

Monday 14th July

08:30 **Opening: Sílvia Coimbra, Lucia Colombo and Thomas Dresselhaus**

Session 1 | Flowering and Flower Organ Development

Chair: Thomas Dresselhaus

09:00 T1 **Gibberellin acts positively then negatively to control onset of flower formation in Arabidopsis**

Doris Wagner, University of Pennsylvania, Philadelphia, USA

09:30 T2 **Epigenetic regulations of flowering time in rice**

Gynheung An, Kyung Hee University, Yongin, South Korea

09:40 T3 **Molecular events underlying floral transition at the shoot apical meristem of soybean**

Prem Bhalla, University of Melbourne, Australia

10:00 T4 **Jasmonic acid is a novel regulator of spikelet development in rice**

Dabing Zhang, School of Life Sciences and Biotechnology, Shanghai, China

10:15 T5 **Chromatin-level co-regulation of clustered genes in stamen development**

Jens Sundström, Swedish University of Agricultural Sciences, Uppsala, Sweden

10:30 **Coffee break**

Chair: Lucia Colombo

11:00 T6 **The interactome of SCI1 (Stigma/style Cell-cycle Inhibitor 1) reveals a potential mechanism for its inhibition of the CDK complex**

Maria Helena Goldman, University of São Paulo/ FFCLRP, Ribeirão Preto, Brasil

11:15 T7 **Three MYB-like proteins are involved in a subcellular tug-of-war underlying flower asymmetry in Antirrhinum**

Maria Manuela Costa, University of Minho, Braga, Portugal

11:30 T8 **The genetic pathway in tapetum regulates pollen wall formation in Arabidopsis**

Zhong-Nan Yang, Shanghai Normal University, China

11:45 T9 **Sorry, reception closed: Age-induced programmed cell death limiting the functional life span of the floral stigma**

Moritz Nowack, VIB/Ghent University, Belgium

12:00 T10 **Functional analysis of the MADS-box and bHLH transcription factors during ovule development in *Arabidopsis thaliana***

Irma Roig Villanova, Università degli Studi di Milano, Italy

12:15 **Lunch**

Session 2 | Meiosis and Apomixis

Chair: Fred Berger

14:00 T11 **What limits meiotic recombination?**

Raphael Mercier, Institut Jean-Pierre Bourgin, Versailles, France

14:30	T12	Apomixis-like phenomenon occurred in Arabidopsis transformants of ASG-1, an apomixis-specific gene isolated from facultative apomictic guinea grass (<i>Panicum maximum</i>) <i>Lanzhuang Chen, Minami Kyushu University, Miyakonojo, Japan</i>
14:45	T13	JASON maintains cytoplasmic organization during male meiosis <i>Lynette Brownfield, University of Otago, Dunedin, New Zealand</i>
15:00	T14	The role of germline-specific rice Argonaute MEL1 in meiotic homolog pairing <i>Ken-Ichi Nonomura, National institute of Genetics, Shizuoka, Japan</i>
15:15	T15	Evidence for accumulation of transposable elements in the parthenogenesis locus of apomictic <i>Taraxacum</i> <i>Peter J. van Dijk, Keygene N.V., Wageningen, The Netherlands</i>
15:30	T16	Asexual seed formation (apomixis) in <i>Hieracium</i> – a matter of life and death <i>Anna Koltunow, CSIRO-Plant Industry, Osmond, Australia</i>
16:00		Pecha Kucha I
16:30		Poster session I and coffee break

Tuesday 15th July

Session 2 | Meiosis and Apomixis (cont.)

Chair: Tetsuya Higashiyama

08:30	T17	CDKA;1 in Arabidopsis regulates the CO-landscape, CO-incidence and is required for WT levels of CO-interference <i>Erik Wijnker, University of Strasbourg, France</i>
09:00	T18	Molecular basis of meiotic drive in tomato pollen <i>Bernard J. Carroll, University of Queensland, Brisbane, Australia</i>
09:15	T19	Impact of temperature stress on meiotic cell division in plants – case study in <i>Arabidopsis thaliana</i> <i>Nicole De Storme, University of Ghent, Belgium</i>

Session 3 | Germline Development and Function

09:30	T20	Distilling the ‘Essence of Male’ in plant germline development <i>David Twell, University of Leicester, U. K.</i>
10:00	T21	Tapetum control of pollen development <i>Zoe Wilson, University of Nottingham, Loughborough, U. K.</i>
10:15	T22	Elucidating the role of signals and cell wall polysaccharides during megaspore specification in Arabidopsis <i>Matthew Tucker, University of Adelaide, Urrbrae, Australia</i>
10:30		Coffee break

Chair: Ueli Grossniklaus

11:00	T23	Microspore release from the tetrad: Progress towards identifying wall-degrading enzymes and their mechanisms <i>Julia Tratt, University of Bath, U. K.</i>
11:15	T24	DAZ1 and DAZ2: two novel EAR-dependent zinc finger proteins that promote mitotic transition and sperm fertility in Arabidopsis <i>Michael Borg, University of Leicester, U. K.</i>
11:30	T25	MTU1, the novel bHLH transcription factor involved in differentiation of inner-anther wall layers during meiosis in rice <i>Seijiro Ono, National Institute of Genetics, Shizuoka, Japan</i>
11:45	T26	Characterizing new proteins involved in vesicular transport <i>Wei-Cai Yang, Chinese Academy of Sciences, Beijing, China</i>
12:00	T27	A NOT so simple change of fate: NOT1 as a major regulator of late gametophyte maturation <i>Jörg D. Becker, Instituto Gulbenkian de Ciência, Oeiras, Portugal</i>
12:15	Lunch	
Chair: Anna Koltunow		
14:00	T28	Occurrence transposable element-related sequences in transcripts of rice gametes and pollen <i>Scott Russell, University of Oklahoma, U. S. A.</i>
14:15	T29	Detection of histone methylation marks and expression survey of histone and histone modifying enzymes in sexual reproductive organs of the lower plant <i>Marchantia polymorpha</i> <i>Martin O'Brien, University of Melbourne, Parkville, Australia</i>
14:30	T30	Natural epigenetic variation affects cell specification during megasporogenesis in Arabidopsis <i>Arnaud Ronceret, Langebio Cinvestav, Irapuato, Mexico</i>
Session 4 Evolution of Reproductive Structures and Species Conservation Organized by: Giovanna Aronne		
15:00	T31	The implications of deception in pollination on nature conservation policy <i>Amots Dafni, Haifa University, Israel</i>
15:30	T32	Interspecific hybridization barriers in plants: GWAS reveals a role for glycosylation patterns in gametophyte recognition <i>Lena Maria Müller, University of Zürich, Switzerland</i>
15:45	T33	The DCL1-miR167-ARF8 pathway in reproductive development and the evolution of seed plants <i>Adam Vivian-Smith, Norwegian Forest and Landscape Institute/Bioforsk, Aas, Norway</i>
16:00	Coffee break	
Chair: Giovanna Aronne		
16:30	T34	Repeated evolution of tricellular (and bicellular) pollen <i>Joseph Williams, University of Tennessee, Knoxville, U. S. A.</i>

16:45	T35	Flower biology of the relict species <i>Primula palinuri</i>: adaptation to past climate changes and warning for future scenarios <i>Giovanna Aronne, University of Naples Federico II, Portici, Italy</i>
17:00	T36	RNA sequencing reveals sexually dimorphic gene expression pre-dating sex organ differentiation in male and female gametophytes of <i>Marchantia polymorpha</i> <i>Mohan Singh, University of Melbourne, Australia</i>
17:15	T37	An evolutionary framework for carpel developmental control genes <i>Annette Becker, Justus-Liebig-University, Institute of Botany, Gießen, Germany</i>
17:30	T38	Interplay between mating systems, hybridisation and polyploidy drives ongoing speciation in <i>Sorbus</i> <i>Simon Hiscock, University of Bristol, U. K.</i>
17:45	T39	Monitoring breeding systems for threatened species in disturbance-prone environments — simple steps to unravel infertility in low fecund species <i>Caroline Gross, University of New England, Armidale, Australia</i>

18:15 IASPR General Assembly

Wednesday 16th July

Session 5 | Self-Incompatibility Mechanisms

Chair: Sílvia Coimbra

08:30	T40	Functional analysis of <i>Papaver rhoeas</i> stigma and pollen S-determinants, PrsS and PrpS in <i>Arabidopsis thaliana</i> <i>Zongcheng Lin, University of Birmingham, U. K.</i>
08:45	T41	The self-incompatibility fertilization system in the Rosaceae subfamily Prunus <i>Martin Goldway, Tel-Hai College, Upper Galilee, Israel</i>
09:00	T42	Evolutionary and genetic basis of reduced pollen number in the predominantly selfing species <i>Arabidopsis thaliana</i> <i>Kentaro K. Shimizu, University of Zürich, Switzerland</i>
09:15	T43	Pollen tube cytoskeleton modification by transglutaminase during self-incompatibility in pear <i>Stefano Del Duca, University of Bologna, Italy</i>
09:30	T44	Variation in the expression of self-incompatibility reaction in <i>Brassica oleracea</i> L. <i>Houria Hadj-Arab, University of Sciences and Technology Houari Boumediene, Algiers, Algeria</i>

Session 6 | Pollen Tube Growth

09:45	T45	Coordination of pollen tube growth by Ca²⁺: channels and downstream mechanism <i>José Feijó, Univ. Maryland (USA) and Instituto Gulbenkian de Ciência (Portugal)</i>
10:15	T46	ANXUR receptor-like kinases coordinate cell wall integrity with growth at the pollen tube tip via NADPH oxidases <i>Aurélien Boisson-Dernier, University of Cologne, Germany</i>
10:30		Coffee break

Chair: David Twell

11:00	T47	Brassinosteroids promote Arabidopsis pollen germination and growth <i>Stefanie Sprunck, University of Regensburg, Germany</i>
11:15	T48	The role of <i>Arabidopsis thaliana</i> phosphatidylinositol and lipid kinases, in pollen tube growth and fertilization: a cellular and molecular analysis <i>Rui Malhó, Universidade de Lisboa, Portugal</i>
11:30	T49	Translation regulation in tobacco pollen; a proteomic view <i>David Honys, Institute of Experimental Botany ASCR, Prague, Czech Republic</i>
11:45	T50	Nt-Risap is a TGN associated Nt-Rac5 effector regulating membrane traffic during polar cell growth in tobacco <i>Octavian Stephan, University Erlangen-Nuremberg, Erlangen, Germany</i>
12:00	T51	Pollen tube tip growth: Chemogenomics approach reveals a new mechanism behind the tip <i>Yuan Qin, Fujian Agriculture and Forestry University, Fujian, P.R.China.</i>
12:30		Lunch (University House)
14:30		Downtown guided tour
16:30		River Douro boat trip

Thursday 17th July

Session 7 | Fertilization Mechanisms

Chair: José Feijó

08:30	T52	Discovery of AMOR glycan for pollen tube guidance: microfluidics and synthetic chemistry approaches <i>Tetsuya Higashiyama, Nagoya University, Japan</i>
09:00	T53	F-actin dynamics are essential for Arabidopsis fertilization <i>Tomokazu Kawashima, Gregor Mendel Institute, Vienna, Austria</i>
09:15	T54	Regulation of LURE-reception ability at the pollen tube tip of <i>Torenia fournieri</i> <i>Satohiro Okuda, Nagoya University, Japan</i>
09:30	T55	Untangling pollen tube and pistil gene expression using SNP-informed deep sequencing <i>Alexander Leydon, Brown University, Providence, U. S. A.</i>
09:45	T56	Rapid elimination of synergid cells through a cell-to-cell fusion with endosperm <i>Daisuke Maruyama, Nagoya University, Japan</i>
10:00	T57	MYB97, MYB101 and MYB120 function as male factors that control pollen tube-synergid interaction in <i>Arabidopsis thaliana</i> fertilization <i>Ze-Min Tan, China Agricultural University, Beijing, China</i>
10:15	T58	Cell-to-cell communication in grasses by EA1-like peptides <i>Susanne Uebler, University of Regensburg, Germany</i>
10:30		Coffee break

Chair: José Gutierrez-Marcos

11:00 T59 **A calcium dialog mediated by the FERONIA signal transduction pathway controls plant sperm delivery**

Quy A. Ngo, University of Zürich, Switzerland

11:15 T60 **The cells of the female gametophyte display specific calcium signatures during double fertilization in *Arabidopsis thaliana***

Yuki Hamamura, Université de Montréal, Canada

11:30 T61 **Intercellular interactions within the male germ unit: functional relevance in double fertilization**

Leonor Boavida, Instituto Gulbenkian de Ciência, Oeiras, Portugal

11:45 T62 **Unravelling the function and expression pattern of AGP4 in *Arabidopsis thaliana* reproduction**

Ana Marta Pereira, Faculdade de Ciências da Universidade do Porto, Portugal

12:00 T63 **Molecular control of pollen tube reception**

Ueli Grossniklaus, University of Zürich, Switzerland

12:30 **Lunch**

Session 8 | Embryogenesis and Endosperm Development

Chair: Raphael Mercier

14:00 T64 **Reprogramming and zygotic activation in *Arabidopsis***

Fred Berger, Temasek Life Science Laboratory, Singapore

14:30 T65 **Heritable barley genome engineering using TALE-nuclease in haploid cells**

Jochen Kumlehn, IPK, Gatersleben, Germany

14:45 T66 **NtCYS, a multifunctional player in plant PCD during embryogenesis**

Mengxiang Sun, Wuhan University, China

15:00 T67 **YODA signaling in the *Arabidopsis* embryo**

Martin Bayer, Max Planck Institute for Developmental Biology, Tübingen, Germany

15:15 T68 **Assembly and localization of mRNPs during early embryogenesis in *Arabidopsis***

Andrea Bleckmann, University of Regensburg, Germany

15:30 T69 **Natural variation in the epigenetic control of seed development in *Arabidopsis***

Nuno Pires, University of Zürich, Switzerland

15:45 T70 **Genetic control of identity, growth and shape in the *Arabidopsis* embryo**

Dolf Weijers, Wageningen University, The Netherlands

16:15 **Pecha Kucha II**

16:45 **Poster session II and coffee break**

Congress Dinner

Friday 18th July

Session 9 | Seed and Fruit Development

Chair: Dolf Weijers

08:30	T71	Auxin dynamics put polarity in the pod <i>Lars Østergaard, John Innes Centre, Norwich, U. K.</i>
09:00	T72	Signalling mechanisms establishing early seed development in <i>Arabidopsis thaliana</i> <i>Duarte D. Figueiredo, SLU Inst. för Växtbiologi, Uppsala, Sweden</i>
09:15	T73	Investigating the role of transcription factors in fruit development <i>Sofia Kourmpetli, University of Leicester, U. K.</i>
09:30	T74	Ethylene negatively regulates fruit set and early fruit development <i>Manuel Jamilena, University of Almería, Spain</i>
09:45	T75	Flavonoid regulation of seed development in <i>Arabidopsis</i> - a role for auxin? <i>Maha Aljabri, University of Bath, U. K.</i>
10:00	T76	Growing hearts and cylinders: Comparing <i>Arabidopsis</i> and <i>Capsella</i> reveals switching growth patterns after fertilisation <i>Tilly Eldridge, John Innes Centre, Norwich, U. K.</i>
10:15	T77	TCP14 and TCP15, together with DELLAS, regulate <i>Arabidopsis</i> seed germination <i>Simona Masiero, Università degli Studi di Milano, Italy</i>
10:30		Coffee break
11:00	T78	Regulatory mechanisms of plant seed size control <i>Rita Groß-Hardt, University of Bremen, Germany</i>
11:30	T79	Communication between female gametes modulates early embryo development in flowering plants <i>Jose Gutierrez-Marcos, University of Warwick, U. K.</i>
12:00		Awards/Meeting Closure