


IV INTERNATIONAL CONGRESS ON APOMIXIS

Sunday 3th December 2023

19:00 - 21:00

Opening Cocktail - only for invited speakers and organizers -


Opening talk by **Marco Bocchi**, Consul General of Italy in Rosario.

 Consulate General of Italy in Rosario (Address: Montevideo 2182, Rosario)

Monday 4th December 2023

08:00 - 09:00

Registration at the Conference Venue

 Rosario Board Trade Convention Center (Address: Paraguay 755, Rosario).


Morning Session. Coordinators: Luciana Delgado, Carolina Colono

09:00 - 10:00

Opening Plenary Lecture: Prof. Dr. John Carman, Utah State University, USA.

Apomixis: origins, regulation and speciation implications.

10:00 - 10:30

 Coffee break

10:30 - 11:00

Recognition Award: the contribution of Camilo Quarin to apomixis research

In charge of Dr. Fulvio Pupilli.

11:00 - 11:30

Invited speaker: Arp Schnittger, University of Hamburg, Germany.

A cytological framework of female meiosis in Arabidopsis and maize

11:30 - 12:00

Invited Speaker: Viviana Echenique, CERZOS-CONICET-UNS, Bahía Blanca, Argentina.

New insights into the control of apomixis in Eragrostis curvula.

12:00 - 13:50

 Lunch time

Afternoon Session. Coordinators: Maricel Podio, Juan Manuel Vega

13:50 - 14:10

Oral presentation: Ramsankar Chandrasekar, Institute of Biology III, Albert-Ludwigs-University of Freiburg, Germany.

WINDHOSE-RAB GTPASE HOMOLOG A1-dependent membrane localization of the auxin transport protein PINFORMED1 promotes female germline entry in Arabidopsis

14:10 - 14:30

Oral presentation: José Carballo, CERZOS-CONICET-UNS, Bahía Blanca, Argentina.

Unveiling the apomictic allotetraploid genome of Eragrostis curvula.

14:30 - 14:50

Oral presentation: Andrés Bellido, CERZOS-CONICET-UNS, Bahía Blanca, Argentina.

Arabidopsis thaliana could provide new insights into the driving forces underlying the switch from sexual to apomictic development

14:50 - 15:10

Oral presentation: Xixi Zheng, University of Regensburg, Germany.

Understanding the Molecular Mechanism of Parthenogenesis in Cereals.

15:10 - 15:30

Oral presentation: Marta Mendes, University of Milano, Italy.

AUXIN RESPONSIVE FACTOR 10 insensitive to miR160 regulation induces apospory-like phenotypes in Arabidopsis.

15:30 - 16:00


 Coffee break

16:00 - 18:00

Flash presentation of the posters + Poster Session (the posters will remain displayed throughout the course of the meeting)

20:00 - 01:00

MAD Social gathering at the bar "Silos Davis" on the Paraná River.

 Bar "Los Silos" (Address: Av. de la Costa Estanislao López 2550).

Tuesday 5th December 2023

Morning Session. Coordinators: Lorena Siena, Juan Pablo Selva

09:00 - 09:30

Invited Speaker: Abed Chaudhury, Krishan Foundation, Australia.

Apomixis and heterotic perenniality in rice

09:30 - 10:00

Invited Speaker: Ueli Grossniklaus, University of Zürich, Switzerland.

Towards the engineering of apomixis in maize.

10:00 - 10:30

 Coffee break

10:30 - 11:00

Invited Speaker: Stewart Gillmor, Langebio, CINVESTAV, Mexico.

Hybrid effects on zygotic genome activation in Arabidopsis thaliana.

11:00 - 11:20

Oral presentation: Luciana Delgado, IICAR-CONICET-UNR, Rosario, Argentina.

3D architecture of the ovule during MMC differentiation in Paspalum rufum.

11:20 - 11:40

Oral presentation: Maricel Podio, IICAR-CONICET-UNR, Rosario, Argentina.

Resolving the gene content of the genomic region associated with apomixis in Paspalum notatum using a diploid genome assembly.

11:40 - 12:00

 **Announcements**

12:00 - 14:00

 Lunch time

Scientific Program



Sponsors



Local Host

IV INTERNATIONAL CONGRESS ON APOMIXIS

Tuesday 5th December 2023

Afternoon Session. Coordinators: Viviana Echenique, Juan Pablo Ortiz

- 14:00 - 14:30** **Invited Speaker: Olivier Leblanc**, IRD-Montpellier, France.
Functional characterization of apomixis candidate genes in Arabidopsis.
- 14:30 - 15:00** **Invited Speaker: Lucia Colombo**, University of Milan, Italy.
Unraveling complex mechanisms in plant reproduction for the crops of the future.
- 15:00 - 15:30** **Invited Speaker: Gabriela Pagnussat**, Universidad Nacional de Mar del Plata, Argentina.
A mitochondrial electron shuttle essential for female gametophyte and early embryo development in Arabidopsis.
- 15:30 - 16:00** ☕ Coffee break
- 16:00 - 18:00** **Round Table on public scientific policies and strategies.** Participants:
Fernando Peirano, President of the National Agency for the Promotion of Research, Technological Development and Innovation;
Marina Baima, Secretary of Science and Technology of the Province of Santa Fe;
Roberto Rivarola, Vice President of Technology Affairs, CONICET;
Sandra Fernández, Director of CCT CONICET Rosario.
- 20:00 - 23:00** **Social gathering at Bar "El Cairo"** 📍 (Address: Santa Fe 1102)

Wednesday 6th December 2023

Morning Session. Coordinators: Diego Zappacosta, Andrés Bellido

- 09:00 - 09:30** **Invited Speaker: Peggy Ozias-Akins**, University of Georgia, USA.
Insights on asexual reproduction through seeds from Pennisetum/Cenchrus apomictic species.
- 09:30 - 10:00** **Invited speaker: Giovanni Gabelli**, DAFNAE, Agripolis, University of Padova, Italy.
Dissecting apomeiosis in alfalfa (Medicago sativa L.): Genomics applied to unreduced gamete mutants and sexually induced polyploids.
- 10:00 - 10:30** ☕ Coffee break
- 10:30 - 11:00** **Invited Speaker: Silvina Pessino**, IICAR-CONICET-UNR, Rosario, Argentina.
Integrative use of comparative omics for harnessing apomixis for plant breeding.
- 11:00 - 11:30** **Invited Speaker: Thomas Dresselhaus**, University of Regensburg, Germany.
Understanding gene regulatory networks in the egg apparatus to trigger parthenogenesis.
- 11:30 - 11:50** **Oral presentation: Tatyana Radoeva**, KeyGene, Wageningen, The Netherlands.
Apomixis: Plant Breeding Technology of the 2020s
- 11:50 - 12:10** **Oral presentation: Petra Šarhanová**, Masaryk University, Department of Botany and Zoology, Czech Republic.
A novel method to detect automixis in flowering plants.
- 12:10 - 14:00** 🍽️ Lunch time
- 14:00 - 17:00** 📍 Rosario sightseeing Tour | **MAD Project** coordination meeting
- 20:00 - 01:00** **Gala Dinner at restaurant "Mercurio"** 📍 Rosario Board of Trade (Address: Corrientes 796)

Thursday 7th December 2023

Morning Session. Coordinators: Francisco Espinoza, José Carballo

- 09:00 - 09:30** **Invited Speaker: Fulvio Pupilli**, Institute of Biosciences and Bioresources, CNR, Italy.
ORIGIN OF RECOGNITION COMPLEX 3 (PsORC3) is the genetic determinant for the development of unbalanced endosperm in the Paspalum simplex agamic complex (Poaceae).
- 09:30 - 10:00** **Invited Speaker: Anna Koltunow**, The University of Queensland, Australia.
Hy-Gain: harnessing apomixis for self-reproducing sorghum and cowpea hybrids for smallholder farmers in sub-Saharan Africa.
- 10:00 - 10:30** ☕ Coffee break
- 10:30 - 11:00** **Invited Speaker: Emidio Albertini**, University of Perugia, Italy.
Does APOSTART play a role in apospory?
- 11:00 - 12:00** **Discussion session on perspectives. Closing ceremony**
- 12:00 - 14:00** 🍽️ Lunch time
- 14:00 - 17:00** **Open session to the public:** Mendel's laws, ADN of humans and plants, Sexual and asexual reproduction, Sexuality and Apomixis in breeding, Women in Science
📍 ECU, National University of Rosario (Address: Av. San Martín 750)
- 20:00 - 01:00** **Barbecue (Asado) at "El Viejo Balcón Puerto Norte" restaurant** 📍 (Address: Av. Carballo 198)