

Posters

No.	Presenter	Title
1	Brian Burger	Differences in 3-PGA Activation Between Potato Tuber and Maize Endosperm ADP-glucose Pyrophosphorylase
2	Brian Burger	Temperature Sensitive Mutants of Maize Endosperm ADP-glucose Pyrophosphorylase
3	Miguel Cervantes-Cervantes	Characterization of the maize geranylgeranyl pyrophosphate synthase (GGPPS) gene family
4	Christophe Colleoni	Zymogram Analysis of Starch Metabolic Enzyme Activities in Developing Wild-type and Mutant Kernels
5	Jason Dinges	Allelic Effects of Maize Starch Debranching Enzyme Genes <i>sugary1</i> and <i>zpu1</i>
6	Cynthia Gallagher	A novel homolog of Bt2, the small subunit of ADP Glucose Pyrophosphorylase, inhibits carotenoid accumulation.
7	Frank Hochholdinger	Proteomic analysis of embryonic and postembryonic root formation in maize
8	Jose Lopez-Valenzuela	Characterization of eEF1A protein isoforms in developing maize endosperm
9A	Paul D. Matthews	Cloning and characterization of a phytoene synthase (Psy) gene from rice and comparison to maize Y1
9B	Paul D. Matthews	Maize phytoene desaturase (PDS) and zeta-carotene desaturase (ZDS) produce poly-Z-lycopene: Implications for genetic manipulation of carotenogenesis in maize and rice
10	Thomas Rausch	Invertase inhibitor homologs (<i>inhh</i>) in maize
11	Richard Thompson	Maize endosperm secretes a novel antifungal protein into adjacent maternal tissue
12	Wilfred Vermerris	A closer look at an allegedly recessive mutation: dose effects at the brown midrib1 locus
13	Jun Cao	Analysis of the fatty aldehyde dehydrogenase genes of maize via denaturing HPLC-based reverse genetics
14	Shunxing Jiao	Mitochondrial function is required for the accumulation of normal level of photosystem I during chloroplast biogenesis in maize
15	Inna Golubovskaya	The <i>am1-pral</i> and <i>pam1</i> genes: bouquet formation and homologous synapsis
16	Akio Kato	FISH positive probes in maize
17	Ralf G. Kynast	Physical mapping to maize chromosome by using a complete set of oat-maize addition lines
18	Shailesh Lal	Discovery and characterization of maize alternatively spliced genes by EST analysis
19	Carolyn Lawrence	Tree Whittling
20	Josh Marshall	Using FRET to refine the order of components in the maize kinetochore/centromere in meiosis and mitosis
21	Wojciech Pawlowski	<i>dsy498</i> : a new meiotic gene affecting bouquet formation and homologous chromosome synapsis
22	Wojciech Pawlowski	Towards an integrated cytogenetic map of maize
23	Luis Abel Verde	Is recombination affected by stress in maize?

24	Chaoying Zhang	Maize ORC genes
25	Zoya Akulova-Barlow	Some new mutants affecting the coleoptile in maize
26	Brad Bernstein	SEMAPHORE1 contributes to knox gene regulation in a separate genetic pathway than ROUGH SHEATH2.
27	Penny Brading	A Functional Blueprint for Maize Endosperm Development (ZEASTAR)
28	David Braun	tie-dyed1: a non-clonal leaf cell patterning mutant
29	Heather Cartwright	Brick genes are required for epidermal cell lobing in maize.
30	George Chuck	Evidence supporting the cloning of branched silkless
31	Susie Corley	Evolution of lateral organ identity in land plants
32	Liliana Costa	Globby affects development of the apical region of maize endosperm.
33	Suneng Fu	The empty pericarp2 mutants: defective regulation of the heat shock response aborts embryo development at an early stage.
34	Joel Headley	Laminate coleoptile (lco): a study in organ identity
35	Erin Irish	Wandering carpel- a new mutation that alters symmetry of maize flowers
36	Eric W Jamoom	Developmental expression of protease activity in CMS-S and normal maize pollen
37	Michelle Juarez	Dorsoventral patterning of the maize leaf
38	Sharon Kessler	Characterization of cell division patterns in the xcl (extra cell layers) mutation.
39	Jinsheng Lai	A pair of putative fie genes and its parent-of-origin dependant allelic expression in maize
40	Teresa Lavin	Mutants with reduced seed expression have multiple phenotypes and identify two new regulators of the maize anthocyanin pathway
41	Michael Lee	Genotypes and Genes for Improved Methods of Maize Transformation
42	Mark Lubkowitz	A combinatorial approach to assembling the liguleless3 genetic network
43	Paula Mcsteen	Cloning and molecular characterization of bif2
44	Stephen Moose	Molecular genetic approaches to identify glossy15 target genes
45	Odd-Arne Olsen	Hunting for gene hierarchies regulating endosperm development: an effort based on forward and reverse genetics, functional genomics and proteomics.
46	Karen S. Osmont	Characterization of extended auricle (eta) a leaf developmental mutant that affects the blade/sheath boundary in maize
47	Wonkeun Park	Developmental Regulation of an Early Nodulin-like Gene in Maize Endosperm
48	Wonkeun Park	Characterization of Maize stk1
49	Michael Scanlon	Cloning of narrow sheath2, a duplicate factor gene required for recruitment of a lateral domain in the maize leaf.

50	Anne Sylvester	Using cell pattern mutants to explore the function of endoreduplication during leaf development.
51	George Theodoris	Toward a function for rough sheath2 on the cellular level
52	William Tracy	Bilateral coleoptile, midrib or prophyll?
53	Randall Tyers	A recessive allele of rs1 suppresses the rs2 mutant phenotype.
54	Leszek Vincent	The Interactive Maize Plant
55	Justine Walsh	Protein expression of the maize bZIP protein LIGULELESS2
56	Michael Wierzba	IDENTIFICATION OF PROTEINS INVOLVED IN ZEIN mRNA TRAFFICKING IN Zea mays.
57	Hideshi Yasui	Grh2 and Grh4 interaction expressing strong resistance to leafhopper species in rice
58	Yuki Yasumura	The role of glk genes in photosynthetic development
59	Raul Alvarez- Venegas	Arabidopsis Homologs of Drosophila Trithorax Genes. Structure and Evolution of the SET-Domain.
60	Dinakar Bhatramakki	Insertion-Deletion Polymorphisms in 3, Regions of Maize Genes Occur Frequently and Can Be Used as Highly Informative Genetic Markers
61	Cynthia Blakey	Mapping Sexual and Apomictic Tripsacum Floral cDNAs in Zea
62	Georgia Davis	The Intermated B73 x Mo17 Genetic Map: A Community Resource
63	Georgia Davis	Genome Characterization by Screening of Maize BAC Libraries
64	Anusha Dias	Investigating the Evolution of Novel Regulatory Functions in Plants
65	Huihua Fu	The highly recombinogenic bz locus lies in an unusually gene-rich region of the maize genome
66	Cizhong Jiang	Molecular and Computational Analysis of Myb Genes from Sorghum and Maize
67	Ed Coe And Mary Polacco	MaizeDB: New accesses and new data. Try me.
68	Donal O'sullivan	High resolution mapping of a 550 kb YAC contig spanning the rp1 disease resistance locus
69	Ron Okagaki	Preliminary Radiation Hybrid Maps for Maize Chromosomes 2 and 9
70	Wusirika	Comparative sequence analysis of homeologous barley and rice BACs
71	Ramakrishna Rentao Song	SEQUENCING OF A 350-KILOBASE REGION OF MAIZE CHROMOSOME 4S ENCOMPASSING THE 22-KDA alpha-ZEIN GENE SUBFAMILY
72	Yongjie Yang	High-throughput Mapping Tools for Maize Genomics
73	Evgueni Ananiev	Long microsatellites in corn genome
74	Julia Bailey-Serres	Translational regulation in response to abiotic stresses is regulated by multiple signal transduction pathways
**75	Alice Barkan	Photosynthetic Mutant Search(PMS): A genetic resource that is tailored for studies of chloroplast biogenesis

76	Hank W Bass	Towards analysis of meiotic telomere functions
77	Jacqueline Batley	Development of a high-throughput SNUPE assay to analyse SNPs in the flanking sequence of maize microsatellites
78	Christiane Belele	Cloning and characterization of a 106 kb region upstream of the B' coding region.
79	Wesley Bruce	Gene Expression Profiling of Two Related Maize Inbred Lines with Contrasting Root Lodging Traits
80	Edward Bruggemann	Glume bar phenotypes in a B73 x Mo17 recombinant inbred population reveal the epistatic interaction between p1 and b1
81	Paul Bullock	A HIGH EFFICIENCY MAIZE "WHISKER" TRANSFORMATION SYSTEM
82	Charles Carey	The pale aleurone color 1 (pac1) locus, which is required for anthocyanin expression in maize seeds, encodes a homolog of the an11 gene of Petunia and the ttg1 gene of Arabidopsis.
83	Chris Carson	Mapping Maize Mutants - A Resource of the Missouri Maize Project
84	Vicki Chandler	Maize Gene Discovery Project: Microarray Production and Analysis
85	Suzy Cocciolone	Hierarchical patterns of transgene expression indicate involvement of developmental mechanisms in the regulation of the maize p1 gene
86	Ebony Courtney	Suppressor of Plant Blotching: A Modifier of the PI-Blotched allele.
87	Brian Dilkes	Modulation of the Rb pathway leads to novel alterations in development
88	Bill Eggleston	SELECTABLE, HERITABLE EPIGENETIC VARIATION AT THE R1 LOCUS
89	Yan Fu	High-throughput Gene Discovery in Maize: Beyond EST
90	Larbi Gallagher	Localization, editing and translation of mitochondrial transcripts associated with S-type cytoplasmic male sterility in maize
91	Adela Goday	Overexpression of phosphorylated rab17 arrests germination of transgenic Arabidopsis seeds in the presence of salt
92	Wolfgang Goettel	Paramutation of the p1 locus in maize
93	John Gray	THE CELL DEATH SUPPRESSING FUNCTION OF lethal leaf-spot 1 INVOLVES PROTECTING CHLOROPLAST INTEGRITY.
94	Mei Guo	Genome-wide Allele-specific Regulation and Heterosis in Maize Hybrids
95	Mei Guo	mRNA Profiling of Maize Aneuploids Using cDNA Microarray
96	Jose Gutierrez-Marcos	Isolation of maize genes with an imprinted pattern of expression.
97	Jay Hollick	Genetic components required for paramutation at the p1

		locus
98	Gregorio Hueros	A transfer cell myb-related gene activates the expression of previously described transfer cell specific genes.
99	Johann JOETS	"Digital Northern" analysis of publicly available cDNA libraries
100	Heidi Kaepler	High efficiency Agrobacterium-mediated T-DNA transfer into maize immature embryos.
101	Russ Kallis	Development of Transgenic Maize with Altered Linoleic/Oleic Acid Content
102	Terry L. Kamps	Identifying cross-taxa PCR generated markers for a <i>Tripsacum dactyloides</i> mapping population
103	Sarah Kerns	Isolation of methyl-CpG-binding domain genes from maize.
104	Cheol-Soo Kim	Analysis of zein interactions and their role in protein body formation
105	Helena Kirsch	Analysis of the anthocyanin structural gene - Whp in <i>Zea mays</i>
106	Carol-Ann Lambert	A new molecular marker technique: Using Resistant gene analogues (RGA) and Miniature-inverted repeat elements (MITEs).
107	Sue Latshaw	Optimization of Mu-TAIL PCR for analysis of Mu flanking DNA from high-copy lines
108	Warren Lee	Use of [f]dNTP method to explore the problem source for low signal intensity associated with hex-labeled maize SSR markers
109	René Lorbiecke	Identification of genes induced during early kernel development in <i>Zea mays</i> (L.)
110	Zhengrong Ma	Molecular analysis of a lem(lethal embryo) mutant in maize
111	Sheila McCormick	Isolation and characterization of sperm-expressed genes in <i>Zea mays</i>
112	Venugopal Mikkilineni	Serial Analysis of Gene Expression assay of developing kernels from the Illinois Long Term Selection Oil Strains.
113	Michael Miller	High efficiency transgene segregation in co-transformed maize plants using an <i>Agrobacterium tumefaciens</i> two t-DNA binary system
114	Jiqing Peng	High throughput genotyping of single nucleotide polymorphism by bar coded oligonucleotide ligation assay
115	Tara Phelps-Durr	Molecular Analyses of a Maize Centromere
116	Garg Preeti	The Etched 1 gene product of <i>Zea mays</i> contains a zinc ribbon-like domain and is homologous to the eucaryotic transcription elongation factor TFIIS
117	J. Antoni Rafalski	Sequence diversity at the yellow endosperm (y1) locus of maize and the origins of yellow phenotype of cultivated corn
118	Bradley Rauh	NUCLEOTIDE DIVERSITY AND PHENOTYPIC ASSOCIATIONS FOR TWO TRANSCRIPTIONAL ACTIVATING FACTORS OF ZEIN PROTEINS
119	Christophe ROUX	Maize / <i>Sporisorium reilianum zeae</i> interaction

120	Joaquin Royo	A receptor kinase of the Lrk class is expressed at the maize basal endosperm transfer cell layer.
121	Varaporn Sangtong	Transgenic maize lines expressing a wheat Glu1-Dx5 high molecular-weight glutenin
122	Daniela Schreiber	Functional analysis of the late pollen-specific MADS-box gene ZmMADS2
123	Gregorio Segal	Expression of reporter genes in transgenic maize
124	David Selinger	A Comparative Analysis of Genes Involved in Regulating the Chromatin Environment in the Genomes of Plants, Animals and Fungi.
125	David Selinger	Functional Genomics of Maize Chromatin Level Gene Regulation.
126	Mark Settles	Progress on Generating Uniform-Mu Seed Mutants
127	Binzhang Shen	stc2: an orthologue of the volatile defense gene stc1
128	Huixia Shou	Expression of a tobacco MAPKKK gene, NPK1, confers salt tolerance in transgenic maize
129	Lyudmila Sidorenko	Transgenic plants allow further dissection of sequences required for paramutation in maize P1-RR gene.
130	David Skibbe	Characterization of the Aldehyde Dehydrogenase Gene Families of Zea mays and Arabidopsis
131	Nathan Springer	Analysis of genes encoding Polycomb group proteins in maize
132	David Stern	Mitochondrial RNA Polymerase: Reverse Genetics and Biochemistry
133	Erica Unger	DAM-mediated male-sterility is reversed by removal of an adjacent [35S] element using FLP recombinase.
134	Derick Van Staden	SCAR markers for the Ht1, Ht2, Ht3 and Htn1 resistance genes in maize.
135	Kan Wang	Agrobacterium-mediated transformation of maize Hi II immature zygotic embryos using a simple binary vector system
136	Hong Yao	Evaluation of Computational Approaches for Gene Discovery in Maize
137	Matthew Bauer	AFLP Mapping of Insect Resistance in Maize
138	Victor Raul Corcuera	THE EVOLUTIVE CYCLE OF MAIZE INBREDS DEVELOPED IN ARGENTINA
139	Steven Damon	QTL and NIL analysis of maize kernel composition and tassel architecture
140	Matthieu Falque	Role of Sh2 gene in both maize kernel diversity and maize domestication
141	Sherry Flint-Garcia	Quantitative trait locus analysis of rind penetrometer resistance in four maize populations
142	Jenelle Frost	AFLP Mapping for Aflatoxin Reduction in Maize
143	Justin Gerke	The genetics of chlorogenic acid and flavone synthesis in the maize inbred Mo6
144	Stuart Gordon	Linkage of molecular markers to Cercospora zae-maydis resistance QTL via selective genotyping
145	Matthew Krakowsky	Quantitative trait loci associated with cell wall components

146	Vicki Lin	and resistance to the European corn borer in maize A High-Throughput system For Screening Backcross Progeny For Resistance Alleles
147	Rkia Moutiq	Genetic Components of Photoperiod Response in Maize
148	Suzanne Mueller	Genetic Analysis of Phosphorus Uptake in Maize
149	Chandra Paul	Genetic Analyses and Marker Assisted Backcrossing of Resistance to Aflatoxin Production in Maize
150	Jennifer A. Schultz	Integrating AFLP Markers into an Existing RFLP Map for the Sugary Enhancer1 (se1) Trait in Maize
151	Paul Scott	Analysis of nutritionally limiting amino acids in maize populations
152	Jeffry Thornsberry	Nucleotide Diversity and Association Testing of Putative Maize Flowering Time Genes
153	David Weber	Use of recombinant inbreds to identify QTL controlling genetic recombination in maize
154	Larissa Wilson	Diversity and Association Studies in the Kernel Starch Genes Sugary1, Shrunken1, Shrunken2, and Brittle2
156	Dave Edwards	High Throughput Transposon Mutagenesis in Maize
157	Ning Jiang	A genome-wide analysis of MITE multimers in rice (<i>O. sativa</i> cv Nipponbare)
158	Ning Jiang	Dasheng: a novel non-autonomous LTR retro-element that targets condensed chromatin
159	Richard Langham	Mutator in the Grasses
160	Zenaida V. Magbanua	Transposon Display and Mapping Reveal Clusters of the MITE Hb2 in the Maize Genome
161	Rebecca Mroczek	Transposon Display as a method of retrieving sequence from Abnormal chromosome 10
162	Alexander Nagel	Development and applications of Transposon Display (TD) for several MITE families from rice.
163	Thomas Peterson	ANALYSIS OF THE CIS-ELEMENTS REQUIRED FOR TRANSPOSON-INDUCED RECOMBINATION IN PLANTS
164	Thomas Peterson	Non-linear Ac/Ds Transposition and Maize Genome Reorganization
165	Wilailak Pooma	Transposons as Genetic Tools for Functional Analysis of Promoter Function In Vivo
166	Anja Prause	Small Transposable Elements isolated from transcripts of the intensifier alleles in1 and In1-D
167	Marna Yandea	A Targeted Reverse Genetics Approach for Novel Genes and the Study of Ds Insertion Patterns in the 140-kb a1 sh2 Interval
168	Xiaoyu Zhang	Isolation of a novel autonomous class 2 (DNA) element with strong target site preference and MITE family members
169- 172	Late Submissions	Abstracts included in program, but not indexed.