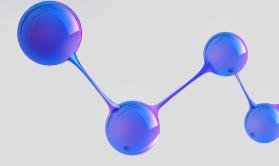


I INTERNATIONAL WORKSHOP 2021

ON APPLIED CELLULAR AND
MOLECULAR BIOLOGY

November
25th – 26th

STREAMING BY  ZOOM



Workshop Programme

Day 1

Thursday, 25 November 2021
Morning

09:00 – 09:15	Welcoming and Opening Ceremony Institutional Welcoming Dr. Rodrigo Navia Diez, Vicerrector for Research and Postgraduate Studies, VRIP, Universidad de La Frontera, Temuco, Chile. Dr. Marjorie Reyes Díaz, Organizing Committee, Universidad de La Frontera, Temuco, Chile.
09:15 – 09:50	Opening Conference Dr. Vinicius Maracaja-Coutinho, Universidad de Chile, Chile Solving real-life problems through Genomics and Bioinformatics.
09:50 – 10:25	Symposium I. Biotechnology of Bioresources Co-chairs: Dr. Marjorie Reyes Díaz & Dr. León Bravo Ramírez
10:25 – 10:50	Dr. Adriano Nunes Nesi, Departamento de Biología Vegetal, Universidade Federal de Viçosa, Brazil. The Role of Mitochondrial Metabolism in Plant Stress Responses.
10:50 – 11:15	Dr. Laura Bertini, Department of Ecological and Biological Sciences, University of Tuscia, Italy. Small temperature changes act as drivers for metabolic reprogramming of <i>C. quitensis</i> plant and associated microbes in the Antarctic scenario.
11:15 – 11:25	Break
11:25 – 11:45	Symposium I. Biotechnology of Bioresources Co-chairs: Dr. Cledir Rodrigues-Santos & Dr. Marysol Alvear Zamora
11:45 – 12:05	Dr. Manoel Oliveira, Minister of Health, Brazil Molecular diagnosis of sporotrichosis: What methodologies are applied for the identification of species in our Research Group?.
12:05 – 12:25	Dr. Cristian Paz Robles, Departamento de Ciencias Básicas, Universidad de La Frontera, Temuco, Chile. Natural and semisynthetic bioactive drimane sesquiterpenoids isolated from <i>Drimys winteri</i> .
12:25 – 12:40	Dr. Claudia Sanhueza, Centro de Medicina Traslacional, Universidad de La Frontera, Temuco, Chile. Development of a scaffold of PHB from <i>Paraburkholderia xenovorans</i> LB400 and gelatin for dermal tissue regeneration.
12:40 – 12:55	Dr. Olman Gómez-Espinoza, Centro de Investigación en Biotecnología, Instituto Tecnológico de Costa Rica, Costa Rica. <i>Colobanthus quintesia</i> under CO ₂ limitation: The response of oxalate oxidase and calcium oxalate crystals.

Day 1

Thursday, 25 November 2021
Evening

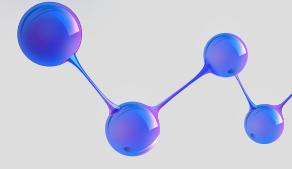
15:00 – 15:30	Dr. Lleretny Rodríguez, Universidad de Concepción, sede Chillán, Chile. Embryo derived EVs: from embryo classification to embryo-maternal interaction.
15:30 – 15:50	PhD Student María José Contreras, Universidad de La Frontera, Temuco, Chile. Effect of cholestanol and cholesterol-loaded cyclodextrin on stallion sperm physiology and in vitro capacitation after cryopreservation.
15:50 – 16:10	Dr. Luis Águila Paredes, Universidad de La Frontera, Temuco, Chile. Haploid androgenetic development of bovine embryos: new insights of their developmental features.
16:10 – 16:30	Dr. María Gracia Gervasi, University of Massachusetts-Amherst, Amherst, Massachusetts, USA. Effects of sperm incubation conditions on in vitro early embryo development in the mouse.
16:30 – 16:50	Dr. Pamela Uribe Catalán, Universidad de La Frontera, Temuco, Chile. Analysis of autophagy in human sperm exposed to oxidative stress.
16:50 – 17:10	PhD Student Cecilia Valencia Robles, Universidad de La Frontera, Temuco, Chile. Effect of inhibition of protein synthesis and phosphorylation on bovine oocyte activation and embryonic development.

INTERNATIONAL WORKSHOP²⁰²¹

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Workshop Programme

Day 2

Friday, 26 November 2021
Morning

Symposium III. Cellular and Molecular Biology of Priority Diseases

Co-chairs: Dr. Cledir Rodrigues-Santos, Dr. Jorge Farias & Dr. Luis A. Salazar

09:00 – 09:30	Dr. Manuel Varas Godoy, Universidad San Sebastián, Santiago, Chile. Chemo-EVs and its contribution in tumor progression.
09:30 – 10:00	Dr. Marcela Hermoso Ramello, Faculty of Medicine, ICBM, Universidad de Chile, Santiago, Chile. IL-33/ST2 mechanisms controlling gut homeostasis that are deregulated in IBD.
10:00 – 10:30	Dr. Gustavo Moraga-Cid, Faculty of Biological Sciences, University of Concepcion, Chile. Glycine receptors as a therapeutic target in chronic pain: Deciphering the molecular determinants controlling, gating, conductance and sensitivity to allosteric modulators.
10:30 – 10:45	PhD Student Luis Vergara Gómez, Universidad de La Frontera, Temuco, Chile. Proteomic signature of gallbladder cancer exosomes: Deciphering its role in tumor progression and as reservoir of circulating biomarkers.
10:45 – 11:00	PhD Student Martin Hödar Salazar, Universidad de La Frontera, Temuco, Chile. Synthesis and Pharmacological Evaluation of Novel Multi-Target Nicotinic Ligands.
11:00 – 11:10	Break
11:10 – 11:25	PhD Student Alberto Arencibia Núñez, Universidad de La Frontera, Temuco, Chile. Transcriptomic landscape of Vascular Smooth Muscle Cell phenotypic switch.
11:25 – 11:40	PhD Student Lisandra Herrera Belén, Universidad de La Frontera, Temuco, Chile. Design and expression of chimeric L-asparaginase as a potential alternative for the treatment of Acute Lymphoblastic Leukemia.
11:40 – 11:55	PhD Student Claudia Troncoso Muñoz, Universidad de La Frontera, Temuco, Chile. Effect of <i>Helicobacter pylori</i> virulence on progranulin gene expression in gastric tissue of dyspeptic patients.
11:55 – 12:10	Mr. Benjamin Durán-Vinet, Universidad de La Frontera, Temuco, Chile. Towards next-generation colorectal cancer diagnosis: cancer exosomes-derived miRNA for CRISPR/Cas13-based detection.
12:10 – 12:40	Dr. Constanza Martínez Cardozo, Pontificia Universidad Católica de Chile, Santiago, Chile. Smoking habit does not affect the biological responses induced by leucocyte and platelet-rich fibrin.

Day 2

Friday, 26 November 2021
Evening

Symposium IV. Applied Science: the challenge of linking academy and industry

Co-chairs: Dr. Luis A. Salazar Navarrete & Dr. Carmen Gloria Ili Gangas

14:30 – 15:00	Mg. Franklin Valdebenito Godoy, DITT, Universidad de La Frontera, Temuco, Chile. Trampolín Lab: A University program to foster science-based entrepreneurship.
15:00 – 15:20	Dr. Claudio Lamilla Mardones, Universidad de La Frontera, Temuco, Chile. Low environmental impact and low-cost detergent based on biosurfactants obtained from Antarctic bacteria.
15:20 – 15:40	Dr. Daniela León Garrido, Universidad de La Frontera, Temuco, Chile. Development of a cream for topical use with an improved formulation that ensures greater efficacy of photodynamic therapy in the treatment of non-melanoma skin cancer.
15:40 – 16:00	Dr. Andrés Santos Ñanculef, Universitat Autònoma de Barcelona, Barcelona, Spain. Early detection and monitoring of pathogenic microorganisms in the salmon industry.
16:00 – 16:10	Break

Day 2

Friday, 26 November 2021
Evening

16:10 – 17:30	Poster Presentation
17:30 – 18:05	Dr. Gabriela Repetto Lisboa, Centro de Genética y Genómica, Universidad del Desarrollo, Chile. Advancing diagnosis for rare diseases through genomics.
18:05	Dr. Luis Salazar Navarrete, Director of Doctoral Program in Sciences, Major in Applied Cellular and Molecular Biology. Awards posters and Closing Ceremony.