

Postgraduate biotechnology course

14-19 November 2016, CCT-North Patagonia.

Av de los Pioneros 2350, San Carlos de Bariloche, Patagonia, Argentina

OMICS AND THEIR ROLE IN BIOTECHNOLOGY



United Nations
University
UNU-BIOLAC

Biotechnology for Latin America and The Caribbean
Programa de Biotecnología para América Latina y el Caribe

UNU-BIOLAC

Biotechnology Programme for Latin America and the Caribbean,
United Nations University

Coordination: **Dra Marta E Goleniowski**



Topics

- Metabolomics: is it here to stay?
- Metabolic engineering for increasing the production of secondary metabolites in plants
- Natural deep eutectic solvents (NADES) as new green solvents and their applications for secondary metabolites production
- GC-MS analysis, NMR, X-ray Fluorescence Spectrometry, and other Methods for the isolation and characterization of genes, proteins, metabolites, and chemical elements in "omics" research

Laboratory

- Plant cell tissue culture: Micropropagation, Callus and Cell Suspension
- Proteomics
- Genetic transformation
- Extraction, detection and determination of secondary metabolites produced by plant cell culture.

Speakers:

Dr Robert Verpoorte. Natural Products Laboratory, IBL, Leiden University, Sylvius Laboratory, Leiden The Netherlands

Dr Rosa Cusidó. Laboratori de Fisiologia Vegetal, Facultat de Farmacia, Universitat de Barcelona, Spain.

Dr Marta Goleniowski. Argentina National Research Council (CONICET), Ministry of Science and Technology, Córdoba, Argentina.

Dr Guillermina Bongiovanni. PROBIEN. CONICET-CCT. North Patagonia, National University of Comahue, Neuquén, Argentina.

Dr Silvia B González
College of Natural Sciences
National University of Patagonia, Esquel, Argentina.

Dr Jaime Morante Carriel. Scientific Research and Technology, Biotechnology Laboratory, State Technical University of Quevedo. Quevedo, Los Ríos, Ecuador.

CREDITS: 40 hours

Academic requirements: Biology, Pharmacy, Agronomical Engineering, Chemistry, and other related careers.

Requirements: Professional competency in the English language.

Registration closes 18/09/16 (places subject to availability)

Financial support: participants may seek support for travel and/or accommodation. **For more information contact mgoleniowski@gmail.com or guillermina.bongiovanni@probien.gob.ar**

PROBIEN

Research and Development Institute. Process Engineering, Biotechnology and Alternatives Energy. Argentina National Research Council (CONICET).

CCT North Patagonia
Scientific and Technological Center, Argentina National Research Council (CONICET).



United Nations
University
UNU-BIOLAC

Biotechnology for Latin America and The Caribbean
Programa de Biotecnología para América Latina y el Caribe