OMICS AND THEIR ROLE IN BIOTECHNOLOGY

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

Postgraduate biotechnology course
Av de los Pioneros 2350, San Carlos de Bariloche, Patagonia, Argentina