XXI International Congress on Sexual Plant Reproduction

2nd – 6th August 2010
Bristol, UK

Programme and Abstract Book
XXI International Congress on Sexual Plant Reproduction

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Meeting Location
The XXI ICSPR is being held at the Victoria Rooms, University of Bristol, Clifton, Bristol, UK. Scientific sessions will take place in the main auditorium.

Conference Badges
Conference participants are required to wear name badges at all times, for proof of registration, for security purposes and for catering identification.

Catering
Refreshments and lunch (picnic-style packed lunch) will be served in the Theatre Bar and Lecture Room G12 (see venue plan).

Evening meals
No evening meals are provided at the conference venue. Delegates are encouraged to use one of the recommended local restaurants, cafes, or pubs (see information provided in delegate bags).

Poster Sessions
Two poster sessions will take place in Victoria’s Room and rear oratorio (see venue plan) on Tuesday 3 August, 6.00-7.30pm and Thursday 5 August, 5.30-8.00pm. Help will be available for hanging posters all day on Monday 2 August. Fastenings (Velcro) will be provided for your posters. Please ensure that your posters are put up by Tuesday 3 August and taken down by 6pm on Friday 6 August.

Welcome Reception Monday 2 August
Theatre Bar, Victoria Rooms, 6.35-8.00pm - celebrating cider: the drink of the West Country.

Gala Reception (Sponsored by Pioneer) Wednesday 4 August
On board Brunel’s famous SS Great Britain, Great Western Dock, Gas Ferry Road, 6.00-8.30pm. Helpers will direct/escort delegates from the Victoria Rooms at 5pm. Delegates who have booked on the open-top bus tours of Bristol or the visit to the University Botanic Garden (see Tours, below) will be delivered to the ship directly.

Tours
Wednesday 4 August and Saturday 7 August: Spaces on the tours are strictly limited so advance booking at the reception desk is essential to avoid disappointment; tours cost £6 per person.

University Botanic Garden:
Wednesday 4 August: A bus will leave the Victoria Rooms at 3.30, departing the Botanic Garden for the SS Great Britain at approx. 5.15pm.
Saturday 7 August: A bus will leave the Victoria Rooms at 10.30am, returning at 1.00pm.

Open-Top Bus Tours of Bristol:
Wednesday 4 August: Two buses will be departing from the Victoria Rooms at 4.45pm and 5.00pm. Delegates will be delivered to the SS Great Britain at the end of each tour.
Saturday 7 August: ‘City Sightseeing’ buses pick up and drop off at the Victoria Rooms bus stop every half hour from 10.44am to 5.44pm. Conference delegates will be charged the discounted rate of £6 on presentation of their conference badge.

Special Public Event (sponsored by BBSRC and Nikon) Thursday 5 August
Recital Room 5.30-8.00pm. This event is open to the general public and will highlight areas of research featured at the Congress. The Lord Mayor of Bristol will officially open the event at 6.15pm. We hope that scientists will find time to join us at some point during this event, to meet and chat with the public, to explain about research on plant reproduction and the importance of it.

Conference Banquet: Friday 6 August 7.30pm
The Banquet will be held in the Great Hall of the University of Bristol. Entrance is via the Wills Memorial Tower, Queen’s Street. Entertainment by the world famous St Pauls Steel Band. Places are strictly limited; this should have been pre-booked. Some tickets are still available so if you wish to attend, please contact the Registration/Information desk by Wednesday 4th August to purchase a ticket.
Lectures: Auditorium

Posters: Victoria’s Room and rear ordatorium

Tea/coffee breaks: Theatre Bar and Lecture Room G12

Lunch: Theatre Bar and Lecture Room G12
   – picnic-style lunch to be collected

Speaker room/Meeting room: Harley Room

Public Session: Recital room

Trade Stands and Exhibitors: Lecture room G12
Organizing Committee:
Simon Hiscock (University of Bristol) Chair
Noni Franklin-Tong (University of Birmingham) Co-Chair
Hugh Dickinson (University of Oxford)
James Doughty (University of Bath)
Chris Franklin (University of Birmingham)
Pat Heslop-Harrison (University of Leicester)
Tim Robbins (University of Nottingham)
Rod Scott (University of Bath)
Dave Twell (University of Leicester)

Advisory Panel:
Fred Berger (Temasek Lifescience Laboratory, Singapore)
Ueli Grossniklaus (University of Zurich, Switzerland)
Teh-hui Kao (Penn State University, USA)
Bruce McClure (University of Missouri, USA)
Peter Schröglhofer (University of Vienna, Austria)

Assistance:
Alexandra Allen, Tom Batstone, Ed Byrne, Nic Charlton, Boo Lewis, Shanna Ludwig, Lizzy Ruszala, Aditi Singh, Chris Thorogood, Heather Whitney (University of Bristol)
Rachael Batchelor, James Higgins, Katie Wilkins (University of Birmingham)
Alex Topham (University of Bath)
Adoracion Zafra (Granada, Spain)
Silvia Perez Espona (University of London)
Will Goodall-Copestake (BAS)

International Association of Sexual Plant Reproduction Research (IASPRR) Executive:
Scott Russell (Norman, USA) President IASPRR
Erhard Kranz (Hamburg, Germany)
Anna Koltunow (Adelaide, Australia)
Ewa Szczuka (Lublin, Poland)
Christian Keijzer (Wageningen, The Netherlands)
G. Titova (St. Petersburg, Russia)
Rui Malho (Lisbon, Portugal)

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University of Bristol Botanic Garden
Lady Emily Smyth Research Station, University of Bristol
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Monday 2nd August
09.00 Registration desk opens
14.00 Welcome and introduction
14.30 Plenary Lecture
15.15 Scientific Session – Evolution of plant reproductive development (PSR1)
16.25 – 17.00 Refreshment break
17.00 – 18.35 Scientific Session - Evolution of plant reproductive development (PSR1) - continued
18.35 Welcome reception

Tuesday 3rd August
08.00 Registration desk opens
08.30 Scientific Session – Meiosis (PSR2)
10.35 – 11.05 Refreshment break
11.05 – 11.45 Scientific Session - Meiosis (PSR2) - continued
11.45 Scientific Session – Male gametophyte development (PSR3)
13.10 – 14.15 Lunch
14.15 – 15.10 Scientific Session - Male gametophyte development (PSR3) - continued
15.10 Scientific Session - Female gametophyte development (PSR3a)
16.20 – 16.50 Refreshment break
16.50 – 18.00 Scientific Session - Female gametophyte development (PSR3a) - continued
18.00 – 19.30 Poster Session 1

Wednesday 4th August
08.30 Registration/information desk opens
08.30 Scientific Session - Flowers: form and function (PSR4)
10.25 – 10.55 Refreshment break
10.55 – 11.50 Scientific Session - Flowers: form and function (PSR4) - continued
11.50 Scientific Session - Pollen tube growth modulation (PSR5)
13.00 – 14.00 Lunch
14.00 – 15.10 Scientific Session - Pollen tube growth modulation (PSR5) - continued
15.15 – 18.00 Tours
18.00 – 20.30 Gala Reception on board the SS Great Britain

Thursday 5th August
08.30 Registration/information desk opens
09.00 Scientific Session - Young Scientists Forum (PSR10)
10.45 – 11.15 Refreshment break
11.15 Scientific Session - Self-incompatibility (PSR6)
12.45 – 13.45 Lunch
13.45 – 14.40 Scientific Session - Self-incompatibility (PSR6) - continued
14.40 Scientific Session - Fertilization (PSR7)
16.05 – 16.35 Refreshment break
16.35 – 17.30 Scientific Session - Fertilization (PSR7) - continued
17.30 – 19.30 Poster Session 2
17.30 – 20.00 Public Engagement Event

Friday 6th August
08.30 Registration/information desk opens
08.30 Scientific Session - Seed and endosperm development (PSR8)
10.35 – 11.05 Refreshment break
11.05 – 12.10 Scientific Session - Seed and endosperm development (PSR8) - continued
12.10 Scientific Session - Apomixis (PSR9)
13.10 – 14.15 Lunch
14.15 – 15.50 Scientific Session - Apomixis (PSR9) - continued
15.50 – 16.20 Break
16.20 Final Plenary Lecture
17.05 Closing remarks
19.30 Conference Banquet, Awards, and Closing Ceremonies

Saturday 7th August
11.00 Tours
Programme
PSR1 - Evolution of Plant Reproductive Development

14:00 Welcome & Opening Formalities

Plenary 1
14:30 Prof Hugh Dickinson (University of Oxford)
Sex and Sustainability
[PSR1.1]

Chair: Hugh Dickinson

Plenary 2
15:15 Prof William E Friedman (University of Colorado)
An Evolutionary-Developmental Perspective on the Angiosperm Reproductive Syndrome
[PSR1.2]

16:00 Dr Paula J Rudall (Royal Botanic Gardens Kew)
Hydatellaceae: an emerging model for reproductive evolution in early angiosperms
[PSR1.3]

16:25 Break

17:00 Dr Charlie P Scutt (Ecole Normale Supérieure de Lyon)
The evolution of the angiosperm carpel involved the recruitment of a light-regulated genetic module.
[PSR1.4]

17:25 Dr J. Mark Cock (CNRS)
The brown alga Ectocarpus siliculosus, a new model system for reproductive biology
[PSR1.5]

17:40 Dr Julien B Bachelier (University of Colorado Boulder)
Female gametophyte development in Trimenia (Trimeniaceae): the survival of the fittest
[PSR1.6]

17:55 Dr Amal J Johnston (ETH Zurich and IPK-Gatersleben)
The RETNOBLASTOMA pathway: An Evolutionary module controlling plant life cycle
[PSR1.7]

18:10 Prof Peter R Crane (Yale University)
The Palaeontological Record of Angiosperm Flowers
[PSR1.8]
**GAMETOPHYTES**

**PSR2 - Meiosis**

**Plenary 3**

**08:30 Prof W Zacheus Cande (University of California)**  
Higher order chromosome structure during synapsis and pairing of maize meiotic chromosomes.  
[PSR2.1]

**09:15 Dr Christine Mezard (IJPB INRA Versailles France)**  
Contrasted patterns of meiotic crossover and non-crossover events at *Arabidopsis thaliana* recombination hotspots  
[PSR2.2]

**09:40 Dr Peter Schlögelhofer (University of Vienna MFPL)**  
Deep-sequencing of SPO11-associated DNA to detect meiotic recombination hotspots  
[PSR2.3]

**10:05 Dr Susan J Armstrong (University of Birmingham)**  
Why do the telomeres localise to the nuclear membrane in *Arabidopsis* prophase?  
[PSR2.4]

**10:20 Dr Ian R Henderson (University of Cambridge)**  
Describing meiotic recombination frequency in *Arabidopsis thaliana*  
[PSR2.5]

**10:35 Break**

**11:05 Dr James D Higgins (University of Birmingham)**  
Meiosis in Barley: why do crossovers predominantly occur in sub-telomeric regions of chromosomes?  
[PSR2.6]

**11:20 Prof Holger Puchta (Karlsruhe Institute of Technology)**  
Topoisomerase 3α mediated dissolution is required for meiotic recombination in *Arabidopsis*  
[PSR2.7]

**PSR3 - Male gametophyte development**

**Chair: David Twell**

**Plenary 4**

**11:45 Prof David Twell (University of Leicester)**  
Patterning and control in male gametophyte development  
[PSR3.1]

**12:30 Dr Jorg D Becker (Instituto Gulbenkian de Ciencia Plant Genomics Group 2780-901 Oeiras Portugal)**  
The Role of miRNAs During Germ Cell Specification in *Arabidopsis* Pollen  
[PSR3.2]

**12:55 Dr Gael E Le Trionnaire (Department of Biology University of Leicester)**  
MicroRNA expression profiles during *Arabidopsis thaliana* pollen development  
[PSR3.3]

**13:10 Lunch**

**14:15 Dr Zoe Wilson (University of Nottingham)**  
Systems approaches to dissect the role of the anther in pollen development  
[PSR3.4]

**14:40 Prof Dabing Zhang (School of Life science and Biotechnology)**  
*Carbon Starved Anther (CSA)* Encoding a MYB Domain Protein Regulates Sugar Partitioning Required for Rice Pollen Development  
[PSR3.5]

**14:55 Prof Vipen K Sawhney (University of Saskatchewan)**  
Proteomics of male sterility in tomato and *Brassica*  
[PSR3.6]
Tuesday, 03 August 2010

PSR3a - Female gametophyte development

Chair: David Twell

Plenary 5
15:10 Dr Gary N Drews (University of Utah)
Regulatory Networks Controlling Female Gametophyte Development
[PSR3a.1]

15:55 Dr Sharon Kessler (University of Zurich)
Penetrated plant cells: a common toolkit for pollen tube reception and powdery mildew infection.
[PSR3a.2]

16:20 Break

16:50 Prof Rita Groß-Hardt (ZMBP University of Tübingen)
Cell-cell communication in the female gametophyte
[PSR3a.3]

17:05 Dr Anja Schmidt (University of Zurich)
Cell-type specific transcriptome analysis to identify genes involved in key steps of plant reproduction
[PSR3a.4]

17:20 Dr Simona Masiero (Universita` degli Studi di Milano)
Sporophytic auxin controls the cross talk between generations during ovule development in Arabidopsis thaliana
[PSR3a.5]

17:35 Prof Wei-Cai Yang (Institute of Genetics and Developmental Biology Chinese Academy of Sciences)
Female gametophyte development in Arabidopsis: The role of RNA biogenesis
[PSR3a.6]

18:00 Poster Session 1

Poster Session abstracts for Tuesday, 03 August 2010 and Thursday 05 August 2010 are listed at the end of the programme (Page 11)
FLOWERS

PSR4 - Flowers: form and function
Chair: Simon Hiscock

Plenary 6
08:30 Prof Spencer C Barrett (University of Toronto)
Floral Biology of Evolutionary Transitions in Plant Sexual Systems
[PSR4.1]

09:15 Prof Philip M Gilmartin (Durham University)
Heteromorphic flower development in *Primula vulgaris*
[PSR4.2]

09:40 Dr Dong-Hui Wang (College of Life Sciences Peking University)
Ethylene perception is involved in female cucumber flower development
[PSR4.3]

09:55 Prof Kay Schneitz (TU Munich)
The protein kinase UNICORN Maintains the Layered Growth Pattern of Integuments and Represses the YABBY Gene *INNER NO OUTER* During Arabidopsis Ovule Development.
[PSR4.4]

10:10 Prof Maria Helena S Goldman (FFCLRP-University of Sao Paulo)
A Novel Tobacco Stigma/Style Gene, Sci1, Encoding A Lysine-Rich Protein That Controls Cell Division And Differentiation
[PSR4.5]

10:25 Break

10:55 Dr Beverley Glover (University of Cambridge)
Petal micromorphology and pollination
[PSR4.6]

11:20 Dr Juan De Dios Alche (Estación Experimental del Zaidín. CSIC)
Patterns of ROS distribution during flower development. The olive tree as a model.
[PSR4.7]

11:35 Dr Heather M Whitney (University of Bristol)
Petal iridescence as a floral cue for pollinators
[PSR4.8]

PSR5 - Pollen tube growth modulation
Chair: Noni Franklin-Tong; co-chair Bruce McClure

Plenary 7
11:50 Prof Bruce McClure (University of Missouri)
Early steps in S-RNase uptake
[PSR5.1]

12:35 Prof Chris Staiger (Purdue University)
Regulation of Actin Dynamics
[PSR5.2]

13:00 Lunch

14:00 Prof Maria Helena S Goldman (FFCLRP - University of Sao Paulo)
Functional characterization of a pistil-specific SABATH methyltransferase gene from *Nicotiana tabacum* L.
[PSR5.3]

14:15 Prof Rui M Malhó (FCUL Univ of Lisbon)
Asymmetric localization of Syntaxins regulates exocytic domains at the pollen tube apical zone
[PSR5.4]

14:30 Dr Robert T Grant-Downton (University of Oxford)
A novel endogenous small RNA system affects Arabidopsis pollen germination and pollen tube growth
[PSR5.5]
Wednesday, 04 August 2010

14:45 Prof José A Feijó (Universidade de Lisboa)
Of ion choreography and the regulation of apical cell growth: molecular partners and integrative theoretical models
[PSR5.6]

15:15 SPR Editorial Board Meeting (Harley Room)
Thursday, 05 August 2010

PSR10 - Young Scientists Forum

Chair: Simon Hiscock; co-chair Noni Franklin-Tong

09:00 Dr Susana M Coelho (CNRS-UPMC)
Genetic control of the switch between gametophyte and sporophyte generations in the brown alga *Ectocarpus*
[PSR10.1]

09:15 Miss Xiaoqi Feng (University of Oxford)
Cell lineage and tapetal fate in the *Arabidopsis* anther
[PSR10.2]

09:30 Mr Pedro T Lima (Instituto Gulbenkian de Ciencia Oeiras - Portugal)
D-serine is a putative calcium-channel ligand playing a role in gametophytic interactions
[PSR10.3]

09:45 Miss Jordan P Sinclair (Wayne State University)
Sex Ratios in Dioecious Plants: Theory and Trends
[PSR10.4]

10:00 Ms Alexandra M Allen (School of Biological Sciences University of Bristol)
Comparative analysis of pistil-transcriptomes reveals conserved and novel genes expressed in dry, wet and semi-dry stigmas
[PSR10.5]

10:15 Ms Darya Safavian (Cell and Systems Biology Dep.University of Toronto Toronto Ontario Canada)
Ultrastructural Analyses of Compatible and Self-Incompatible Pollinations in *Arabidopsis* ssp.
[PSR10.6]

10:30 Miss Katie A Wilkins (University of Birmingham)
Pollen tube acidification in the Self-Incompatible *Papaver rhoeas*
[PSR10.7]

10:45 Break

PSR6 - Self-incompatibility

Chair: Tim Robbins; co-chair Teh-hui Kao

Plenary 8

11:15 Prof Teh-hui Kao (Penn State University)
S-RNase-based self-incompatibility in *Petunia*
[PSR6.1]

12:00 Prof Noni Franklin-Tong (Univ Birmingham)
Self-incompatibility signalling networks: conversations that tell "self" pollen to commit suicide
[PSR6.2]

12:25 Dr Katsuyuki Kakeda (Graduate School of Bioresources Mie University)
Molecular and genomic analysis of the S locus region in wild barley, *Hordeum bulbosum*
[PSR6.3]

12:45 Lunch

13:45 Prof Seiji Takayama (Nara Institute of Science and Technology)
Molecular mechanisms of self-incompatibility in the Brassicaceae
[PSR6.4]

14:10 Prof Kentaro K Shimizu (University of Zurich Institute of Plant Biology)
Evolution of self-compatibility in *Arabidopsis* by a mutation in the male specificity gene
[PSR6.5]

14:25 Dr Barbara K Mable (University of Glasgow)
Mating System Evolution in *Arabidopsis lyrata*
[PSR6.6]
Thursday, 05 August 2010

PSR7 - Fertilization

Chair: James Doughty

Plenary 9
14:40 Prof Tetsuya Higashiyama (Nagoya University)
Live Cell Analysis of Pollen Tube Guidance and Double Fertilization
[PSR7.1]

15:25 Prof Thomas Dresselhaus (Cell Biology and Plant Biochemistry University of Regensburg)
The role of polymorphic proteins for pollen tube growth, guidance and burst in maize
[PSR7.2]

15:50 Dr Stefanie Sprunck (University of Regensburg Germany)
Small cysteine-rich proteins play key roles during gamete interaction
[PSR7.3]

16:05 Break

16:35 Dr Leonor C Boavida (Instituto Gulbenkian de Ciencia Plant Genomics Oeiras Portugal)
Identification and Characterization of Gamete-Expressed Proteins with Potential Fusogenic Roles during Double Fertilization
[PSR7.4]

16:50 Dr Tatsuya Tsukamoto (University of Arizona)
A role for LORELEI, a putative glycosylphosphatidylinositol-anchored protein, in Arabidopsis thaliana double fertilization and early seed development
[PSR7.5]

17:05 Scott D. Russell (Department of Botany and Microbiology, University of Oklahoma)
Male gamete biology and double fertilization
[PSR7.12]

17:30 Poster Session 2

Poster Session abstracts for Tuesday, 03 August 2010 and Thursday 05 August 2010 are listed at the end of the programme (Page 11)

17:30 Public Event: Flower Power for the 21st Century (sponsored by BBSRC and Nikon)
SEEDS

PSR8 - Seed and endosperm development

Chair: Rod Scott; co-chair Fred Berger

Plenary 10
08:30 Dr Philip W Becraft (Iowa State University)
Genetic regulation of aleurone cell fate in maize endosperm development.
[PSR8.1]

09:15 Prof Claudia Köhler (ETH Zurich)
Postzygotic reproductive isolation mechanisms acting in the endosperm
[PSR8.2]

09:40 Dr Jose (Pepe) Gutierrez-Marcos (University of Warwick)
Regulation of seed development through the interplay between membrane receptors and secreted peptide ligands
[PSR8.0]

10:05 Dr Stefan Scholten (University of hamburg)
Epigenetic resetting of a gene imprinted in plant embryos
[PSR8.3]

10:20 Dr Paul E Grini (University of Oslo)
Genetic Dissection of Imprinting in Seed Development
[PSR8.4]

10:35 Break

11:05 Prof Rod Scott (University of Bath)
Maternal control of endosperm development
[PSR8.16]

11:30 Dr Andrew I Stoute (Rothamsted Research)
Mechanisms underlying seed size variation in Brassicaceae
[PSR8.5]

11:45 Prof Wolfgang Lukowitz (University of Georgia)
Cell fate decisions in the early Arabidopsis embryo
[PSR8.6]

PSR9 - Apomixis

Chair: Rod Scott; co-chair Fred Berger

Plenary 11
12:10 Anna Kultonow (CSIRO Plant Industry)
Apomixis in Hieracium: Mendel’s nemesis
[PSR9.0]

12:55 Dr John Carman (Utah State University)
Ancient Alternatives to Sex
[PSR9.1]

13:10 Lunch

14:15 Prof Frederic Berger (Temasek Lifescience Laboratory)
Becoming apomictic: Lessons from Arabidopsis.
[PSR9.2]

14:40 Dr Helmut W Baumlein (IPK Gatersleben)
Identification and genetic analysis of the APOSPORY locus in Hypericum perforatum L
[PSR9.3]

14:55 Dr Raphael Mercier (INRA IJPB)
Turning meiosis into mitosis
[PSR9.4]

15:10 Dr Amal J Johnston (University of Zurich and IPK-Gatersleben)
Epigenetic control of apomixis in Boechera species
[PSR9.5]
Friday, 06 August 2010

15:25 Dr Peter J Van Dijk (Keygene N.V.)
50 years of research on the genetics of apomixis in *Taraxacum*
[PSR9.6]

15:50 Break

Plenary 12
16:20 Prof Elizabeth Lord (University of California Riverside)
Change And Continuity In The Field Of Plant Reproduction, 1975-2010: A Personal Perspective
[PSR9.7]

17:05 Closing Remarks
Abstracts for poster sessions on Tuesday 3rd and Thursday 5th August 2010

PSR1

Dr Liubov V Buglova (Central Siberian botanical garden)
Secondary egg apparatus forming of Trollius ledebourii
[PSR1.9]

Miss Szilvia Németh (Corvinus University of Budapest)
Influence of the environmental conditions on flower bud initiation and beginning development in apricot genotypes
[PSR1.10]

Mrs Ewa Szczuka (Department of Plant Anatomy and Cytology MCS University)
Arabinogalactan proteins in developing male and female generative organs of Bellis perennis L.
[PSR1.11]

Mr Jose I Hormaza (IHSM la Mayora - CSIC)
Microscopic and molecular characterization of a seedless genotype of Annona squamosa (Annonaceae) reveals the conservation of a critical regulator of ovule development between eudicots and basal angiosperms
[PSR1.12]

Prof Shunong BAI (Peking university)
Why ethylene is involved in selectively promotion of female flower development in cucumber?
[PSR1.14]

Dr Marian Bemer (Radboud University Nijmegen)
FRUITFULL and its targets in Arabidopsis and tomato fruit development
[PSR1.15]

Dr Farkhondeh Rezanejad (Department of Biology shahid Bahounar University, Kerman Iran)
Changes in the contents of lycopene and phenolic compounds in tomato fruit at different ripening stages, as affected by postharvest application of UV-B radiation
[PSR1.16]

Mr Rodrigo S Pereira (FFCLRPUSP)
Plant embryo-galler interaction: the fine-tuned optimisation on the fig-fig wasp mutualism
[PSR1.18]

Mr Adriano Silvério (UFRGS)
Anther and pollen wall development in Brazilian Passiflora species.
[PSR1.19]

Mr Alok Arun (Station BiologiquePierre and Marie Curie University ParisVI)
Map-based cloning of the OUROBOROUS gene controlling alternation of generation in the brown algae Ectocarpus siliculosus
[PSR1.20]

Ms Katarzyna Plasun (Leibniz Institute of Plant Genetics and Crop Plant Research (IPK) Gatersleben)
Arabidopsis plantlets obtained via anther culture originate from somatic cells
[PSR1.21]

Ms Diva M Dusi (EMBRAPA Genetic Resources and Biotechnology)
Brachiaria spp. in vivo and in vitro anther development - SERK (SOMATIC EMBRYOGENESIS RECEPTOR-LIKE KINASE) gene expression
[PSR1.22]

PSR2

Mr Mohan Prem Anand Marimuthu (Centre for Cellular and Molecular Biology)
Threshold Dependent Control of Haploid Gamete Formation by the dyad Gene of Arabidopsis
[PSR2.8]

Dr Lynette Brownfield (ETH Zurich)
Mechanisms of unreduced gamete formation during male meiosis
[PSR2.10]

Dr Nooshin Naghsh (Department of biology Islamic azad university falavarjan branch Isfahan Iran)
Investigation of nanosilver inhibitory effects as a new nanotarget on meiosis in Aspergillus niger
[PSR2.11]
Abstracts for poster sessions

Dr Nooshin Naghsh (Department of biology Islamic azad university falavarjan branch Isfahan iran)
Antifungal activity of flowering tropss Eucalyptus camaldulensis extract and nanosilver on meiosis of Aspergillus niger
[PSR2.12]

Dr Go Suzuki (Osaka Kyoiku University)
Characterization of meiosis-preferentially expressing genes in rice
[PSR2.13]

Prof Chris Franklin (University of Birmingham)
ASY3 a novel chromosome axis protein is required for interhomolog recombination and synapsis during meiosis in Arabidopsis.
[PSR2.14]

Dr James D Higgins (University of Birmingham)
Meiosis in Barley: the relationship between crossover distribution and chromatin organization
[PSR2.15]

Miss Milene De Figueiredo (Uenfctalmgv)
Flower bud size and microsporogenesis in papaya (Carica papaya L.).
[PSR2.16]

Mrs TELMA N S PEREIRA (UENFCCTALMGV)
Comparative meiotic study in hermaphrodite and male papaya plants (Carica papaya L.)
[PSR2.17]

Miss Sarah J Smith (University of Birmingham)
Condensin is required for chromosome remodelling during meiosis in Arabidopsis
[PSR2.18]

PSR3

Dr Maria Suárez-Cervera (University of Barcelona Faculty of Pharmacy Barcelona Spain)
Role of the Ole e 1-like protein during microsporogenesis in Fraxinus angustifolia (Oleaceae) pollen grains
[PSR3.7]

Dr Nina Gabarayeva (Komarov Botanical Institute)
Wall development of male gametophyte: self-assembling micellar system
[PSR3.8]

Miss Mahsa Shafighi (Islamic Azad University-Falavarjan Branch-Young Researchers Club)
Studying the effect of environmental agents on pollen grains structure of Chenopodium album L
[PSR3.9]

Miss Izabela Pasternak (Department of Gene Expression Institute of Molecular Biology Adam Mickiewicz University in Poznan)
New genes specifically expressed during antheridia development of male individuals in dioecious liverwort Pellia endiviifolia subspecies B
[PSR3.10]

Prof Shafiq U Rehman (Kohat University of Science Technology (KUST))
Miraculous plant derived smoke increase pollen performance
[PSR3.11]

Dr Li Huang (Laboratory of Cell Molecular Biology Institute of Vegetable Science Zhejiang University of China)
Three members of the polygalacturonase gene family from Brassica campestris are required for pollen development
[PSR3.12]

Mr Filipe Borges (Instituto Gulbenkian de Ciência)
Fluorescent-Activated Male Germ Unit Sorting in Arabidopsis thaliana
[PSR3.13]

Prof Dabing Zhang (School of Life science and Biotechnology)
The ARBITER MICROSPORES (AMS) Regulatory Network is Required for Postmeiotic Male Reproductive Development in Arabidopsis thaliana
[PSR3.14]

Prof Dabing Zhang (School of Life science and Biotechnology Shanghai Jiao Tong University)
Cytochrome P450 family member CYP704B2 Catalyzes the ω-Hydroxylation of Fatty Acids and is Required for Anther Cutin Biosynthesis and Pollen Exine Formation in Rice
[PSR3.15]

Dr David Honys (Institute of Experimental Botany ASCR)
Functional characterization of arabis pollen transcription factors
[PSR3.16]
**Abstracts for poster sessions**

**Dr Farkhondeh Rezanejad (Department of Biology shahid Bahounar University, Kerman Iran)**
Variation of pollen flavonoid content, Chalcone Synthase gene expression, pollen germination and pollen tube growth in response to enhanced UV-B radiation in Petunia hybrid.
[PSR3.17]

**Dr Leila Amjad (Department of biology Islamic azad university falavarjan branch Isfahan iran)**
Microsporogenesis and pollen development in Achillea wilhelmsii
[PSR3.18]

**Mrs Anna Smirnova (Moscow State University)**
Involvement of reactive oxygen species in pollen development
[PSR3.19]

**Mr Nico A De Storme (University of Ghent)**
Genetic factors controlling sexual polyploidization - forward genetics in Arabidopsis thaliana
[PSR3.20]

**Dr Carolina Carrizo Garcia (Instituto Multidisciplinario de Biología Vegetal)**
Interconversions of reserve carbohydrates from pollen maturation to rehydration in a chili pepper
[PSR3.21]

**Mr Francisco F Nunez de Caceres Gonzalez (University of Nottingham)**
Genetic manipulation of agronomically important traits in Lilium
[PSR3.22]

**Dr Gabriel A León (Universidad Andres Bello)**
Targeted Identification and Characterization of Genes Required for Pollen Development, Germination and Tube Elongation in Arabidopsis thaliana
[PSR3.23]

**Miss Lucia Hozová (Institute of Experimental Botany of the AS CR Prague)**
Glutathione S-transferase fusion proteins as an affinity reagent for rapid isolation of specific sequence transcription factors
[PSR3.24]

**Mr David Kradolfer (ETH Zürich)**
Elucidating mechanisms of unreduced male gamete formation
[PSR3.25]

**Miss Martha Y Gondwe (University of nottingham)**
Analysis of tapetally expressed genes during Arabidopsis thaliana pollen development [PSR3.26]

**Dr Sofia Kourmpetli (University of Leicester)**
Investigating the role of microRNA pathways during pollen development in Arabidopsis thaliana
[PSR3.27]

**Mr JOSE FERNANDEZ (UNIVERSITY OF NOTTINGHAM)**
Pollen development in barley.
[PSR3.28]

**Mrs TELMA N S PEREIRA (UENFCCCTALMGV)**
Pollen characterization of seven Capsicum species (Solanaceae)
[PSR3.29]

**Miss Hoda Khatab (University of Leicester)**
Duo pollen 4 – a novel gametophytic mutant blocking male germ cell division in Arabidopsis
[PSR3.30]

**Mr Michael Borg (University of Leicester)**
Analysis of the DUO1 regulatory network controlling male germline development
[PSR3.31]

**Dr Caiyun Yang (University of Nottingham)**
Analysing the regulation of endothecium development and secondary thickening in anther dehiscence
[PSR3.32]

**Miss Priscila A Cortez (Unicamp)**
Male sterility in Miconia (Melastomataceae) species - a morphological approach
[PSR3.33]

**Dr Said Hafidh (Institute of Experimental Botany)**
EPP particles mediate mRNA storage in the tobacco male gametophyte
[PSR3.34]
Abstracts for poster sessions

Miss Aurora I Idilli (Università degli studi di Milano)
Effects of the microtubule inhibitor Nocodazole on endocytosis in pollen tubes of Nicotiana tabacum [PSR3.35]

Miss Aurora I Idilli (Università degli studi di Milano)
Inhibition of actin polymerization by LatB affects endocytosis and secretion both in the apex and in the subapical regions of tobacco pollen tubes [PSR3.36]

PSR3a

Dr Helmut W Baumlein (IPK Gatersleben)
Plant RKD transcription factors reprogram sporophytic cells towards an egg cell fate [PSR3a.7]

Mr Stefano Bencivenga (Università degli studi di Milano)
The role of local auxin biosynthesis in ovule development in Arabidopsis thaliana [PSR3a.8]

Miss Olga Kirioukhova (University of Zurich)
A novel Arabidopsis orthologue of Inner Centromere Protein is essential for reproductive development [PSR3a.9]

Ms Lucija Soljic (University of Regensburg)
Isolation of single cells from the Arabidopsis embryo sac: same origin, distinct molecular profiles [PSR3a.10]

PSR4

Mr Heiko Mibus (Leibniz University Hannover)
CLONING AND CHARACTERISATION OF APETALA1 LIKE GENES IN DIFFERENT FLOWER TYPES OF ROSA HYBRIDA L. [PSR4.9]

Dr Nooshin Naghsh (Department of biology Islamic azad university falavarjan branch Isfahan Iran)
Antimicrobial activity of flowering trops Eucalyptus camaldulensis extract and nanosilver particles in E.coli [PSR4.10]

Dr Farkhondeh Rezanejad (Department of biology shahid bahounar univ. Kerman Iran)
Biochemical studies of dimorph anthers in Lagerstroemia indica (Lythraceae) [PSR4.11]

Prof Maria Herrero (EEAD-CSIC)
Flower development and winter dormancy in apricot (Prunus armeniaca) [PSR4.12]

Dr Leila Amjad (Department of biology Islamic azad university falavarjan branch Isfahan Iran)
Antimicrobial activity of essential oils of Achillea wilhelmsii [PSR4.13]

Mrs Simone P Teixeira (University of Sao Paulo)
Elucidating enigmatic floral issues in Copaifera langsdorffii Desf. (Leguminosae, Caesalpinioideae) [PSR4.14]

Mrs Simone P Teixeira (University of Sao Paulo)
Elucidating enigmatic floral issues in Copaifera langsdorffii Desf. (Leguminosae, Caesalpinioideae) [PSR4.15]

Mrs Ursula Ladinig (University of Innsbruck)
Frost survival of high mountain plants during sexual reproduction [PSR4.16]

Miss Juliana V Paulino (Universidade de São Paulo)
Floral development of Inga congesta and Swartzia dipetala and its implications for multicarpelly in Leguminosae [PSR4.17]

Mrs Einat Shemesh (The Robert H. Smith Faculty of Agriculture Food and Environment The Hebrew University of Jerusalem)
Florogenesis in garlic: developmental barriers and means for fertility restoration [PSR4.18]
Miss Adoracion Zafra (Estacion Experimental del Zaidin Consejo Superior de Investigaciones Cientificas)
Detection of peroxidase activity in olive (olea europaea L.) Floral organs
[PSR4.19]

Dr Silvia R Machado (Instituto de Biociências UNESP - Univ Estadual Paulista Campus de Botucatu Departamento de Botân)
Floral visitors, nectar production, and nectar carbohydrate composition of Ananas ananassoides (Bromeliaceae)
[PSR4.20]

Dr Elza Guimarães (Instituto de Biociências de Botucatu UNESP)
A peculiar pollination mode involving the slipping and falling of euglossine males in Gongora bufonia Lindl. (Orchidaceae) flowers
[PSR4.21]

Mr Silvia Machado (Instituto de Biociências Unesp Botucatu SP Brazil)
Secretory structures and floral visitors of Croton glandulosus (Euphorbiaceae)
[PSR4.22]

PSR5

Dr Leila Amjad (Assistant professor Department of biology)
Comparative studies of tapetums, pollens and flowers development in Chenopodium album L. and Chenopodium botrys, L.
[PSR5.7]

Ms Maria Breygina (Lomonosov Moscow State University)
The role of transmembrane anion transport in pollen germination and tube growth
[PSR5.8]

Ms Carrie A Eberle (Univeristy of Minnesota)
Nicotiana tabacum style-localized proteins control interspecific incompatibility.
[PSR5.9]

Prof Anu Singh-Cundy (Western Washington University)
Characterization and functional analysis of PhTTS, a proline-rich extracellular protein from Petunia hybrida pistils
[PSR5.10]

Mr Juan M Losada (Aula Dei Experimental Station-CSIC)
Intraovarian pollen tube growth in the apple flower: the obturator
[PSR5.11]

Dr Martin Potocký (Institute of Experimental Botany ASCR Prague Czech Republic)
Intersection of signalling pathways in tobacco pollen tube growth: multiple phospholipids and reactive oxygen species regulate plant tip growth
[PSR5.12]

Dr Adela Olmedilla (Estación Experimental del Zaidín (CSIC))
Peroxynitrite mediates programmed cell death induced by pollen-pistil interaction in Olea europeaea L.
[PSR5.13]

Dr REIAZ U REHMAN (Universidade de Lisboa Faculdade de Ciências BioFIG 1749-016 Lisboa Portugal)
Cyclic nucleotide-gated channels CNGC7 and CNGCB8 are required for pollen tube growth and fertilization
[PSR5.14]

Dr Johanna Wagner (Institute of Botany University of Innsbruck)
The progamic phase in high mountain plants: from pollination to fertilization in the cold
[PSR5.15]

Miss Ana Marta Pereira (Departamento de Biologia Faculdade de Ciências da Universidade do Porto)
The role of individual AGPs in pollen tube guidance and sperm cell delivery
[PSR5.16]

Miss Adriana Montes (Swedish University of Agricultural Sciences (SLU))
Markers for F-actin: In - vivo visualization of the cytoskeleton dynamics in Nicotiana tabacum pollen tubes
[PSR5.17]

Dr Carolina Carrizo Garcia (Instituto Multidisciplinario de Biologia Vegetal)
Metabolization of carbohydrates and invertases activities during in vitro pollen tube growth in a chili pepper
[PSR5.18]

Mr Krzysztof Zienkiewicz (CSIC)
Identification and characterization of a novel caleosin from olive (Olea europaea L.) pollen
[PSR5.19]
Abstracts for poster sessions

Mr Antonio J Castro (CSIC)
New insights into the function of the plant stigma secretome: a proteomic study
[PSR5.20]

Miss Jia Sun (Swedish University of Agricultural Sciences (SLU))
Characterization of the role of Nt-Ric, a novel putative effector of the Rho GTPase Nt-Rac5, in the regulation of polar pollen tube growth
[PSR5.21]

Dr Anna Edlund (Lafayette College)
Germination behaviors across the Brassicaceae: Pollen tube escape
[PSR5.22]

Dr Magnus Eklund (Swedish University of Agricultural Sciences)
UP1 is a novel RAC/ROP effector in tobacco pollen tubes
[PSR5.23]

Dr José Pissarra (BioFIG and Faculty of Sciences - University of Porto)
Cardosins expression and accumulation pattern in flowers of Arabidopsis thaliana transgenic lines
[PSR5.24]

PSR6

Ms Asuka Uchida (University of Miyakazaki)
Proteome analysis of expressed proteins in the different stage of the style of Citrus species.
[PSR6.7]

Mr Cristina P Vieira (IBMC- university of Porto)
Multiple pollen gametophytic self-incompatibility genes in Sorbus aucuparia (Maloideae): evidence and implications
[PSR6.8]

Mr Andrew Tedder (University of Glasgow)
Evidence for mating system variation in Arabis alpina.
[PSR6.9]

Dr Emily Indriolo (University of Toronto)
The Role of the Exocyst Complex in Compatible Pollinations in Arabidopsis thaliana.
[PSR6.10]

Dr Zsuzsanna Bekefi (Corvinus University of Budapest Dept. of Pomology)
S-allele characterisation of the local types of ‘Schneiders Späte Knorpelkirsche’ sweet cherry cultivar in Hungary
[PSR6.11]

Dr Susanne Barth (Teagasc Crops Research Centre)
Investigating the role of calcium in the Lolium perenne self-incompatibility response
[PSR6.12]

Mrs Telma Nair S Pereira (Uenfctalmgv)
Histological analysis of pollen-pistil interactions in sour passion fruit.
[PSR6.13]

Dr Cruz-Garcia Felipe (Universidad Nacional Autonoma De Mexico)
NaStEP: a stigmatic proteinase inhibitor-like essential to pollen rejection and potential positive regulator of HT-B stability in Nicotiana
[PSR6.14]

Mr Masaaki Osaka (Graduate School of Life Sciences Tohoku University)
Identification and mapping of novel self-incompatibility genes in Brassica rapa L.
[PSR6.15]

Dr Encarnación Ortega (CEBAS-CSIC)
Analysis of (in)compatible pollen-pistil interactions in almond (Prunus dulcis) by 2D-DIGE and HPLC-MS/MS
[PSR6.16]

Mr JOSE L. SILVA (UNIVERSIDAD DE SEVILLA)
Reproductive systems in the populations of Sonchus Section Pustulati (Asteraceae)
[PSR6.17]

Dr Carlos Romero (Instituto Valenciano de Investigaciones Agrarias)
‘Katy’, A Self-Compatible Apricot Cultivar Bearing A Pollen Part-Mutation Unlinked To The S-Locus
[PSR6.18]
Abstracts for poster sessions

Dr Jinhong Li (Durham University)
Mapping the Primula vulgaris S locus
[PSR6.19]

Dr María Ángeles Ortiz (University of Sevilla)
Heritability of self-compatibility in Hypochaeris salzmanniana DC.
[PSR6.20]

Dr Ken-ichi Kubo (Nara Institute of Science and Technology)
Analysis of S-locus F-box genes in Petunia
[PSR6.21]

Mr Sanhong Wang (Graduate School of Horticulture Chiba University Matsudo Chiba 271-8510 Japan)
S-RNase and SFBB family F-box genes are located in sub-telomeric and heterochromatic chromosomal region in apple
[PSR6.22]

Miss Mai Minamikawa (Chiba University)
Characterization of the F-box gene cluster linked to the S-locus of apple
[PSR6.23]

Prof Jorge Mariath (UFRGS - BRASIL)
Developmental and cytogenetic analyses of pollen sterility in Valeriana scandens L.
[PSR6.24]

Dr Hiroyuki Kakui (Nagoya University)
Analysis of pollen-part S specificity of S4sm, a stylar-part self-compatible S haplotype in Japanese pear
[PSR6.25]

Dr Javier Andres Juarez-Diaz (University of Birmingham)
The Papaver self-incompatibility pollen S-determinant, PrpS, is functional in Arabidopsis
[PSR6.26]

Mr Rafal Czyzyk (University of Nottingham)
Evidence for a genetic modifier of self-incompatibility linked to the S-locus in Petunia hybrida
[PSR6.27]

Mr Daniel Dzidzienyo (University of Nottingham)
Genetic manipulation of self-incompatibility in diploid potato species
[PSR6.28]

PSR7

Miss Jingjing Jiang (Institute of vegetable science of Zhejiang University)
In vivo identification of the genes expression during pollination and fertilization in Brassica campestris ssp. chinensis
[PSR7.6]

Mr Hui Qiao Tian (Xiamen University)
Isolation of eggs and synergids in Ceiba speciosa
[PSR7.7]

Mr Hui Qiao Tian (Xiamen University)
Recent Progress in Research of the Mechanism of Fertilization in Angiosperms
[PSR7.8]

Miss Jiménez-Durán Karina (UNAM)
Programmed cellular death controls the formation of the endosperm in Marathrum schiedeanum (Podostemaceae)
[PSR7.9]

Mr Keisuke Sudo (Graduate School of Life Sciences Tohoku University)
UDP-glucose pyrophosphorylase is rate limiting in vegetative and reproductive phases in Arabidopsis thaliana.
[PSR7.10]

Mr Julio Carlyle M Rodrigues (Plant Reproduction Laboratory Embrapa Genetic Resources and Biotechnology)
Differential expression of two homologues of the Polycomb group genes FERTILIZATION INDEPENDENT ENDOSPERM (FIE) and ENHANCER OF ZESTE (EzSET) in male reproductive tissues of apomictic Brachiaria brizantha
[PSR7.11]
Abstracts for poster sessions

PSR8

Dr Evgenii Levites (Institute Cytology and Genetics Siberian Division of the Russian Academy of Sciences)
Effect of Triton X-100 and colchicine on expression of enzyme genes in nongerminated sugarbeet seeds
[PSR8.7]

Dr Evgenii Levites (Institute Cytology and Genetics Siberian Division of the Russian Academy of Sciences)
Effect of Triton X-100 and colchicine on expression of enzyme genes in nongerminated sugarbeet seeds
[PSR8.8]

Miss Katarzyna Gacek (University of Warwick)
Receptor kinase-mediated regulation of seed size in Arabidopsis
[PSR8.9]

Mr Manoj Kumar (Institut de Biologie Moléculaire des Plantes du CNRS Strasbourg)
Nuclear divisions during the syncytial phase of Arabidopsis endosperm development are controlled by B1-type cyclins
[PSR8.10]

Prof Yunhai Li (Institute of Genetics and Developmental Biology, Chinese academy of Science china)
Control of Final Seed Size in Arabidopsis
[PSR8.11]

Dr Katalin Jäger (Agricultural Institute of the Hungarian Academy of Sciences)
Embryo and endosperm development in wheat (Triticum aestivum L.) kernels subjected to drought stress
[PSR8.12]

Miss Eleanor Marshall (University of Warwick)
Co-ordination of embryo and endosperm development in Arabidopsis thaliana by small secreted cysteine-rich (SCR) peptides
[PSR8.13]

Mr Alexander Topham (Department of Biology and Biochemistry University of Bath)
The Role and Regulation of the Arabidopsis Imprintome
[PSR8.14]

Dr Sushma Tiwari (Department of Biology and Biochemistry University of Bath)
MATERNALLY EXPRESSED PAB C-TERMINAL (MPC)
[PSR8.15]

PSR9

Dr Kitty Vijverberg (University of Nijmegen)
Characterization of the DIPLOSPOROUS-chromosomal region in Taraxacum
[PSR9.8]

Dr Svetlana Kirikovich (Institute Cytology and Genetics Siberian Division of the Russian Academy of Sciences)
Effect of Triton X-100 on expression of enzyme locus Gpi2 in sugarbeet agamospermous progeny
[PSR9.9]

Dr Diego H Hojsgaard (University of Vienna)
Effects of hybridization and polyploidy on the embryo sac development in the apomictic Ranunculus auricomus complex
[PSR9.10]

Ms Shanna Ludwig (University of Bristol)
Breeding systems, pollen flow, and continuing evolution in Avon Gorge Sorbus (whitebeams, rowans, and service trees)
[PSR9.11]

Miss Glaucia B Cabral (USP - CENA)
Transient gene expression in apomictic Brachiaria brizantha via Agrobacterium
[PSR9.12]

Dr Fulvio Pupilli (CNR-Institute of Plant Genetics Perugia ITALY)
Identification and characterisation of apomixis-linked genes in Paspalum simplex
[PSR9.13]

Dr Jochen Kumlehn (Leibniz Institute of Plant Genetics and Crop Plant Research (IPK) Gatersleben)
Genetic transformation of Boechera polyantha (formerly B. holboellii) - the way forward to functionally characterize genes involved in apomictic reproduction
[PSR9.14]
Ms Vera T Carneiro (EMBRAPA Genetic Resources and Biotechnology)
Characterization of Brachiaria brizantha genes expressed during ovary development
[PSR9.15]

Mr Petra Lithe (Palacky University Department of Botany Faculty of Science Czech Republic)
How sexual are asexual brambles?
[PSR9.16]