

2nd INTERNATIONAL WORKSHOP

On Applied Cellular and
Molecular Biology

Programme

Tuesday January 24

Main Room	Opening Ceremony
08:30 - 08:45	Welcoming
08:45 - 09:15	Opening Conference: Dr. Alejandra Chaparro Padilla - Universidad de Los Andes, Chile. "Oral Precision Medicine. New Perspectives"
Main Room	Symposium 1: Plant Physiological and Molecular Responses to Environmental Stress Co-Chairs: Marjorie Reyes Díaz - León Bravo Ramírez
09:20 - 09:50	Dr. Paulo Ribeiro Marchiori, Universidade Federal de Lavras, Brazil. "Comments on physiology of sugarcane ripening: carbon partition"
09:55 - 10:25	Dr. Adriano Nunes-Nesi, Universidade Federal de Viçosa, Brazil. "Mitochondrial metabolism and plant stress responses"
10:30 - 10:40	Break
10:40 - 11:10	Dr. Helaine Carrer, Universidade de São Paulo, Brazil. "Molecular and biotechnology approaches to improve water deficit tolerance in teak trees"
11:15 - 11:45	Dr. Arnould Savouré, Sorbonne Université, France. "Insights into the roles of proline in plants"
11:50 - 12:05	Madeleyne Parra-Fuentes, Corporación Colombiana de Investigación Agropecuaria, Colombia. "Diagnosis and characterization of symptoms associated with citrus Huanglongbing disease in the Colombian Caribbean"
12:10 - 12:25	Rebeca Omena-Garcia, Universidad Federal de Viçosa, Brazil. "Relationship between the high photosynthetic efficiency and leaf anatomic traits in <i>Solanum pennellii</i> introgression sublines"
12:30 - 12:45	Daniel López Hernández, Universidad de La Frontera, Chile. "How nocturnal warming could lead to <i>Deschampsia antarctica</i> (Poaceae) cold deacclimation?"
Main Room	Symposium 2: Biotechnology Applied to Health Co-Chairs: Pamela Leal Rojas - Luis Salazar Navarrete
14:30 - 15:00	Dr. Katlin Brauer Massirer, Universidade Estadual de Campinas, Brazil. "Development of enzymes for viral detection by RT-LAMP"
15:05 - 15:35	Dr. Leticia Barrientos Díaz, Universidad de La Frontera, Chile. "An innovative multi-omics approach for bioactive metabolites discovery in actinobacteria and cyanobacteria from extreme environments"
15:40 - 15:50	Break
15:50 - 16:05	Nivaldo Gómez Hernández, Center for Genetic Engineering and Biotechnology, Cuba. "New evidence of the interaction between the COMMD1 protein and the antitumor peptide CIGB-552"
16:10 - 16:25	Álvaro Gutiérrez Colima, Universidad de La Frontera, Chile. "Bacteriocins and its potential effect as cell death mediator in colon cancer cells lipid membrane: An <i>in-silico</i> analysis"
16:30 - 16:45	Felipe Maurelia Gaete, Universidad de Concepción, Chile. "Identification and characterization of proteic interactors for the C-terminal region of SCO-spondin during embryo development"
16:50 - 17:05	Ivonne Romero Aguilera, Centro de Protección e Higiene de las Radiaciones, Cuba. "Chromosomal radiosensitivity in lymphocytes of cancer patient measured after G0 <i>in vitro</i> irradiation and G2-checkpoint abrogation by caffeine"
17:10 - 17:25	Nicole Cortez Salvo, Universidad de La Frontera, Chile. "Biotransformation products of drimane sesquiterpenoids with activity against pathogenic yeast"
17:30 - 17:45	Benjamín Leyton-Carcaman, Universidad de La Frontera, Chile. "The clinically relevant <i>Corynebacterium</i> spp insertion sequences determine their role in resistance and virulence"
17:50 - 18:05	Johan Morales-Sánchez, Instituto Tecnológico de Costa Rica, Costa Rica. "In-vitro anticancerogenic activity preliminary tests for a Costa Rican species of Ganoderma"
18:10 - 18:25	Paula Marroquín Morales - Daniela Suárez Bernal, Instituto Tecnológico y de Estudios Superiores de Monterrey, Mexico. "Optomotor response (OMR) more than a visual test. Modeling diseases of national interest"

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Main Room

Symposium 3: Cellular and Molecular Biology of Reproduction

Co-Chairs: Pamela Uribe Catalán - Ricardo Felmer Dorner

09:00 - 09:30

Dr. Ricardo Perecin Nociti, Universidade de São Paulo, Brazil / Université de Montréal, Canada.

"lncRNAs in the embryo and developmental biology"

09:35 - 10:05

Dr. María Elena Arias Cea, Universidad de La Frontera, Chile.

"Activation of bovine oocytes by protein synthesis inhibitors: New findings on the role of MPF/MAPKs"

10:10 - 10:20

Break

10:20 - 10:50

Dr. Rodrigo Boguen Ojeda, Universidad Católica de Temuco, Chile.

"Effect of pathological Rho GTPase modulation on function and structure of human spermatozoa"

10:55 - 11:10

Dr. (c) Fernanda Fuentes Zapata, Universidad de La Frontera, Chile.

"Mammalian gametogenesis and fertilisation: Main molecular events in germ cells"

11:15 - 11:30

Dr. Osvaldo Merino Painen, Universidad de La Frontera, Chile.

"Effects of climate change on sperm function and motility kinematic parameters in sperm from fish"

11:35 - 11:50

Dr. Fabiola Zambrano Quezada, Universidad de La Frontera, Chile.

"Neutrophil extracellular traps and their impact on sperm function"

11:55 - 12:10

Luis Águila Paredes, Universidad de La Frontera, Chile.

"Effect of sperm treatment with lyssolecithin on in vitro outcomes of equine ICSI"

12:15 - 12:30

Paulina Cabrera Herreros, Universidad de La Frontera, Chile.

"Effect of incubation of thawed equine spermatozoa under different capacitating conditions on the sperm viability and membrane fluidity"

12:35 - 12:50

Felipe Pérez García, Universidad de La Frontera, Chile.

"Isolation of small extracellular vesicles (<200 nm) from bovine follicular fluid by ultracentrifugation"

Main Room

Symposium 4: Opportunities in Research and Applied Science

Co-Chairs: Priscilla Brebi Mieville - Jorge Farías Avendaño

14:30 - 15:00

Mg. Franklin Valdebenito Godoy, Universidad de La Frontera, Chile.

"Innovation and entrepreneurship from the university"

15:05 - 15:20

Dr. Bárbara Mora Lagos, Universidad Autónoma de Chile, Chile.

"New pharmacological formulation for the treatment of gastric cancer: a potential alternative in chemoresistance"

15:25 - 15:40

MSc. Rodrigo Salazar Celedón, Universidad de La Frontera, Chile.

"Bactomelanin®: Exploiting the potential of bacterial pigments of Antarctic origin as photoprotectors against ultraviolet radiation"

Poster Room

Poster Session

15:55 - 17:00

Poster Presentation

Main Room

Closing Conference

17:10 - 17:40

Mg. Carlos Isaacs Bornand, Universidad de La Frontera, Chile.

"Managing emerging technologies: New tools to move from lab to market"

17:45 - 18:15

Awards and Closing Ceremony



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