

SCIENTIFIC PROGRAM

Monday, December

3th Time

12:00 – 15:00 **Registration**

15:00 – 16:00 **Opening Welcome**
Chair: Michael Handford

Keynote Speaker
Paul Dupree. University of Cambridge, United Kingdom.
The molecular structure of plant cell walls and implications for function and enzymatic degradation.

16:00 – 16:30 **Coffee Break**

16:30 – 18:40 **Plenary Session 1: Postharvest and Physiology**
Chairs: Carlos Figueroa y Reinaldo Campos

16:30 – 17:10 **Ross Atkinson.** PFR, New Zealand.
Consumer-driven flavour genomics in kiwifruit.

17:10 – 17:35 **Romina Pedreschi.** Pontificia Universidad Católica de Valparaíso.
Integration of OMICS approaches for further understanding of postharvest quality traits.

17:35 – 18:00 **Carolina Contreras.** Pontificia Universidad Católica de Chile.
*Pepino (*Solanum muricatum*): a model to understand aroma biology during fruit development.*

18:00 – 18:20 **Nallat Ocares.** Centro Regional de Investigación La Platina, INIA.
Identification of Quantitative Trait Genes using global gene expression analysis and association analysis for berry textural properties in grapevine.

18:20 – 18:40 **Lea Natalia Toledo.** Pontificia Universidad Católica de Valparaíso.
Unveiling a self-regulated process of inhibition in a vegetal Polyphenol oxidase specie.

18:40 – 19:00 **Flash Talks**

19:00 – 21:00 **Welcome Reception & Poster Session I (odd numbers)**

Tuesday, December 4th

09:00 – 11:30 Plenary Session 2 – Iron Homeostasis and Plant Nutrition

Chairs: Hannetz Roschztardt and Marely Cuba

09:00 – 09:30

Christian Dubos. INRA, Montpellier, France.
Transcriptional integration of the responses to iron availability in Arabidopsis by the bHLH factor ILR3.

09:30 – 09:55

Hannetz Roschztardt. Pontificia Universidad Católica de Chile.
The diverse iron distribution in Eudicotyledoneae seeds: from Arabidopsis to Quinoa.

09:55 – 10:20

Juan Carlos del Pozo. CBPG-INIA, Madrid, Spain. (*SEFV)
New insights in the root responses to phosphate starvation.

10:20 – 10:45

Diego Gomez-Casati. CEFABI-CONICET, Universidad Nacional de Rosario, Argentina.
Plant Frataxin and metal homeostasis.

10:45 – 11:00

Susana Grant. Pontificia Universidad Católica de Chile.
Genetic control of Iron loading in Arabidopsis embryos.

11:00 – 11:15

Sebastián Moreno. Pontificia Universidad Católica de Chile.
Nitrate-mediated growth through cell expansion and endoreplication during shoot development in Arabidopsis thaliana.

11:15 – 11:30

Elena Vidal. Universidad Mayor
Identification of development-regulated gene regulatory networks in *Arabidopsis thaliana* roots.

11:30 – 11:45

Coffee Break

11:45 – 13:30

Plenary Session 3- Pigment Metabolism and its Regulation

Chair: Claudia Stange and Pablo Figueroa

11:45 – 12:25

Li Li. Cornell University, USA.
Regulatory control of carotenoid biosynthesis and plastid sink formation.

12:25 – 12:50

Joanna Lado. National Institute of Agricultural Research, Uruguay.
Carotenoids in Citrus fruit: biosynthesis, accumulation and antioxidant functions.

- 12:50 – 13:15 **Claudia Stange.** Universidad de Chile.
Light-regulated genes participate in the synthesis of carotenoids in the dark-grown carrot storage root.
- 13:15 – 13:40 **Carmen Espinoza.** Pontificia Universidad Católica de Chile.
New insights into flavonoids regulation in grapevine and the contribution of environmental and developmental factors.
- 13:40 – 16:00 Lunch**
***Town Hall Session (Only CSPB members, SEFV and SAFV)**
- 16:00 – 17:45 Plenary Session 4 – Plant Biotic Interactions**
Chairs: Francisca Blanco and Paulo Canessa
- 15:30 – 16:10 **Santiago F. Elena.** CSIC, Valencia, Spain.
Host variability in resistance genes conditions the evolution of emerging plant RNA virus.
- 16:10 – 16:35 **Paulo Canessa.** Universidad Andrés Bello
The Reductive Iron Assimilation system of Botrytis cinerea and its impact on virulence.
- 16:35 – 17:00 **Alan Zamorano.** Universidad de Chile
Identification of 16SrIII-J Phytoplasma phytopathogenic factors.
- 17:00 – 17:15 **Carlos Rosales.** Universidad Mayor
Identification of fungi associated to plants of the Atacama Desert and analysis of their capacity to promote tolerance to abiotic stress in plants.
- 17:15 – 17:30 **Lorena Pizarro.** School of Plant Sciences and Food Security, Tel Aviv University
Modulation of Pathogen triggered-immunity by endomembrane trafficking: LeEIX2 a tomato RLP as a case study.
- 17:30 – 17:45 **Francisco Hernández.** Oregon State University, Corvallis, US
Introgression of rpg4/Rpg5 into barley germplasm provides insights into de genetics of resistance to Puccinia graminis f. sp. tritici raza TTKSK and resources for developing resistant cultivars
- 17:45 – 18:00 Coffee Break**
- 18:00 – 18:20 Flash Talks II**
- 18:20 – 20:30 Poster Session II (even numbers) 20:30 – 22:00 Dinner (on your own)**

Wednesday, December 5th

09:00 – 10:45

Plenary Session 5: Plant Molecular Biology

Chairs: Raúl Herrera and Reinaldo Campos

09:00 – 09:40

Jorge Paiva. iBET, Portugal/ IPG, Poland.
Transcriptomic dynamic responses during tension wood formation in Eucalyptus globulus.

09:40 – 10:05

Raúl Herrera. Universidad de Talca.
Functional characterization and transcript analysis for the response to stem inclination in radiata pine seedlings.

10:05 – 10:30

José Estévez. Instituto Leloir. Instituto de Investigaciones Bioquímicas de Buenos Aires (IIBBA-CONICET)
Molecular mechanism involved in polar growth and ros- homeostasis in single plants cells in Arabidopsis.

10:30 – 10:45

Claudio Urra. Universidad Andrés Bello
Analysis of genetic diversity of Vitis vinifera 'Cabernet sauvignon' and 'Sauvignon blan' clones.

10:45 – 11:10

Coffee Break

11:10 – 13:10

Plenary Session 6: Plant Biotechnology for Agriculture Development- CHILEBIO

Chair: Miguel Angel Sánchez and Claudio Meneses

11:10 – 11:40

Magdalena Pérsico. Bayer
Biotechnology: A key component of the modern agriculture toolkit.

11:40 – 12:10

Miguel Ángel Sánchez. ChileBio
Status of Market, regulation and research of agricultural biotechnology in Chile.

12:10 – 12:40

Natalia Urzúa. Corteva
Application of gene editing for development of new plant varieties.

12:40 – 13:10

Maurice Garnier. BASF
Innovation and challenges for the application of agricultural biotechnology.

13:10 – 15:00

Lunch

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- 15:00 – 16:00** **Plenary Session 7: Plant Biotechnology**
Chairs: Alejandra Moya and Andres Schwember
- 15:00 – 15:30 **Bradley Till. CGNA**
Genomics tools to facilitate plant mutation breeding
- 15:30 – 15:45 **Luis Quiróz. Universidad de Chile**
Functional characterization of carrot DcALFIN4 and DcALFIN7 transcription factors and its biotechnological application
- 15:45 – 16:00 **Ignacio Pezoa. Universidad Mayor**
Genetic analysis of the wild bush Sophora toromiro as a first approach to its reintroduction in RAPA NUI
- 16:00 – 16:30** **Coffee Break**
- 16:30 – 19:00** **Plenary Session 8: Ecophysiology and plant-water relationship**
Chairs: Paula Pimentel and Claudio Pastenes
- 16:30 – 17:10 **François Chaumont. Université Catholique de Louvain, Belgium.**
Maize aquaporins: physiological roles and regulation.
- 17:10 – 17:35 **Italo Cuneo. Pontificia Universidad Católica de Valparaíso.**
Highly Complex Porous Pipes: Biophysics and Physiology of Fine Roots Water Uptake Under Drought.
- 17:35 – 18:00 **Alejandra Zúñiga-Feest. Universidad Austral de Chile.**
Evergreen trees from swamps forest and its adaptations to cope with waterlogging.
- 18:00 – 18:25 **Claudio Pastenes. Universidad de Chile.**
Consistency of the hydraulic traits and stomatal responses in grapevines with contrasting hydraulic vulnerability.
- 18:25 – 19:00 **Stanley Lutts. Université Catholique de Louvain, Belgium**
Polyamines involvement in plant responses to mineral toxicities.
- 19:00 – 21:00** **Free Time**
- 21:00** **Conference Dinner & Party**