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The Congress Venue
KUBITSCHKE PLAZA HOTEL
SHN Quadra 2 Bloco E
70702-004 Brasília-DF - Brazil
Phone: 55 61 33193543

Monday, August 4th

10:00-19:30

Foyer - Congress Secretariat
Ouro Preto Room – Posters Settlement - A

14:00-14:30 - Minas Gerais Auditorium
Opening Ceremony

14:30-15:30 - Minas Gerais Auditorium
Michiel T. M. Willems, University of Wageningen, Netherlands – Plant reproduction: interaction and regulation?
Honour session

15:30-16:15 - Minas Gerais Auditorium
Elliot Meyerowitz, Caltech, USA – Computational Morphodynamics: Live Imaging and Computational Modeling of the Arabidopsis Shoot Apical Meristem

16:15-16:45 – Foyer – Coffee Break

16:45-18:45

Session 1- Floral Development
Chairperson: Marcio Alves-Ferreira - Brazil

Lucia Colombo, Dipartimento di Biologia, Università di Milano, Italy - *REM18* and *REM53*: two direct targets of the ovule identity complex in *Arabidopsis*

Ioan Negrutiu, Ecole Normal Supérieure de Lyon, Plant Development & Reproduction, Lyon, France - The spatio-temporal control of flower termination in *Arabidopsis*

Marcelo Dornelas, Unicamp, SP, Brazil - Evolution of molecular networks controlling tropical plant reproduction

Marcio Alves-Ferreira, Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil - Identification and characterization of novel genes important for stamen development in *Arabidopsis*

Oral Contribution of selected abstract

Romanel, E and Alves-Ferreira, M. Department of Genetic. Federal University of Rio de Janeiro.

Functional analysis of two B3 (REM family) genes expressed at early stages of stamen development in *Arabidopsis thaliana*.

18:45 -19:30 - Minas Gerais Auditorium

Robert B. Goldberg, Department of Molecular Cell and Developmental Biology, University of California, USA - Using Genomics to Dissect Seed Development

19:30- 21:30 – Bamboo Bar, SL level - Welcome Cocktail offered by Monsanto Brazil

Tuesday, August 5th

08:00- 08:30

Foyer - Secretary

Ouro Preto Room – Posters Settlement - A

08:30-10:15 - Minas Gerais Auditorium

Session 2 - Male gametophyte Development

Chairperson: Scott Russell – USA

Anja Geitmann, Université de Montréal, Canada - Challenging the need for a pacemaker - pollen tube growth oscillations explained with a mechanical harmonic oscillator model

Mohan Singh, Plant Molecular Biology and Biotechnology, University of Melbourne, Australia – Transcriptional regulation of male germ cell lineage

Hui Qiao Tian, School of Life Science, Xiamen University, Xiamen 361005, China
Recent Progress in Research of the Fertilization Mechanism in Angiosperms

Oral Contribution of selected abstracts

Coimbra, S., Costa, M, and Pereira, L.G. - Department of Botany Faculty of Sciences, University of Porto, Portugal -Arabinogalactan proteins during *Arabidopsis* male gametophyte development

Suárez C, Alché JD, Castro AJ and Rodríguez-García MI - Departamento de Bioquímica, Biología Celular y Molecular de Plantas, Estación Experimental del Zaidín (CSIC), Profesor Albareda 1, E-18008, Granada (Spain) -Localization of arabinogalactan proteins (AGPs) and pectins in the olive (*Olea europaea* L.) pollen grain during *in vitro* germination by CLSM.

10:15-10:30 – Foyer – Coffee Break

10:30-11:00 - Ouro Preto Room

Posters Exhibition - A

11:00-12:45 – Minas Gerais Auditorium

Session 3 – Female gametophyte Development

Chairperson: Ueli Grossniklaus – Switzerland

Matthew M. S. Evans, Department of Plant Biology, Carnegie Institution, Stanford, CA, USA - Regulation of embryo sac development by *indeterminate gametophyte1*

Gary N. Drews, University of Utah, USA – Identification of Genes Required During Female Gametophyte Development in *Arabidopsis*

Joseph H. Williams, Department of Ecology and Evolutionary Biology, University of Tennessee, USA: Endosperm genetics and the developmental evolution of female gametophyte body plans.

Oral Contribution of selected abstract

Ewa Szczuka, Aleksandra Seta, Marcin Domaciuk, Ewa Skórzyńska-Polit, Irena Gielwanowska - Department of Plant Anatomy and Cytology, Maria Curie-Skłodowska University, Akademicka 19, 20-033 Lublin, Poland. Department of Plant Physiology, Maria Curie - Skłodowska University, Akademicka 19, 20-033 Lublin, Poland. Department of Plant Physiology and Biotechnology, University of Warmia and Mazury, Oczapowskiego 1A, 10-719 Olsztyn, Poland - Lipoxigenase in the cells of the developing ovule of *Larix kaempferi* (Lamb.) Carr.

12:45-14:00 - Vila Rica Restaurant - Lunch

14:00-14:45 – Minas Gerais Auditorium

Scott Russell, University of Oklahoma, USA - Profiling of the Male Gametophyte of Rice and Other Flowering Plants

14:45-16:15 – Minas Gerais Auditorium

Session 4 - Pollen-Pistil Interaction - Part I.

Chairperson: Maria Helena de Souza Goldman - Brazil

Celestina Mariani, Department of Experimental Botany, University of Nijmegen, Netherlands – There is more than a way to make fruit

Tetsuya Higashiyama, Nagoya University Furo-cho, Japan - Behavior and signaling in gametophytic interactions

Jorge Muschietti, Departamento de Fisiologia, Biología Molecular e Celular, Instituto de Engenharia Genética e Biología Molecular, Buenos Aires, Argentina - LePRK2 signal transduction in pollination: hyperphosphorylation and signaling by an unusual style peptide

Oral Contribution of selected abstract

Aurélien Boisson-Dernier, Tae-Houn Kim, Sabine Frietsch, Marie B. Dizon and Julian I. Schroeder - Division of Biological Sciences, University of California, San Diego, CA, USA - The peroxin loss-of-function mutation abstinence by mutual consent disrupts male-female gametophyte recognition.

16:15-16:45 – Foyer – Coffee Break

16:45-18:15 - Minas Gerais Auditorium

Session 4 – Pollen-Pistil Interaction Part II

Chairperson: Jorge Muschietti – Argentina

Anja Geitmann, University of Montreal, Canada – High speed delivery to the growing point – quantification of vesicle streaming in pollen tubes using spatio-temporal correlation spectroscopy (STICS) and fluorescence recovery after photobleaching (FRAP)

Maria Helena de Souza Goldman, Departamento de Biologia FFCLRP/USP, SP- Brasil - Genes important for pistil development and pollen-pistil interaction in *Nicotiana tabacum* L., a wet stigma species

Joseph H. Williams, Department of Ecology and Evolutionary Biology, University of Tennessee, USA - Before pollen-style interactions: the origin and early evolution of the angiosperm fertilization process

Oral Contribution of selected abstracts

Kowyama, Y., Tsuchiya, T. and Kakeda, K. - Graduate School of Bioresources, Mie University, Tsu, 514-8507, Japan - Life Science Research Center, Mie University, Tsu, 514-8507, Japan - Genomic organization of the sporophytic self-incompatibility locus in *Ipomoea trifida*, a close relative of sweet potato.

18:15-19:00 - Minas Gerais Auditorium

Bruce McClure, Department of Biochemistry, University of Missouri, USA - Pollen endocytosis in S-RNase-based SI

19:00-19:45 - Minas Gerais Auditorium

David Twell, University of Leicester, England - Genetic control of male germline development in flowering plants

Wednesday, August 6th

08:00- 08:30

Foyer - Secretary

Ouro Preto Room - Posters Settlement - A

08:30-09:15 - Auditório Minas Gerais

Ueli Grossniklaus, University of Zurich, Switzerland - The Molecular Basis of Cell-Cell Communication during Double Fertilization in *Arabidopsis thaliana*

09:15-10:00 - Minas Gerais Auditorium

Thomas Dresselhaus, University of Regensburg, Germany - The Role of Polarity and Cross-Talk for Double Fertilization

10:00-10:30 – Foyer - Coffee Break

10:30-11:00 - Ouro Preto Room
Posters Exhibition - A

11:00-12:45 - Minas Gerais Auditorium
Session 5 – Embryogenesis
Chairperson: Thomas Dresselhaus - Germany

John J. Harada, College of Biological Sciences, UC Davis, USA - Dissection of Arabidopsis Embryo and Seed Development

Wolfgang Werr, University of Cologne, Germany - Cellular decisions in the *Arabidopsis* and maize embryo and the EvoDevo perspective

Oral contribution of selected abstracts

Stephanie Meyer and Stefan Scholten - Developmental Biology and Biotechnology, Biocenter Klein Flottbek, University of Hamburg, Ohnhorststraße 18, 22609 Hamburg, German - Immediate paternal genome activation and enhanced trans-regulatory interactions in early maize F₁ hybrid embryos.

Tomokazu Kawashima, Xing-Jun Wang, Yuping Bi, Koen Weterings, and Robert B. Goldberg - 1. Department of Molecular, Cell, and Developmental Biology, University of California, Los Angeles, California 90095 U.S.A. 2. Crop Institute, Shandong Academy of Agricultural Sciences, Shandong, China. 3. Bayer Crop Science N. V. Technologiepark 38 B-9052 Gent, Belgium - *Cis*-Regulatory Sequences Responsible for Suspensor-Specific Transcription.

12:30-12:45 – Hall of the Hotel - XXICSPR Congress Photo

12:45-14:00 - Vila Rica Restaurant - Lunch

14:00-18:30 - Guided Visits

Thursday, August 7th

08:00- 08:30

Foyer - Secretary
Ouro Preto Room – Posters Settlement - B

08:30-10:00 - Minas Gerais Auditorium
Session 6 – Reproduction of Tropical Plants
Chairperson: Marcelo Dornelas – Brazil

Jorge Ernesto Mariath, Universidade Federal do Rio Grande do Sul, RS, Brazil - Male gametophyte characterization on Passion flower reproduction

José F. M. Valls, Embrapa, Brazil – Different breeding mechanisms and dispersal strategies in *Arachis*

Paulo Eugênio A. M. de Oliveira, Universidade Federal de Uberlândia, MG, Brazil - Outbreeding and inbreeding in Cerrado plants: ecological consequences and perspectives

Oral Contribution of the selected abstract

Avanci, N.C.; Pranchevicius, M.C.S; Lourenço, E.V.; Quiapim, A.C.; Goldman, G.H.; Barkman, T.J; Moraes, L.A.B.; Goldman, M.H.S. ¹Department of Biology, FFCLRP – University of São Paulo (USP), Brazil; ²PPG Comparative Biology, FFCLRP – University of São Paulo (USP), Brazil; ³Depart. of Molecular and Cellular Biology, FMRP – University of São Paulo (USP), Brazil; ⁴Department of Pharmaceutical Science, FCFRP - University of São Paulo (USP), Brazil; ⁵Department of Biological Sciences, Western Michigan University, USA; ⁶Chemistry Department, FFCLRP – University of São Paulo (USP), Brazil - A novel pistil-specific methyltransferase gene is capable of producing jasmonate, benzoate and salicylate in vitro and is probably responsible for the jasmonate emission of mature *Nicotiana tabacum* L. flowers.

10:00-10:30 – Foyer - Coffee Break

10:30-11:00 - Ouro Preto Room
Posters Exhibition - B

11:00-12:45 - Minas Gerais Auditorium
Session 7 – Fruit and Seed Development
Chairperson: Rod Scott – England

Fred Berger, Temasek Life Sciences Laboratories, Singapore - Retinoblastoma and its Binding Partner MSI1 Control Imprinting in *Arabidopsis*

Hugh Dickinson, Department of Plant Sciences, University of Oxford, England - Imprinting in the maize endosperm; dissecting the control elements

Rod J. Scott, University of Bath, England – mPC – a novel imprinted gene in *Arabidopsis*, and how to discover more

Oral Contribution of selected abstracts

Rivka Barg^{1*}, Yehiam Salts¹, Oxana Shaiman¹, Irina Sobolev¹, Tali Eilon¹, Sara Shabtai¹, Erich Grotewold² . ¹ Department of Plant Genetics, Institute of Field and Garden Crops, The Volcani Center, ARO, P.O.Box 6, Bet Dagan 50250, Israel. ² Department of Plant Cellular and Molecular Biology and Plant Biotechnology Center, The Ohio State University, 1060 Carmack Road, Columbus, OH 43210, USA - Suppression of cell expansion during the early stages of tomato fruit development is mediated via stage specific expression of the single MYB-like gene *SIFSM1*.

Rodrigues, JCM^{1,2}, Johnson, SD² and Koltunow, AM² . ¹Embrapa Genetic Resources and Biotechnology, Brasilia, Brazil; ²CSIRO Plant Industry, Adelaide, Australia. Epigenetic Regulation of autonomous seed formation in *Hieracium*

12:45-14:00 - Vila Rica Restaurant - Lunch

14:00-16:15 - Minas Gerais Auditorium
Session 8 – Apomixis
Chairperson: Vera Carneiro – Brazil

David M. Stelly, Laboratory of Plant Molecular Cytogenetics, Department of Soil and Crop Science, Texas A&M University, College Station, Texas, USA – The *Semigamy* mutant of Cotton (*Gossypium barbadense* L.)

Imran Siddiqi, Centre for Cellular and Molecular Biology (CCMB)
Andhra Pradesh, India – Gamete formation without meiosis in *Arabidopsis*

John G. Carman – Utah State University, USA - Ovules of apomictic *Boechnera* suppress maleness but invest precociously in filial development – typical behaviors for apomictic eukaryotes

Juan Pablo Ortiz, Universidad Nacional de Rosário, Argentina - Genetic and molecular characterization of apospory in *Paspalum* sp.

Vera Carneiro, Embrapa, Brazil – Apomixis in a tropical forage grass: *Brachiaria*

Oral Contribution of selected abstract

Guimarães, L.A.; Dusi, D.M.A.; Silveira, E.D.; Dornelas, M. C.; Carneiro, V.T.C. Embrapa Recursos Genéticos e Biotecnologia; Universidade de Brasília (UnB); Universidade Federal do Rio de Janeiro, UFRJ; Universidade Estadual de Campinas (UNICAMP). Expression and phylogenetic analysis of two putative MADS-Box like genes of *Brachiaria brizantha* (A. Rich.) Stapf.

Selva JP, Cervigni G, Ochogavía A², Zappacosta D¹, Meier M¹, Pessino S² and V. Echenique¹ - ¹Departamento de Agronomía, Universidad Nacional del Sur, CERZOS CONICET, San Andrés 800, Bahía Blanca, Argentina. ²Laboratorio Central de Investigaciones, Facultad de Ciencias Agrarias de la Universidad Nacional de Rosario, Parque Villarino, Zavalla, Santa Fe, Argentina - Global analysis of the genome, transcriptome and epigenome in the diplosporous grass *Eragrostis curvula* (Schrad.) Nees.

16:15-16:45 – Foyer - Coffee Break

16:45-17:30 – Minas Gerais Auditorium

Anna Koltunow, CSIRO Plant Industries, Adelaide, Australia - The initiation of apomixis in *Hieracium*

17:30-19:30 – Minas Gerais Auditorium

Session 9 – Applied Biotechnology

Chairperson: Christine Horlow - France

Henry Daniell, University of Central Florida, USA - Containment of transgenes by maternal inheritance or cytoplasmic male sterility engineered via the chloroplast genome

Daniela Aviani, SNPC, MAPA, Brasília, Brazil & Cacilda B. Do Valle, Embrapa, MS, Brazil - Cultivar protection rules for apomictic plants

Christine Horlow, Institut National de la Recherche Agronomique - INRS, Versailles, France - Identification of over expressed and down-regulated genes during *Arabidopsis* meiosis and microsporogenesis

Oral Contribution of the selected abstracts

Andrade, R. and Alves-Ferreira, M. - Laboratory of Plant Molecular Genetics; Department of Genetics, Institute of Biology, Federal University of Rio de Janeiro; Rio de Janeiro, Brazil. Identification and functional characterization of cis-elements regulatory of gene involved with desiccation of pollen and seeds of *Arabidopsis thaliana*.

Stephan Nielen, Lucas M. Almeida, Vera T. C. Carneiro, Ana Claudia G. Araujo

¹Embrapa Recursos Genéticos e Biotecnologia, Brasília-DF, Brazil. Analysis of sexual and apomictic accessions of *Brachiaria brizantha* using fluorescent *in situ* hybridization

Cabral, G. B. Oliveira. L, Carneiro, V.T.C. Embrapa Recursos Genéticos e Biotecnologia, Faculdades Integradas da Terra de Brasília. Effect of osmotic pressure in *Brachiaria brizantha* cv. Marandu genetic transformation by biolistic

20:00 - 23:30 - Congress Dinner offered by Monsanto Brazil

Friday, August 8th

08:00- 08:30

Foyer - Secretary

Ouro Preto Room – Posters Settlement - B

08:30- 09:15

Catherine Albrecht, University Wageningen, Netherlands - The *Arabidopsis* SOMATIC EMBRYOGENESIS RECEPTOR-LIKE KINASE (SERK) proteins function in brassinosteroid dependent and independent signaling

09:15- 10:00

Jean Phillippe Vielle-Calzada, Centro de Investigación y de Estudios Avanzados - Unidad Irapuato, Mexico – Epigenetic regulation of female reproductive development in *Arabidopsis thaliana*

10:00-10:30 – Foyer – Coffee Break

10:30-11:00 -Ouro Preto Room

Posters Exhibition - B

11:00-11:45 – Minas Gerais Auditorium

Simon Hiscock, School of Biological Sciences, University of Bristol, England – The forgotten layer: the stigma pellicle and its role in pollen-stigma interactions

11:45 -12:45 – Minas Gerais Auditorium

IASPRR Assembly

Awards

Closing Ceremony

Monday, August 4 th	Tuesday, August 5 th	Wednesday, August 6 th	Thursday, August 7 th	Friday, August 8 th
<p>10:00- 19:30 Secretary Posters Settlement- A</p>	<p>08:00-08:30 Secretary Posters Settlement - A</p> <p>08:30-10:15 Session 2 Male Gametophyte Development <i>Chair.</i> Scott Russell Anja Geitmann Mohan Singh Hui Qiao Tian <i>Oral Contributions</i> - Coimbra, Silvia, Costa, M, Pereira, L.G - Suárez C, Alché JD, Castro AJ, Rodríguez-García MI.</p>	<p>08:00-08:30 Secretary</p> <p>8:30-09:15 Ueli Grossniklaus</p> <p>09:15-10:00 Thomas Dresselhaus</p>	<p>08:00-08:30 Secretary Posters Settlement - B</p> <p>08:30-10:00 Session 6 Reproduction of Tropical Plants <i>Chair.</i> Marcelo Dornelas Jorge Ernesto Mariath José F. M. Valls Paulo Eugênio A. M. de Oliveira <i>Oral Contribution</i> - <u>Avanci NC</u>; Pranchevicius MCS; Lourenço EV; Quiapim AC, Goldman GH; Barkman TJ; Moraes LAB; Goldman MHS.</p>	<p>08:00-08:30 Secretary Posters Settlement - B</p> <p>08:30-09:15 Catherine Albrecht 09:15-10:00 Jean P.Vielle-Calzada</p>
10:15-10:30 - Coffee Break				
	<p>10:30-11:00 Posters Exhibition – A</p> <p>11:00-12:45 Session 3 Female Gametophyte Develop. <i>Chair.</i> Ueli Grossniklaus Matthew M. S. Evans Gary N. Drews Joseph H. Williams <i>Oral Contribution</i> - Ewa Szczuka, A Seta, M Domaciuk, E Skórzyńska-Polit, I Gielwanowska.</p>	<p>10:00-10:30 Coffee Break</p> <p>10:30-11:00 Posters Exhibition – A</p> <p>11:00-12:45 Session 5 Embryogenesis <i>Chair.</i> Thomas Dresselhaus John J. Harada Wolfgang Werr <i>Oral contributions</i> - S. Meyer, <u>Stefan Scholten</u> - <u>Tomokazu Kawashima</u>, Wang,Y Bi, K Weterings, RB Goldberg.</p> <p style="text-align: center;">Congress Photo</p>	<p>10:00-10:30 - Coffee Break</p> <p>10:30-11:00 Posters Exhibition – B</p> <p>11:00-12:45 Session 7 Fruits and Seed Development <i>Chair.</i> Rod J. Scott Fred Berger Hugh Dickinson Rod J. Scott <i>Oral Contributions</i> - Rivka Barg, Y Salts, O Shaiman, I Sobolev, T Eilon, S Shabtai, E Grotewold. -<u>Rodrigues JCM</u>, Johnson SD, Koltunow, AM.</p>	<p>10:00-10:30 Coffee Break</p> <p>10:30-11:00 Posters Exhibition - B</p> <p>11:00-11:45 Simon Hiscock</p> <p>11:45-12:45 IASPRR Assembly Awards Closing session</p>
	12:45– 14:00 - Lunch	12:45 – 14:00 - Lunch	12:45 – 14:00 -Lunch	

<p>14:00-14:30 Opening Session</p> <p>14:30-15:30 M. T. M. Willemse Honour session</p> <p>15:30-16:15 E. Meyerowitz</p>	<p>14:00-14:45 Scott Russell</p> <p>14:45-16:15 Session 4 Pollen-Pistil Interaction - I <i>Chair.</i> Maria H. S. Goldman Celestina Mariani Tetsuya Higashiyama Jorge Muschietti <i>Oral Contribution</i> - <u>Aurélien B. Dernier</u>, T-H Kim, S Frietsch, MB Dizon, JI Schroeder.</p>	<p>14:00-18:30</p> <p>Guided Visits</p>	<p>14:00-16:15 Session 8 Apomixis <i>Chair.</i> Vera Carneiro David M. Stelly Imran Siddiqi John G. Carman Juan Pablo Ortiz Vera Carneiro <i>Oral Contributions</i> - Guimarães L, Dusi DMA; Silveira ED; Dornelas MC; Carneiro VTC. - Selva JP, Cervigni G, Ochogavía A, Zappacosta D, Meier M, Pessino S, <u>V. Echenique</u></p>
<p>16:15-16:45 – Coffe Break</p>			<p>16:15-16:45 – Coffee Break</p>
<p>16:45-18:45 Session 1 Floral Development <i>Chair.</i> Marcio A. Ferreira Lucia Colombo Marcelo Dornelas Ioan Negrutiu Marcio Alves-Ferreira <i>Oral Contribution</i> - <u>Romanel E</u>; Alves-Ferreira M.</p> <p>18:45-19:30 Robert B. Goldberg</p> <p>19:30 Welcome Cocktail</p>	<p>16:45 – 18:15 Session 4 Pollen-Pistil Interaction - II <i>Chair.</i> Jorge Muschietti Anja Geitmann Maria Helena de Souza Goldman Joseph H. Williams <i>Oral Contribution</i> - <u>Kowyama Y</u>, Tsuchiya T, Kakeda K.</p> <p>18:15-19:00 Bruce McClure</p> <p>19:00-19:45 David Twell</p>		<p>16:45-17:30 Anna Koltunow</p> <p>17:30-19:30 Session 9 Applied Biotechnology <i>Chair.</i> Christine Horlow Henry Daniell Daniela Aviani & Cacilda B. Valle Christine Horlow <i>Oral Contributions</i> - <u>Andrade R</u>, Alves-Ferreira, M. - S. Nielsen, LM Almeida, VTC Carneiro, <u>A.C.G. Araujo</u> - Cabral, G B, Oliveira L, Carneiro VTC.</p> <p>20:00 Congress Dinner</p>