sensing and response networks regulate flooding tolerance – So what's up with maize? 8:55 AM Ana Paula Alonso, The Ohio State University [T3] Deciphering kernel metabolism: how metabolomics and fluxomic can guide us 9:15 AM **Bo Wang, Cold Spring Harbor Laboratory** [T4] Unveiling the complexity of maize transcriptome by single-molecule long-read sequencing 9:35 AM Linda Hanley-Bowdoin, North Carolina State University [T5] DNA replication timing programs during development of maize root tips 9:55 AM Johann Joets, Institute for Agricultural Research (INRA) [T6] Genome-wide sequence analysis of the maize FV2 inbred line provides new insights into molecular and chromosomal features of presence/absence variants and their implication in European maize genetic originality 10:15 AM **BREAK** 10:45 AM - 12:25 PM SESSION 3 – NEW TOOLS & APPROACHES FOR MAIZE Chair: Karen McGinnis Talks 7-11. 10:45 AM Johanna Smyth, Oregon State University [T7] Proteomic profiling suggests control of translation and protein stability is crucial for pollen tube germination in maize (Zea mays) 11:05 AM Maike Stam, University of Amsterdam [T8] Identification and characterization of distant enhancers in Zea mays 11:25 AM Sergei Svitashev, DuPont Pioneer [T9] Maize genome editing using CRISPR/Cas9 technology 11:45 AM Elizabeth Lee, University of Guelph [T10]

Addie Thompson, Purdue University

12:05 PM

Genomes to Fields' Maize GxE Project: Expression of productivity and

Beyond GWAS: Characterizing drought response of elite temperate

[T11]

phenological traits across a diverse set of environments

and tropical maize using a systems-biology approach

# Friday, March 18 (continued)

12:30 PM – 1:30 PM	LUNCH (Grand Ballroom 1-4)
1:30 PM - 5:00 PM	<b>POSTER SESSION 1</b> (Ballroom Foyer and 3 <sup>rd</sup> floor in St. Johns and Clearwater Rooms)
1:30 PM - 3:00 PM 3:00 PM - 4:30 PM	Presenters should be at odd numbered posters. Presenters should be at even numbered posters.

Beverages will be available from 3:30 PM to 5:00 PM.

4:40 PM – 6:00 PM	SESSION 4 – GENOME STRUCTURE & CYTOGE Chair: Ruairidh Sawers	NETICS Talks 12-15.
4:40 PM	Zhikai Liang, University of Nebraska-Lincoln B73 maize population structure analysis by RNA-seq data	[T12]
5:00 PM	Michelle Stitzer, University of California, Davis  Ecological determinants of transposable element distributions in the B73 maize genome	
5:20 PM	Gernot Presting, University of Hawaii Resolving the centromere paradox – microevolution of control of the DNA repeats	[T14] entromeric
5:40 PM	Arnaud Ronceret, Universidad Nacional Autónoma d Analysis of maize meiotic mutants to fix heterosis	e México[T15]
6:00 PM – 7:00 PM	<b>DINNER</b> (Grand Ballroom 1-4)	
7:00 PM – 9:00 PM	SESSION 5 – MCCLINTOCK PRIZE PRESENTAT Chair: Sherry Flint-Garcia Mc	ION Clintock Talk.
7:00 PM	Nathan Springer, MGEC Chair Early- and Mid-Career Awards	
	Ron Phillips, University of Minnesota McClintock Prize Presentation	
7:40 PM	<b>Jeffrey D. Palmer, Indiana University at Bloomington</b> <i>Horizontal gene transfer – the dark matter of plant genome volution</i>	
9:00 PM – 1:00 AM	INFORMAL POSTER VIEWING & HOSPITALITY (Grand Ballroom 1-4)	7

## Saturday, March 19

7:00 AM – 8:00 AM	BREAKFAST (Grand Ballroom 5-8)	
8:00 AM – 10:20 AM	SESSION 6 – QUANTITATIVE GENETICS & BREEDING Chair: Jianbing Yan Talks	<b>3</b> 16-22.
8:00 AM	Jorge Alberto Romero Navarro, Cornell University Identifying the diamond in the rough: Studying allelic variation complex traits in maize landraces	[T16] for
8:20 AM	Tingting Guo, Iowa State University Optimal design of genomic prediction in maize hybrid breeding	[T17]
8:40 AM	Jason Wallace, The University of Georgia  The effect of host genetics on the maize leaf microbiome across a diverse inbred lines	[T18] 270
9:00 AM	Xiaohong Yang, China Agricultural University Genome-wide association study reveals genetic basis and role of ZmVPP1 in drought tolerance in maize seedlings	[T19] f
9:20 AM	<b>Sebastien Praud, Biogemma</b> <i>BALANCE, a powerful population to decipher complex traits in</i>	[T20] maize
9:40 AM	Lei Liu, Huazhong Agricultural University KRN4 controls quantitative variation in maize kernel row number	[T21] er
10:00 AM	Shuhua Zhan, University of Guelph The genetic basis and adaptive significance of transcript abunda differences between two maize inbreds	[T22] ance
10:20 AM – 10:45 AM	BREAK	
10:45 AM – 12:25 PM	SESSION 7 – CELL & DEVELOPMENTAL GENETICS Chair: Amanda Wright Talks	s 23-27.
10:45 AM	Karina van der Linde, Stanford University Biomolecular interpretation of the Trojan horse myth: Use of University maydis to analyze the function of maize (Zea mays) MAC1	[T23] stilago
11:05 AM	Pablo Martinez, University of California Riverside TANGLED-1 function in maize	[T24]
11:25 AM	Kin Lau, Purdue University Induced and natural variation in genes encoding the microtubul severing ATPase, katanin p60 (KTN1), alter meristem shape, pla morphology and spikelet density	
11:45 AM	Marisa Rosa, University of California at Berkeley The maize Mid-Completing Activity protein NARROW ODD DW is required for normal plant growth and leaf pattering	[T26] //ARF
12:05 PM	Josh Strable, Iowa State University Maize YABBY genes drooping leaf1 and drooping leaf2 affect agronomic traits by regulating leaf and floral architectures	[T27]

## Saturday, March 19 (continued)

12:30 PM – 1:30 PM	LUNCH (Grand Ballroom 1-4)	
1:30 PM – 5:00 PM	POSTER SESSION 2 (Ballroom Foyer and 3 <sup>rd</sup> floor in St. Johns and Clearwater Rooms)	
1:30 PM - 3:00 PM 3:00 PM - 4:30 PM	Presenters should be at even numbered posters. Presenters should be at odd numbered posters.	
Beverages will be	available from 3:30 PM to 5:00 PM.	
5:00 PM – 6:00 PM	<b>COMMUNITY SESSION - Maize Genetics E</b> MGEC Chair: Nathan Springer	xecutive Committee (Grand Ballroom 5-8)
6:00 PM – 7:00 PM	<b>DINNER</b> (Grand Ballroom 1-4)	
7:00 PM – 8:55 PM	SESSION 8 – PLENARY TALKS Chair: Erich Grotewold	
7:00 PM	ANNOUNCEMENTS David Braun	(Grand Ballroom 5-8)
7:15 PM	Mark Stitt, Max Planck Institute for Molecula Golm, Germany Balancing the carbon budget: Are plants better a politicians?	[Plen 3]
8:05 PM	Chris-Carolin Schön, Technische Universität Freising, Germany Splendor and misery of quantitative genetics in a throughput technologies	[Plen 4]
9:00 PM – 2:00 AM	INFORMAL POSTER VIEWING/DANCE (	Grand Ballroom 1-4)

## Sunday, March 20

7:00 AM – 8:20 AM **BREAKFAST** (Grand Ballroom 1-4)

#### Posters should be taken down by 9 am!

8:20 AM – 9:50 AM	SESSION 9 – BIOCHEMICAL & MOI Chair: Petra Wolters	LECULAR GENETICS I Talks 28-31.
8:20 AM	ANNOUNCEMENTS David Braun	(Grand Ballroom 5-8)
8:30 AM	Mihai Miclaus, National Institute of Res for Biological Sciences, Romania Maize cytolines provide key nuclear genes retrograde signaling pathways in plants	[T28]
8:50 AM	Janaki Mudunkothge, University of Flo The maize dosage-effect defective kernel1 transcription factor controlling endospern	(ded1) locus encodes a MYB
9:10 AM	Charles Hunter, USDA-ARS Maize white seedling 3 results from disrup solanesyl transferase	[T30] <i>otion of homogentisate</i>
9:30 AM	Richard Vierstra, Washington University Autophagic recycling plays a central role remobilization	=
9:50 AM	BREAK	
10:20 AM – 11:30 AM	SESSION 10 – BIOCHEMICAL & MO Chair: Wes Bruce	DLECULAR GENETICS II Talks 32-34.
10:20 AM	Norman Best, Purdue University Forward genetics identifies the nuclear po- aladin1, as necessary for tassel architectudivision in maize	
10:40 AM	Hilde Nelissen, VIB Ghent University Altered expression of the maize cytochrom increases biomass and seed yield by an ex division	
11:00 AM	Jorge Nieto-Sotelo, Universidad Naciona México Importance of mesocotyl and plumule grow avoidance in modern maize hybrids: physic	[T34] wth on heat and drought
11:30 AM	ADJOURNMENT	