

Schedule of Events

Thursday, March 18

3:00 PM – 6:00 PM **REGISTRATION / POSTER HANGING**

5:30 PM – 7:00 PM **DINNER**

7:00 PM – 7:20 PM **WELCOME AND ANNOUNCEMENTS**

7:20 PM – 8:30 PM **SESSION 1**

Chair: Jane Dorweiler

7:20 PM **Dedication of a special *Maydica* issue**

7:40 PM **Marianne Bänziger, CIMMYT (Plenary 1)**
Stress tolerant maize for the developing world - Challenges and prospects.

9:00 PM – 12:00 AM **INFORMAL POSTER VIEWING**

12:00 AM – 1:00 AM **HOSPITALITY**

Friday, March 19

8:15 AM – 8:30 AM **ANNOUNCEMENTS**

8:30 AM – 10:10 AM **SESSION 2 – Functional and Quantitative Genomics**
Chair: Giuseppe Gavazzi

- 8:30 AM **Nathan Springer, University of Minnesota (T1)**
Combined analysis of genomic structural variation and gene expression variation between maize and teosinte populations
- 8:50 AM **Joost van Heerwaarden, University of California, Davis (T2)**
A second look at the geographic origin of maize
- 9:10 AM **Michael McMullen, USDA-ARS / University of Missouri (T3)**
Genome diversity, recombination and selection in maize: Evidence for the Hill-Robertson effect on fitness and heterosis
- 9:30 AM **Julie Fievet, UMR Génétique Végétale (T4)**
The metabolic model of the genotype-phenotype relationship reveals the role of epistasis in heterosis
- 9:50 AM **Steve Moose, University of Illinois (T5)**
Genetic Control of Nitrogen Utilization in Maize
- 10:15 AM **BREAK**

10:45 AM – 12:25 PM **SESSION 3 – Development and Cell Biology**
Chair: Paula McSteen

- 10:45 AM **Michael Muszynski, Iowa State University (T6)**
The proximal-distal pattern of maize leaf growth is altered by mutations in a cytokinin signaling protein
- 11:05 AM **John Humphries, University of California San Diego (T7)**
The role of a receptor-like protein and ROP GTPases in the polarization of asymmetric cell divisions in the maize leaf epidermis
- 11:25 AM **Mihaela-Luiza Márton, University of Regensburg (T8)**
Pollen Tube Guidance by ZmEA1 Signalling in Maize and Arabidopsis
- 11:45 AM **Thomas Hartwig, Purdue University (T9)**
na1 (nana plant1) encodes a brassinosteroid biosynthetic enzyme that controls in addition to plant height, sex determination and tillering in maize.
- 12:05 PM **Kimberly Phillips, The Pennsylvania State University (T10)**
vanishing tassel2 (vt2) encodes an auxin biosynthesis gene required for vegetative and inflorescence development in maize

12:30 PM – 1:30 PM **LUNCH**

1:30 PM – 5:00 PM **POSTER SESSION 1**

*Presenters should be at odd numbered posters from 1:30 PM to 3:00 PM.
Presenters should be at even numbered posters from 3:00 PM to 4:30 PM.
Refreshments will be available from 3:30 PM to 5:00 PM.*

Friday, March 19

5:00 PM – 6:00 PM	SESSION 4 – GENOME UPDATES Chair: Mark Cigan
5:00 PM	Doreen Ware, USDA-ARS / Cold Spring Harbor Laboratory (T11) <i>Update of Maize B73 Sequencing Project: New Resources to Study Maize Evolution</i>
5:12 PM	Fusheng Wei, University of Arizona (T12) <i>Maize B73 RefGen_v2, a significant improvement from v1</i>
5:24 PM	Pierre Montalent, UMR Génétique Végétale (T13) <i>EuGène-maize: a web site for maize gene prediction</i>
5:36 PM	Thomas Brutnell, Boyce Thompson Institute (T14) <i>Characterization of the maize leaf transcriptome through ultra high-throughput sequencing</i>
5:48 PM	Carolyn Lawrence, USDA-ARS / Iowa State University (T15) <i>Sequence resources at MaizeGDB with emphasis on POPcorn: a PrOject Portal for corn</i>
6:20 PM – 8:00 PM	SESSION 5 – PLENARY TALKS Chair: Michael Muszynski
6:20 PM	Anne Sylvester, University of Wyoming (Plenary 2) <i>Balancing Cell Division and Expansion during Maize Leaf Development</i>
7:10 PM	Michele Morgante, Università di Udine (Plenary 3) <i>The pan-genome concept in plants: origin, structure and function of the dispensable genome</i>
8:00 PM – 9:00 PM	DINNER
9:30 PM – 12:00 AM	INFORMAL POSTER VIEWING & HOSPITALITY
12:00 AM – 3:00 AM	HOSPITALITY

Saturday, March 20

8:30 AM – 10:10 AM	SESSION 6 – BIOCHEMICAL GENETICS Chair: Uta Paszkowski
8:30 AM	Mario Motto, Unità di Ricerca per la Maiscoltura (T16) <i>The Zea mays mutants opaque-2 and opaque-7 reveal extensive changes in endosperm metabolism as revealed by protein, amino acid, and transcriptome-wide analyses</i>
8:50 AM	Bryan Gibbon, Baylor University (T17) <i>Suppression of opaque2 Phenotypes by Altered Starch Granule Structure</i>
9:10 AM	Thomas L. Slewinski, The Pennsylvania State University (T18) <i>tie-dyed2 regulates carbohydrate export in maize leaves</i>
9:30 AM	Belmiro Vilela, CRAG - Centre for Research in Agrogenomics (T19) <i>ZmSnRK2.8 is involved in stomatal closure and phosphorylates two maize transcription factors</i>
9:50 AM	John Woodward, Cornell University (T20) <i>A maize thiamine auxotroph is defective in shoot meristem maintenance</i>
10:15 AM – 10:45 AM	BREAK
10:45 AM – 12:25 PM	SESSION 7 – Quantitative Genetics and Breeding Chair: William Tracy
10:45 AM	Catherine Bermudez Kandianis, University of Illinois (T21) <i>Rare allelic variation in Zea mays crtRB1 Increases beta-carotene in maize grain</i>
11:05 AM	Sherry Flint-Garcia, USDA-ARS / University of Missouri (T22) <i>Genetic architecture of maize kernel quality in the Nested Association Mapping (NAM) population</i>
11:25 AM	Marc Albertsen, Pioneer Hi-Bred Int., Inc (T23) <i>From basic reproductive biology to novel hybrid seed production</i>
11:45 AM	Jode Edwards, USDA-ARS / Iowa State University (T24) <i>Inheritance of adaptation to high plant density in the Iowa stiff stalk synthetic maize population</i>
12:05 PM	Edward Buckler, USDA-ARS / Cornell University (T25) <i>Genome wide association study of leaf architecture finds key genes that have contributed to maize improvement over the 20th century</i>
12:30 PM – 1:30 PM	LUNCH

Saturday, March 20

1:30 PM – 5:00 PM **POSTER SESSION 2**

Presenters should be at even numbered posters from 1:30 PM to 3:00 PM.

Presenters should be at odd numbered posters from 3:00 PM to 4:30 PM.

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

5:00 PM – 6:00 PM **Community Discussion led by Maize Genetics Executive Committee**

6:20 PM – 8:00 PM **SESSION 8 – PLENARY TALKS**

Chair: Erik Vollbrecht

Enrico Coen, The John Innes Centre (Plenary 4)

Development of Shape in Plants

Alain Charcosset, INRA-CNRS-UPS-AgroParisTech Station de Végétale (Plenary 5)

Genomics of quantitative traits: insights into maize adaptation to Europe and prospects for marker assisted breeding

8:00 PM – 9:00 PM **DINNER**

9:00 PM – 12:00 AM **INFORMAL POSTER VIEWING**

12:00 AM – 3:00 AM **HOSPITALITY**

Sunday, March 21

9:10 AM – 10:10 AM	SESSION 9 – TRANSPOSONS AND EPIGENETICS Chair: Bob Bensen
9:10 AM	Karl Erhard, University of California, Berkeley (T26) <i>Trans-generational action of Pol IV defines a subfunctionalized expression domain of the Pl1-Rhoades allele</i>
9:30 AM	Maike Stam, University of Amsterdam (T27) <i>b1 paramutation: the heritable transfer of epigenetic information in trans</i>
9:50 AM	Damon Lisch, University of California, Berkeley (T28) <i>Changes in epigenetic marks at MuDR are associated with phase change</i>
10:15 AM – 10:45 AM	BREAK
10:45 AM – 12:25 AM	SESSION 10 – EPIGENETICS AND DEVELOPMENT Chair: Karen Koch
10:45 AM	Ryan Douglas, Cornell University (T29) <i>ragged seedling2 encodes an ARGONAUTE7-like protein required for leaf patterning, but not dorsiventrality, in maize</i>
11:05 AM	Manjit Singh, Institut de Recherche pour le Développement (T30) <i>An ovule specific ARGONAUTE protein regulates gamete development in maize</i>
11:25 AM	George Chuck, Plant Gene Expression Center (T31) <i>The maize SPL transcription factor tasselsheath4 regulates bract development and establishment of meristem boundaries</i>
11:45 AM	Liliana Costa, University of Oxford (T32) <i>Regulation of nutrient transfer cells in the maize endosperm by the imprinted gene Meg1</i>
12:05 PM	David Skibbe, Stanford University (T33) <i>Transcriptome and proteome support for organ-specificity of Ustilago maydis tumor induction in maize</i>
12:25 PM	ADJOURNMENT