

PROGRAMME

Venue of the Congress: Budapest Congress & World Trade Center
1123 Budapest
Jagello út 1-3.

Tuesday, 11 July

13⁰⁰ – 19³⁰ **Registration**
Poster mounting
Aula (Assembly Hall)

19⁰⁰ – 21⁰⁰ **Welcome Cocktail**
Aula (Assembly Hall)

Wednesday, 12 July

8⁰⁰ – 17³⁰ **Registration**
Aula (Assembly Hall)

8⁰⁰ – 8³⁰ **Poster mounting**
Aula (Assembly Hall)

Opening Room “Bartók”

8³⁰ – 9⁰⁰ *Beáta BARNABÁS and Zoltán BEDŐ*

Plenary Lectures

Chair: *Zoltán BEDŐ*

9⁰⁰ – 9⁴⁰ *Dénes DUDITS*

Basic molecular mechanisms of cell cycle regulation and activation of wheat egg cells

9⁴⁰ – 10²⁰ *Thomas DRESSELHAUS, Marton, M.L., Gebert, M., Leljak-Levanic, D., Bellmann, B., Amien, S., Sprunck, S.*

The importance of cell-cell communication and polarity for double fertilization

10²⁰ – 10⁴⁰ **Coffee Break**
Aula (Assembly Hall)

Chair: *Beáta BARNABÁS*

10⁴⁰ – 11²⁰ *Ueli GROSSNIKLAUS, Célia Baroux, Valeria Gagliardini, Damian Page, Claudia Köhler, Charles Spillane*

Maternal control of seed development through an epigenetic regulatory cascade

11²⁰ – 12⁰⁰ *Pedro Castanho Coelho and Rui MALHÓ*

Correlative analysis of apical secretion and $[Ca^{2+}]_C$ in pollen tube growth and reorientation

12⁰⁰ – 13³⁰ **Lunch**
Arcade

Sessions: [Male gametophyte development](#)
[Female gametophyte development](#)

Chair: *Scott D. RUSSELL*

Keynote Lectures

13³⁰ – 14⁰⁰ *David TWELL*

Genetic analysis of cell divisions during male germ line development

14⁰⁰ – 14³⁰ *Lucia COLOMBO*

Molecular control of ovule development in Arabidopsis

Oral Presentations

14³⁰ – 14⁵⁰ *Juan De Dios ALCHE, Jiménez-López, J.C., Morales, S., Castro, A.J., Rodríguez-García, M.I.*

Characterization of profilin polymorphism in the pollen of olive (*Olea europaea* L.) cultivars

14⁵⁰ – 15¹⁰ *Marcio ALVES-FERREIRA, F. Wellmer, A. Banhara, and E.M. Meyerowitz*

Identification and characterizations of new genes critical to normal *Arabidopsis thaliana* stamen development by microarray and functional analysis of flower mutants *apetala3*, *sporocyteless* and *male-sterile1*

15¹⁰ – 15³⁰ *Antonio J. CASTRO, Hamman-Khalifa, A.M., Jiménez-López, J.C., Rodríguez-García, M.I., Alché, J.D.*

Polymorphism of the olive pollen allergen Ole e 1 and its biological implications

15³⁰ – 15⁵⁰ **Coffee Break**
Aula (Assembly Hall)

Chair: *David TWELL*

15⁵⁰ – 16¹⁰ *Sanghyun Lee, Hyunsik Yum, and Yong-Yoon CHUNG*

OsCP1, an anther-specific cysteine protease, is required for pollen development

- 16¹⁰ – 16³⁰ *Silvia COIMBRA, Pereira, L.G., Jones, B., Costa, M. and Sottomayor, M.*
Agp 6 and Agp 11 in *Arabidopsis thaliana* pollen development
- 16³⁰ – 16⁵⁰ *John OWENS*
Conifer sperm
- 16⁵⁰ – 17¹⁰ *Viktor ZARSKY, Potocky, M., Jones, M., Cole, R., Bezvoda, R., Synek L., Pickova D., Fowler, J., Smirnoff N., Cvrckova F., Hala M.*
Proteins and lipids regulating polarized pollen tube expansion
- 17¹⁰ – 17³⁰ *Simona MASIERO, Monica Colombo, Silvia Vanzulli, Paolo Lardelli, Martin Kater and Lucia Colombo*
ISIDE solves the enigma of type I MADS-box factors
- 17³⁰ – 17⁵⁰ *Sushma TIWARI, Spielman, M., Schulz, R., Oakey, R., Scott, R. J.*
Transcriptional profile analysis of endosperm proliferation in *Arabidopsis*
- 18³⁰ – **Transfer to the boat**
Meeting point: Assembly Hall of the Congress Center
- 19⁰⁰ – 21⁰⁰ **Boat trip on the Danube (optional) Budapest**
Admission: with tickets
Bus transfer to the congress hotels after the boat trip

Thursday, 13 July

8⁰⁰ – 12⁰⁰ **Registration**
Aula (Assembly Hall)

Sessions: **Pollination and pollen-pistil interaction**
Incompatibility
Room “Bartók”

Chair: *Rui MALHÓ*

Keynote Lecture

8³⁰ – 9⁰⁰ *Gou, X.P., Wei, X.P., Yuan, T., Scott D. RUSSELL*

Gene expression in flowering plant sperm cells

Oral Presentations

9⁰⁰ – 9²⁰ *Quiapim, A.C., Malavazi, I., Brito, M.S., daSilva, I., Molfetta, J.B., Goldman, G.H.,
Maria Helena GOLDMAN*

Large scale analysis of gene expression in the tobacco stigmas/styles – The TOBEST project

9²⁰ – 9⁴⁰ *Stephanie M. McInnis, David C. Emery, Radhika Desikan, John T. Hancock and
Simon J. HISCOCK*

The role of stigma peroxidases and reactive oxygen species in pollen-stigma interactions: insights from *Senecio squalidus* (Asteraceae)

9⁴⁰ – 10⁰⁰ *Serena MUGNAINI, M. Nepi and E. Pacini*

Pollination drop retraction without pollen

10⁰⁰ – 10²⁰ *Adela OLMEDILLA, Irene Serrano, Cynthia G. Suárez, Hava F. Rapoport, M^a Isabel
Rodríguez-García*

Stigma development in olive

10²⁰ – 10⁴⁰ *Martin POTOCKY, Jones, M., Bezvoda, R., Smirnoff N., Zarsky, V.*

Reactive oxygen species produced by NADPH oxidase are involved in pollen tube growth

10⁴⁰ – 11⁴⁰ **Poster Session**
Coffee Break
Aula (Assembly Hall)

Chair: *Viktor ZARSKY*

11⁴⁰ – 12⁰⁰ *Saila VARIS, Reininharju, J., Santanen, A., Pulkkinen, P.*

Pollen competition in Scots Pine (*Pinus sylvestris* L.)

12⁰⁰ – 12²⁰ *Ana Maria VIEIRA, Feijó, J.A.*

An extracellular pH sensing mechanism determines the pollen germination site

12²⁰ – 12⁴⁰ *Juárez-Díaz, J.A., Peña-Jardines, M.X., Vázquez-Santana, S., Guevara-García, A., León-Mejía, P., McClure, B., Felipe CRUZ-GARCÍA*

Unraveling the non-classic secretion of NaTrxh in *Nicotiana* styles and its role in pollen rejection

12⁴⁰ – 13⁰⁰ *Júlia HALÁSZ, Krska, B., Hegedűs, A., Pedryc, A.*

Recent findings of the self-incompatibility analyses in apricot (*Prunus armeniaca* L.)

13⁰⁰ – 13²⁰ *Andrea HERNÁNDEZ-NAVARRO, Ávila-Castañeda, A., Maqueda-Márquez, V., McClure, B. and Cruz-García, F.*

Interaction between pollen tube proteins and stylar proteins 120K and HT-B in self-incompatible *Nicotiana alata*

13³⁰ – **Transfer to Martonvásár**
Meeting point: Assembly Hall of the Congress Center

14³⁰ – 22⁰⁰ **Visit at the Agricultural Research Institute Martonvásár – including lunch and dinner**
Admission: name badges will be used as passes
Bus transfer to the congress hotels after the event

17⁰⁰ – 19⁰⁰ **IASPRR Executive Board Meeting in Martonvásár**

Friday, 14 July

8⁰⁰ – 16⁰⁰ **Registration**
Aula (Assembly Hall)

Session: **Fertilization and early embryogenic development**
Room “Bartók”

Chair: *Thomas DRESSELHAUS*

Keynote Lectures

8³⁰ – 9⁰⁰ *Erhard KRANZ, Stefan Scholten, Quyen Le, Jose F. Guièrrez-Marcos, Liliana M. Costa, Stefanie Meyer, Hugh G. Dickinson, Horst Lörz and Takashi Okamoto*

In vitro fertilization - a tool to study gene - and protein expression in egg and central cells, in cultured in vitro-zygotes, apical and basal cells of the two-celled maize embryo

9⁰⁰ – 9³⁰ *Rod J. SCOTT, James Doughty, Melissa Spielman*

Double fertilisation in *Arabidopsis thaliana* - the role of polyspermy barriers

Oral Presentations

9³⁰ – 9⁵⁰ *Szűcs, A., Jurca, M., Jäger, K., Barnabás, B., Attila FEHÉR*

Genomic approaches to reveal gene expression changes during fertilization and early seed development in wheat

9⁵⁰ – 10¹⁰ *Vági P., Imre K., Zoltán KRISTÓF*

Isolation of living sperm cells and in vitro fusion of *Torenia fournieri* gametes

10¹⁰ – 10³⁰ *Dunja LELJAK-LEVANIC, Thomas Dresselhaus, Stefanie Sprunck*

MATH/BTB domain proteins and their role during egg cell maturation and early embryogenesis of wheat

10³⁰ – 10⁵⁰ *Mihaela-Luiza MÁRTON, Dresselhaus T.*

ZmEA1 as signalling molecule required for micropylar pollen tube guidance in maize and discovery of novel EA1-box protein genes

10⁵⁰ – 11¹⁰ **Coffee Break**
Aula (Assembly Hall)

Session: **Embryogenesis and seed formation**
Room “Bartók”

Chair: *Ueli GROSSNIKLAUS*

Keynote Lecture

11¹⁰ – 11⁴⁰ *Paul Passarinho, Hiroyuki Fukuoka, Iris Heidmann, Richard Immink and Kim BOUTILIER*

The BABY BOOM AP2/ERF transcription factor activates novel signalling pathways during embryogenesis

Oral Presentations

11⁴⁰ – 12⁰⁰ *Ana Claudia Guerra ARAUJO, Falcão R., Carneiro, V.T.C.*

Seed abortion in the diploid sexual counterpart of *Brachiaria brizantha* apomicts (Poaceae)

12⁰⁰ – 12²⁰ *Katalin JÄGER, Fábrián A., Barnabás B.*

Effect of heat stress and water deficit on embryo development in wheat (*Triticum aestivum* L.)

12²⁰ – 12⁴⁰ *Amada PULIDO, Alberto Hernando, Ferenc Bakos, Enrique Méndez, Martine Devic, Beata Barnabás and Adela Olmedilla*

Barley storage proteins are present in microspore-derived embryos

12⁴⁰ – 13⁰⁰ *Hava F. RAPOPORT and María Isabel Rodríguez-García*

Ovule development and structural organization in fertilized and parthenocarpic olive fruits

13⁰⁰ – 14⁰⁰ **Lunch**
Arcade

Sessions: [Flower development and flowering](#)
[Evolutionary aspects of plant sex development](#)
Room “Lehár”

Chair: *André A.M. VAN LAMMEREN*

Oral Presentations

8³⁰ – 8⁵⁰ *Glendon D. ASCOUGH, van Staden, J.*

Flower abscission in *Plectranthus* – differential control mechanisms within a genus?

8⁵⁰ – 9¹⁰ *Andrej KORMUŤÁK, Vooková, B., Demánková, B.*

Introgression between *Pinus sylvestris* L. and *Pinus mugo* Turra in Slovakia

9¹⁰ – 9³⁰ *Mark A. McNEILAGE, Ferguson, A.R., Fraser, L.G., Tsang, G.K., Hilario, E.*

Dioecy in *Actinidia* (kiwifruit)

9³⁰ – 9⁵⁰ Tova **TREBITSH**, Rimon-Knopf, R., Shiber, A.

The origin of gynoecey in the monoecious plant cucumber (*Cucumis sativus*)

9⁵⁰ – 10¹⁰ Ivan **SHAMROV**

Ovule origin and evolution in angiosperms

10⁵⁰ – 11¹⁰ **Coffee Break**
Aula (Assembly Hall)

Session: [Applied aspects, biotechnology of sexual plant reproduction](#)
Room “Lehár”

Chair: Rod J. **SCOTT**

Keynote Lecture

11¹⁰ – 11⁴⁰ Vipen **SAWHNEY**

Male sterility in plants: Mechanisms and commercial application

Oral Presentations

11⁴⁰ – 12⁰⁰ Helga **AMBRUS**, Darkó, É., Király, Z., Barnabás, B.

Production of DH maize lines tolerant of oxidative stress via *in vitro* microspore selection

12⁰⁰ – 12²⁰ Kolidveri Muthukaliannan **GOTHANDAM** and Yong-Yoon Chung

Influence of temperature in rice anther development

12²⁰ – 12⁴⁰ Lantos, C., Mihály, R., Páricsi, S., Kertész, Z., Mesterházy, Á., Matuz, J., János **PAUK**

Using of androgen-derived haploids in wheat breeding

12⁴⁰ – 13⁰⁰ Shafiq **REHMAN**, J.K. Kim, and S.J. Yun

Developmental regulation of K accumulation in pollen, anther and papillae of barley (*Hordeum vulgare* L.)

13⁰⁰ – 14⁰⁰ **Lunch**
Arcade

Session: [Embryogenesis and seed formation](#)
Room “Bartók”

Chair: *Vipen SHAWNEY*

14⁰⁰ – 14²⁰ *Galina E. TITOVA*

Structural organization of dicot and monocot embryos. Principles of differences and possible mechanisms of their origin

14²⁰ – 14⁴⁰ *André A.M. VAN LAMMEREN, Dubas, E., Kieft, H., Wędzony, M. and Custers, J.B.M.*

Microtubule configurations, nuclear DNA synthesis, and distribution of PIN1 in microspore derived embryos of *Brassica napus* cv. Topas that mimic zygotic embryo development

Session: [Apomixis, parthenogenesis](#)

Keynote Lecture

14⁴⁰ – 15¹⁰ *Anna KOLTUNOW, Takashi Okada, Susan Johnson, Andrew Catanach and Ross Bicknell*

Analysis of reproduction in *Hieracium apomixis* mutants

Oral Presentations

15¹⁰ – 15³⁰ *Tatyana B. BATYGINA*

New concept on gametophyte cells in relation with polyembryony problem

15³⁰ – 15⁵⁰ *Ferenc BAKOS, Molnár, I., Timár, I., Molnár-Láng, M., Barnabás, B.*

Wheat × rice crosses: a new distant pollination system

15⁵⁰ – 16¹⁰ *Pankaj KAUSHAL, D.R. Malaviya, A.K. Roy, Shalini Pathak and Ankit Agrawal*

Fingerprinting reproductive pathways of seed development in guinea grass (*Panicum maximum* Jacq.)

16¹⁰ – 16³⁰ *Jochen KUMLEHN, Urs Hähnel, David Koszegi, Andreas Czihal, Jens Tiedemann, Lothar Altschmied and Helmut Bäumlein*

Studies on autonomous embryo formation from Salmon wheat egg cells

16³⁰ – 16⁵⁰ **Coffee Break**
Aula (Assembly Hall)

Chair: *Anna KOLTUNOW*

16⁵⁰ – 17¹⁰ *Radim J. VAŠUT, Vijverberg, K., van Dijk, P.J. and de Jong, J.H.*

Physical mapping of the diplospory region in apomictic common dandelion (*Taraxacum* sect. *Ruderalia*, *Asteraceae*)

- 17¹⁰ – 17³⁰ *Marie-Luise VOIGT, Michael Melzer, Twan Rutten, Thomas Mitchell-Olds, Pablo González-Melendi and Timothy F. Sharbe*
- Ploidy variation, pollen formation and fertilization in the facultative apomictic *Boechera holboellii* complex: insights into differing classes of factors which lead to clonal degeneration**
- 17³⁰ – 17⁵⁰ *Olga N. VORONOVA*
- Development of female reproductive structures and apospory in some CMS lines of sunflower**
- 17⁵⁰ – 18⁵⁰ **General Assembly Meeting
Closing Ceremonies & Awarding
Room “Bartók”**
- 19⁰⁰ – **Transfer to Domonyvölgy
Meeting point: Assembly Hall of the Congress Center**
- 20⁰⁰ – 22⁰⁰ **Congress Dinner at the Lázár Equestrian Park Gödöllő -
Domonyvölgy**
Admission: name badges will be used as passes
Bus transfer to the congress hotels after the event