



RAFV 2023

XXXIV Meeting of the Argentinean Society of Plant Physiology

September, 24 al 27

Ariston Hotel Convention Center

Address: *Pueyrredón 762, Rosario*

PROGRAM

September 24th

14.00 - 16.15: **Accreditation**

16:15 - 16:50: **Opening Ceremony**

16.50 – 17.00: **Appointment of Professor Edith Taleisnik as honorary partner**

17.00 - 18.00: **EMBO Keynote Lecture**

Dr Crisanto Gutierrez

"Understanding root growth: more complex than anticipated"

Coordinators: Dr Javier Palatnik & Dr Paula Casati

-18.00 - 19.00: **Keynote Lecture**

Dr Raquel Chan

"Small and almost undetectable proteins play crucial roles in plant development and adaptation to environmental conditions"

Coordinators: Dr Nestor Carrillo & Dr Fabiana Drincovich

19.00: **Welcome Cocktail**

September 25th

08.30 – 10.00: **Symposia**

Room A: Symposium CRISPR and new technologies

Coordinators: Dr Gabriela Soto & Dr Mariana del Vas

08.30-09.00: **Dr Gabriela Soto** *"Molecular Improvement of Alfalfa using CRISPR/Cas9"*

09.00-09.30: **Dr Gabriela Massa** *"Next generation potatoes obtained through gene editing"*

09.30-10.00: **Dr Emilia Bottero** *"Combining Synthetic Biology and Gene Editing for the Development of a New Generation of Non-GMO Crops"*

Room B: Symposium Crop Ecophysiology

Coordinator: Dr Cecilia Rousseaux



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08.30-09.00: **Dr Ignacio Hisse** *"Genetic and physiological mechanisms responsible for maize kernel weight and source-sink relations under contrasting nitrogen supply levels"*

09.00-09.30: **Dr Peter Searles** *"Ecophysiological responses of olive trees to warming in different phenological stages of crop development"*

09.30-10.00: **Dr María Verónica Rodríguez** *"Problems caused by excessive or insufficient seed dormancy in crops. Search for solutions in sunflower and grain sorghum"*

10.00 – 10.30: **Coffee Break**

10.30 – 11.30: **Keynote Lecture**

Dr Danielle Way

"Winners and losers: Climate change effects on forests and crops"

Coordinator: Dr Cecilia Rousseaux

11.30-12.00: **Short Talks**

Room A:

Coordinator: Dr Diego Sánchez

11.30-11.45: **Dr Mariana Carignani Sardoy** *"Importance of Calcium ATPases in root hair development in Arabidopsis thaliana"*

11.45-12.00: **Dr Rosario Pantaleno** *"The role of mitochondrial H₂S in stomatal immunity"*

Room B:

Coordinator: Dr Paula Fernández

11.30-11.45: **Dr Juan Cagnola** *"Did selection for tolerance to high plant density improve maize growth response in water stress conditions?"*

11.45-12.00: **Lic Cesar Chavez** *"Effects of flooding on the growth of different cultivars of cassava (Manihot esculenta Crantz) plants grown in greenhouse conditions"*

12.00 - 13.30: **Lunch**

13.30 – 14.30: **Keynote Lecture**



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Dr Gustavo Macintosh

"Vacuolar RNA salvage and cellular homeostasis in Arabidopsis"

Coordinators: Dr Carlos García Mata & Dr Susana Gallego

14.30 – 16.30: **Coffee Break and Posters session I**

Posters: 1 - 85

16.30 - 18.00: **Round Table:**

Challenges of Agro-biotechnology in Argentina

Confirmed Participants: Ing Agr Perla Godoy, Dr Claudio Dunan, Ing Sebastián Reinoso, Dr Sergio Romano

Coordinators: Dr Fabiana Drincovich & Dr Raquel Chan

18.00 - 19.30: **SAFV Meeting (Asamblea de Socios)**

September 26th

08.30 – 10.00: **Symposia**

Room A: Molecular farming

Coordinators: Dr María Victoria Busi & Marcela Dotto

08.30-09.00: **Dr Silvana Petruccelli** *"Strategies to enhance foreign protein synthesis in the secretory pathway of plant cells"*

09.00-09.30: **Dr Marina Clemente** *"Molecular farming as a biotechnological tool in the production of vaccine antigens"*

09.30-10.00: **Dr Carlos Esteban Hernando** *"Making up for lost time: Development of a New Breeding Techniques program and its application to the cultivation of Cannabis"*

Room B: Mineral Plant Nutrition

Coordinators: Dr Andrea Galatro & Dr Jorge Moriconi

08.30-09.00: **Dr Carla Caputo** *"Fluctuations in phloem transport of assimilates in response to mineral nutrition"*

09.00-09.30: **Dr Christian Danna** *"Plants' deceiving game to tame bacterial foes"*



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09.30-10.00: **Dr Mariana Obertello** *"Improving nitrogen use in rice with gene networks"*

10.00 – 10.30: **Coffee Break**

10.30 – 11.30: **Keynote Lecture**

Dr Yunde Zhao

"New approaches to auxin biology: unexpected findings"

Coordinators: Dr José Estevez & Dr Gabriela Pagnussat

11.30 – 12.00: **Short Talks**

Room A:

Coordinator: Dr Paula Fernández

11.30-11.45: **Lic Yésica Chazarreta** *"Maize grain dry-down: improving predictive models"*

11.45-12.00: **Dr Ariel Gutierrez Oyarzún** *"Combined effects of cytokinins and brassinosteroids applied at flowering on grain yield and components of rapeseed"*

Room B:

Coordinator: Dr Carlos Bartoli

11.30-11.45: **Dr Ana Cislighi** *"The mitochondrial enzyme ProDH controls the cytosolic redox homeostasis in Arabidopsis"*

11.45-12.00: **Dr Pedro Bellis** *"NO Way Out: Nitric Oxide Blocks Autophagy"*

12.00 - 13.30: **Lunch**

13.30 - 15.00: **Symposia**

Room A: Symposium Plant Metabolism

Coordinators: Dr Carlos Figueroa & Elina Welchen

13.30-14.00: **Dr Veronica Maurino** *"Optimization of NAD-ME for C4 physiology in eudicots: A three-way dance story"*

14.00-14.30: **Dr Hannetz Roschttardt** *"The diverse iron distribution in seeds"*

14.30-15.00: **Dr Leonardo Curatti** *"Genomic insights into the metabolism of endo-cyanobionts of diatoms"*



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Room B: Symposium Forest Technology

Coordinators: Dr Ezequiel Margarit

13.30-14.00: **Dr María Elena Fernández** *"Forests facing drought and heat-waves: the need of a physiological-based forestry to increase plantations adaptability to climate change"*

14.00-14.30: **Dr Gustavo Pedro Javier Oberschelp** *"Is cold acclimation the key to frost tolerant Eucalyptus in a warming world?"*

14.30-15.00: **Dr María Verónica Arana** *"Unravelling the responses of non-model tree species to the environment: the case of Nothofagus pumilio a key species of the subantarctic forests"*

15.00 – 17.00: **Coffee Break & Poster session II**

Posters 86 - 170

17.00 – 18.30: **Round Table**

Challenges of crop production and environmental sustainability

Confirmed Participants: JO Jorgelina Hiba, Dr Virginia Luquez, Dr Leticia Mesa, Dr José Vesprini, Dr Ruben Quintana

Coordinators: Dr Mariana Saigo & Dr Juan José Guamet

18.30- 19.30: **ARG Plant Women**

September 27th

08.30 – 10.00: **Symposia**

Room A: Plant Molecular Biology

Coordinators: Dr Ramiro Rodríguez & Dr Carla Schoemer

08.30-09.00: **Dr Nicolas Bologna** *"RNA silencing pathways in plants"*

09.00-09.30: **Dr Mariano Perales** *"Circadian clock functions in woody perennials"*

09.30-10.00: **Dr Ivana Viola** *"Regulatory networks of TCP transcription factors during Arabidopsis seedling development "*

Room B: Physiology of horticultural crops

Coordinators: Dr Valeria Lara & Dr Pedro M. Civello



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08.30-09.00: **Dr Diego Lijavetzky** *"Juvenile-to-adult phase transition in grapevine"*

09.00-09.30: **Dr Fernando Carrari** *"Regulation of vitamin E metabolism in tomato"*

09.30-10.00: **Dr Carlos Grellet** *"Ethylene receptors are required to activate the plant defense response induced by AsES"*

10.00 – 10.30: **Coffee Break**

10.30 – 11.30: **Keynote Lecture**

Dr Marcelo Yanovsky

"Transcriptional and post-transcriptional regulatory networks that modulate the adaptation of plants to daily changes in light and temperature"

Coordinators: Dr Eugenia Zanetti & Dr Ana Laxalt

11.30 – 12.00: **Short Talks**

Room A:

Coordinator: Dr Ramiro Lascano

11.30-11.45: **Dr Pablo Calzadilla** *"Shedding light onto the role of the Plastid terminal oxidase (PTOX) as a safety valve for photoprotection in plants"*

11.45-12.00: **Dr Paula Calace** *"Unveiling the Role of NADP-ME and NAD-ME in C4 Photosynthesis of Setaria and Panicum"*

Room B:

Coordinator: Dr Pedro M Civallo

11.30-11.45: **Dr Ana Arruabarrena** *"Targeted disruption of tomato CYC-B gene improves postharvest color development and cold stress tolerance"*

11.45-12.00: **Dr Ariel Orellana** *"Blooming in the desert: Unraveling the secrets of Cistanthe longiscapa's adaptation"*

12.00 – 13.30: **Lunch**

13.30 – 14.30: **Annals of Botany Keynote Lecture**

Dr Yoselin Benitez-Alfonso



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“Plasmodesmata and callose interplay in the regulation of plant root development”

Coordinator: Dr Gabriela Auge

14.30 – 16.30: **Coffee Break and Posters session III**

Posters: 171 - 255

16.30-18.00: **Symposia**

Room A: Symposium Biotic and Abiotic Stress

Coordinators: Dr María Inés Zanor & Dr Marina Pombo

16.30- 17.00: **Dr Georgina Fabro** *“Enhancing insight into the function of plant filamentous-pathogens' Effectors: suppression of immunity via manipulation of developmental hormonal path”*

17.00-17.30: **Dr Erwan Michard** *“Function of Plant Glutamate Receptor-like channels (GLR) in adaptation to abiotic stress”*

17.30-18.00: **Dr Carlos Manacorda** *“Evaluation of the effect of TuMV infection on drought tolerance and water management at the whole plant level in Arabidopsis”*

Room B: Symposium Vegetative and Reproductive Development

Coordinators: Dr Silvina Pessino & Dr Alvaro Quijano

16.30-17.00: **Dr Fernanda Gonzalez** *“Photoperiod sensitivity and spike fruiting efficiency as alternatives to increase wheat yield potential”*

17.00-17.30: **Dr Silvina Pessino** *“From comparative transcriptomics in apomictic species to the induction of apospory-like phenotypes in Arabidopsis”*

17.30-18.00: **Dr Ramiro Rodríguez Virasoro** *“Mitotic and Endoreplication Cell Cycles in Plant Organ Growth”*

18.00 – 18.30: **Closing Ceremony**