

Workshop Program

Monday, December 2nd

Simposio 1: POLÍTICAS DE DESARROLLO EN CIENCIAS PARA LA COOPERACIÓN UNIVERSIDAD-SOCIEDAD-EMPRESA.

Moderadores: María de la Luz Mora and Francisco Matus.

14:30 – 14:45. Llegada, registro e instalación de posters.

14.45 – 15.00. Bienvenida Víctor Beltrán Varas, Director de la Dirección de Postgrado, Universidad de La Frontera, Chile.

15.00 – 15.15. Bienvenida Francisco Matus Baeza, Director del Programa de Doctorado de Ciencias de Recursos Naturales, Universidad de La Frontera, Chile.

15.15 – 15.45. Pablo Etcharren Ulloa, Encargado Unidad de Ecosistemas Acuáticos y Cambio Climático de la SEREMI de Medioambiente.

Título: Acciones y Desafíos para la descontaminación de la Cuenca del Lago Villarrica.

15.45 – 16.05. Franklin Valdebenito, Director de Dirección de Innovación y Transferencia Tecnológica, Universidad de La Frontera, Chile.

Título: Innovación y Emprendimiento para Postgrado UFRO.

16.05 – 16:15. Consuelo Sotomayor Iribarren, Líder de Investigación Aplicada Gerencia de Innovación Agrosuper.

Título: Investigación Aplicada con Agrosuper.

16.15 – 16.45. Cristian Canales Cartes, Jefe Desarrollo Agropecuario, WATTS S.A.

Título: Agregación de valor a través de la vinculación Universidad-Empresa.

16.45 – 17:15. Emilio Cuevas, Anagra, Chile.

Título: Anagra Green: Resultado de Vinculación Universidad-Empresa Privada..

17.15 – 17.45. Paola Durán, Universidad de La Frontera, Chile.

Título: AgroDNA Kit: La Startup que Lleva la Ciencia al Campo para Detectar Patógenos.

17.45 – 18.15. Paula Aguilera, Myconativa, Chile.

Título: Tendencias y Desafíos para la Innovación y sostenibilidad en el Agro: Experiencia práctica desde la academia al sector productivo.

18.15 – 18.45. **Opening Conference.** Abad Chabbi, INRA, France.

Title: The business case for soil in achieving economic resilience and peace in a changing climate.

19.00. **Welcome Reception. “Vinos y empanadas”**

Tuesday, December 3rd

Symposium 2 (S2): Microbiomes and Food Production.

Co-Chairs: Mabel Delgado and Andrés Ramirez

9.30 – 10.05h. Anathi Magadlela, Sol Plaatje University Kimberley, South Africa.

Title: Eragrostis curvula cultivars reduce soil aluminium concentrations and increase soil pH in acidic savanna and grassland ecosystems.

10.05 – 10.40. Gustavo Habermann, São Paulo State University, Brazil.

Title: The dual nature of aluminum (Al): Physiological effects of Al on sensitive crop species and tolerant Al-accumulating native plants from Brazilian ecosystems.

10.40 – 10.55. Victor Gallardo, PhD student from Doctoral Program in Natural Resources Sciences, Universidad de La Frontera, Chile.

Title: Evaluation of infrared spectroscopy and MALDI-TOF MS as quick methods to detect the susceptibility of opportunistic fungi to Amphotericin B.

11.00 – 11.30. **Coffee break**

11.30 – 12.05. Vânia Vicente, Federal University of Paraná, Brazil.

Title: From environment to the host: Next generation sequencing for elucidate the environmental origin of the fungal species.

12.05 – 12.40. Ricardo Ferraz, School of Health, Polytechnic Institute of Porto, Portugal.

Title: Combination of antimalarial drugs with natural lipids delivers Surface-Active Ionic Liquids with multi-stage antimalarial action

12.40 – 13.15. Rosa Aznar, Universidad de Valencia, Spain.

Title: The Microbial Resource Research Infrastructure (MIRRI), an example of the European Strategy to foster research on bioresources.

13.15 – 15.00. **Lunch**

15.00 – 15.35. Aurora Zuzuarregui, Universidad de Valencia, Spain.

Title: The role of MIRRI-ERIC to facilitate access to high-quality bioresources, services, and facilities.

15.35 – 16.10. Jean Castro, INIA Quilamapu, Chile.

Title: The Microbial Genetic Resource Bank: A Chilean International Depositary Authority for public and patent deposits.

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16.10 – 16.45. Juliana Bittencourt, Postgraduate Program in Biotechnology, Federal University of Technology, Paraná, Brazil.

Title: BioResources: 10 years of microbiological collection at UTFPR - Ponta Grossa Campus, Brazil

16.45 – 17.20. Fabricio Dario Cassán, Universidad Nacional de Río Cuarto, Argentina.

Title: Biological strategies to enhance mineral nutrition in crops. The genus *Azospirillum* and its role in Agriculture 0.0

17.20 – 17.50. **Coffee Break**

17.50 – 19.00. **Poster Session**

Wednesday, December 4th

Symposium 3 (S3): Scientific Entrepreneurship and *Alumni*.

Co-Chairs: Sofia Pontigo and Leyla Parra.

09:00 – 09:30: Alejandra Ribera, Director of Centro Fruticultura, Universidad de La Frontera, Chile.

Title: Applied research and innovation experiences for the strengthening and sustainability of southern Chile Fruticulture.

9.30 – 10.00: Bárbara Fuentes, Universidad Católica del Norte, Chile.

Title: Invisible Connections between the Sea and the Desert: A Case Study of the *Garuma Gull*.

10.00 – 10.30. Mabel Delgado, Scientific and Technological Bioresource Nucleus (BIOREN-UFRO), Chile.

Title: Uncovering some Secrets of Native Forests from Southern South America: A Journey of a Natural Resources PhD Graduate.

10.30 – 11.00. **Coffee Break**

11.00 – 11.30. Jéssica Costa, Federal University of Amazonas, Brazil.

Title: Biofungicides for the Safeguarding of Agrifood Production: Advantages and Limitations for Environmental Health

11.30 – 12.00. Pedro Campos, INIA Carillanca, Chile.

Title: Germoplasm banks and their potential for research and innovation.

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12.00-12.30. Jorge González Villagra, Universidad Mayor, Chile.

Title: Salicylic acid as a key plant hormone to cope with drought stress.

12.30 – 15.00. **Lunch**

Symposium 4 (S4): Circular Economy and Environmental Sustainability

Co-Chairs: María Cristina Diez and Christopher Heyser.

15.00 – 15.35. Esperanza Romero, CSIC, Spain.

Title: Agroindustrial Waste: A Path Towards Sustainable Technologies to Protect Water.

15.35 – 15.50. Nicolas Hoffmann, PhD student from Doctoral Program in Natural Resources Sciences, Universidad de La Frontera, Chile.

Title: Impact of Conductive and Non-Conductive Amendments on Biomethane Production in Sludge Anaerobic Digestion and Pure Archaea Cultures.

15.50 – 16.25. Jorge Perez Quezada, Universidad de Chile, Chile.

Title: From accurate carbon flux measurements to carbon credits.

16.25 – 16.40. Maria Rao, Università degli Studi di Napoli Federico II, Italy.

Title: From waste to soil organic amendments: a sustainable approach to restore soil fertility.

16.40 – 17.15. **Coffee Break**

17.15 – 18.30. **Poster Session**

19.00-23.00. **Dinner**

Thursday, December 5th

Symposium 5 (S5): Applied Ecology and Sustainability.

Co-Chairs: Herbert Venthur and Javier Espinoza

09.00 – 09.35. Manuel Chacón-Fuentes, CGNA, Chile.

Title: Michay: An example of resilience in native berries.

09.35 – 10.10. Dr. William Walker III, Agricultural Research Service U.S. Department of Agriculture, EE.UU.

Title: Molecular Chemical Ecology of the codling moth, *Cydia pomonella*.

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10.10 – 10.45: Liliana Gianfreda, Università degli Studi di Napoli Federico II, Italy.

Title: Enzymes and the environment: Achieved research insights and new challenges.

10:45-11:30. **Coffee break**

11.30 – 11.45. Washington Aníñir, PhD student from Doctoral Program in Natural Resources Sciences, Universidad de La Frontera, Chile.

Title: Role *Araucaria araucana* volatiles in the host selection behavior of *Sinophloeus porter*.

11:45-12:00: Carol Jerez, PhD student from Doctorate in Engineering Sciences with Specialization in Bioprocesses, Universidad de La Frontera, Chile

Title: Effect of different organic acids on the growth of bacteria isolated from Andisols.

12:00-12.15: Carlos Manterola Barroso, PhD student from Doctoral Program in Natural Resources Sciences, Universidad de La Frontera, Chile.

Title: Novel hazelnut shell and modified polyvinyl acetate composite: New industrial particleboard alternatives from non-wood lignocellulosic byproducts.

12:15-12:30: Juan Cumilaf, PhD student from Doctorate in Engineering Sciences with Specialization in Bioprocesses, Universidad de La Frontera, Chile.

Title: Hemp protein Isolate: Functional properties, digestibility and its technological applications for sustainable encapsulation systems in food and biotechnology.

12.30-14.30. **Lunch**

Symposium 6 (S6): International Cooperation on Bioresources.

Co-Chairs: Cledir Santos and Marjorie Reyes.

14.30-15.00. Aurora Zuzuarregui and Rosa Aznar, Universidad de Valencia, Spain.

Title: MIRRI-ERIC paving the way to a sustainable EU-LAC partnership in research on bioresources.

15.00-15.30. Luciane Marinoni, Federal University of Paraná, Brazil

Title: Conference of Zoology in Industry: new technologies and perspectives to help the production chain

15.30- 16.00. Vânia Vicente and Luciane Marinoni, Federal University of Paraná, Curitiba, Brazil.

Title: Paraná Network of Biological Collections - Taxonline: 20 years of quality services, provided to academia and society.

16.00-17.00. Closing Session and Poster Award.

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