BIOTEC VIGO 2019
10 - 13 JUNIO

COMUNICACIONES ORALES

Sesión 1. Biotecnología vegetal			
Hora	**Comunicación**	**Autor**	**Título**
10:00-10:30	Keynote 1	**Fernando Ponz Ascaso** Universidad Politécnica de Madrid	Plants as a source of tools for the development of molecular farming and nanobiotechnology.
10:30-10:50	Oral 1.1	**Eva Lozano Milo** Universidade de Vigo	Establishment of plant cell suspension cultures for the production of bioactive compounds from Kalanchoe.
10:50-11:10	Oral 1.2	**Emilio Montesinos Seguí** Universidad de Girona	Microbial biopesticides to control fungal diseases in grapevine. Production, field monitoring and analysis of the plant response.
11:10-11:30	Oral 1.3	**Filipa Mandim** Instituto Politécnico de Bragança, Portugal - Universidad de Salamanca	Phenolic compounds profiles of different parts of the plant *Cynara cardunculus* L. var. altilis.

Sesión 2. Biotecnología de la salud			
Hora	**Comunicación**	**Autor**	**Título**
10:00-10:30	Keynote 2	**Eugenia Puentes** Zendal	MTBVAC, a new freeze dried vaccine of M. *tuberculosis* against TB.
10:30-10:50	Oral 2.1	**Fernando Mesías** Universidad de Salamanca	Preparation and validation of a DLC (Drug-in-Liposome-in-Cyclodextrin) system in cancer cell lines.
10:50-11:10	Oral 2.2	**María Matos** Universidad de Oviedo	Nanoencapsulation of controlled size superparamagnetic nanoparticles for biomedical applications.
11:10-11:30	Oral 2.3	**Gabriel A. Monteiro** Universidade de Lisboa, Portugal	Minicircle Gene Delivery to Transiently modulate Mesenchymal Stromal Cell function in the context of angiogenesis-based regenerative medicine.

Sesión 3. Biotecnología alimentaria			
Hora	**Comunicación**	**Autor**	**Título**
12:30-13:00	Keynote 3	**Isabel Belo** Universidade do Minho, Portugal	Yarrowia lipolytica as a microbial host for flavors and fragrances production.
13:00-13:20	Oral 3.1	**Martín García González** Universidad Autónoma de Madrid	Synthesis of potential prebiotic sugars by enzymatic extracts from the nectaries yeast *Metschnikowia reukafii.*
13:20-13:40	Oral 3.2	**Fadia Cervantes** Instituto de Catálisis y Petroleoquímica (ICP-CSIC)	Sequential three-step biocatalytic process for the transformation of milk whey into the novel sweetener D-tagatose.
13:40-14:00	Oral 3.3	**Delicia L. Bazán Tantaleán** Universidade de Vigo	Production and characterization of a functional beverage obtained by fermentation of kiwifruit juice with kefir grains.
16:00-16:20	Oral 3.4	**Manuel Rendueles** Universidad de Oviedo	Innovative functional yogurt incorporating microencapsulated calcium lactobionate.
16:20-16:40	Oral 3.5	**Antonio León Vaz** Universidad de Huelva	Nutritional value of different microalgae isolated in the south of Spain and Portugal on the basis of their amino acidic profile.
16:40-17:00	Oral 3.6	**Pascual García Pérez** Universidade de Vigo	Antioxidant potential of Kalanchoe extracts for the preservation of water-in-oil emulsions.
17:00-17:20	Oral 3.7	**Alejandro López Prieto** Universidade de Vigo	Surfactants of microbial origin extracted from agro-industrial wastes: Agrifood applications.
17:20-17:40	Oral 3.8	**Zoran Merdzo Kunovac** Universidad Autónoma de Madrid	Analysing the transferase activity of α-glucosidase GAM1 from *Schwanniomyces occidentalis.*

Sesión 4. Biocatálisis			
Hora	**Comunicación**	**Autor**	**Título**
12:30-13:00	Keynote 4	**Pedro Lozano** Universidad de Murcia	Sustainable chemical processes in ionic liquids and supercritical carbon dioxide.
13:00-13:20	Oral 4.1	**Juan Carro Aramburu** Centro de Investigaciones Biológicas (CIB – CSIC)	Production of furandicarboxylic building block from renewable methoxymethylfurfural through a self-sustained enzymatic cascade.
13:20-13:40	Oral 4.2	**Bernardo J. Gómez** Instituto de Catálisis y Petroleoquímica (ICP - CSIC)	Travelling back and forth: Directed evolution of an ancestral high-redox potential laccase.
13:40-14:00	Oral 4.3	**Cristina Coscolín** Instituto de Catálisis y Petroleoquímica (ICP - CSIC)	Towards the search of powerful enzymes by applying metagenomics and computational techniques.
16:00-16:20	Oral 4.4	**David Fernández Polo** Instituto de Catálisis y Petroleoquímica (ICP - CSIC)	Production of neo-fructooligosaccharides by the b-fructofuranosidase from *Xanthophyllomyces dendrorhous* immobilized by different methodologies.
16:20-16:40	Oral 4.5	**Pablo Aza Toca** Centro de Investigaciones Biológicas (CIB – CSIC)	Characterizacion of a novel fungal laccase synthesized de novo and expressed in yeast by using directed evolution.
16:40-17:00	Oral 4.6	**Peter E. Kidibule** Centro de Biología Molecular Severo Ochoa (UAM - CSIC)	Immobilization of chitinase chit42 on chitosan beads and magnetic nanoparticles for chitooligosaccharides production.
17:00-17:20	Oral 4.7	**Ivan Mateljak** Instituto de Catálisis y Petroleoquímica (ICP - CSIC)	The generation of thermostable fungal laccase chimeras by SCHEMA-RASPP structure-guided recombination in vivo.
17:20-17:40	Oral 4.8	**Jesús Albarrán** Universidad de Oviedo	Design of sequential chemoenzymatic strategies towards optically active allylic alcohols and amines. Use of laccases in combination with alcohol dehydrogenases and amine transaminases.

Sesión 5. Biotecnología industrial

Hora	Comunicación	Autor	Título
10:00-10:30	Keynote 5	**Emilio Molina** Universidad de Almería	Sustainable integrated Algae Biorefinery for the production of bioactive compounds for Agriculture and Aquaculture (SABANA).
10:30-10:50	Oral 5.1	**Alberte Regueira López** Universidade de Santiago de Compostela	Modelling the production of VFA from proteins by mixed culture fermentations.
10:50-11:10	Oral 5.2	**Daniel Bustamante** Centro Nacional de Energías Renovables	Scaling-up continuous lignocellulosic biobutanol production.
11:10-11:30	Oral 5.3	**Felix García Ochoa** Universidad Complutense de Madrid	Dihydroxyacetone production from glycerol using *Gluconobacter oxydans*: a kinetic model.
12:00-12:20	Oral 5.4	**Raquel Aires-Barros** Universidad Técnica de Lisboa, Portugal	A microfluidic platform for downstream process optimization.
12:20-12:40	Oral 5.5	**Helena González Peñas** Universidade de Santiago de Compostela	Evaluation of batch ABE extractive fermentation with solvents of different nature.
12:40-13:00	Oral 5.6	**Augusto Pedro** Universidade de Aveiro, Portugal	Bioprocessing of recombinant proteins using alternative purification platforms.
13:00-13:20	Oral 5.7	**Elisa Alonso González** Universidade de Vigo	Microorganisms for use as a biocatalyst for green chemistry processes.
13:20-13:40	Oral 5.8	**Arnau Gasset** Universidad Autónoma de Barcelona	Gene dosage and specific growth rate impacts on recombinant protein production in *Komagataella phaffi* regulated by the AOX1 promoter.

Sesión 6. Biotecnología ambiental

Hora	Comunicación	Autor	Título
10:00-10:30	Keynote 6	**Eduardo Díaz** Centro de Investigaciones Biológicas (CIB-CSIC)	Exploiting bacterial metabolism for removal of aromatic pollutants and biowaste revalorization.
10:30-10:50	Oral 6.1	**Juan Hernández** Instituto Tecnológico de Sonora, México	Extraction and Quantification of Antibiotics using Aqueous Two-Phase Systems based on Citrate Salts and Acetonitrile.
10:50-11:10	Oral 6.2	**Borja Lagoa Costa** Universidade da Coruña	Cheese whey, a Galician dairy industry by-product, as potential feedstock for VFA production using a mixed culture.
11:10-11:30	Oral 6.3	**Miguel Angulo Vela** Universidad de Salamanca	Hydrolysis of butcher´s waste by Alcalase.
12:00-12:20	Oral 6.4	**Lorena González Gil** Universidade de Santiago de Compostela	Anaerobic populations and enzymes involved in the removal of organic micropollutants.
12:20-12:40	Oral 6.5	**Carmen Menacho** Universidad de Zaragoza	Pilot-scale composting of organic fraction of municipal solid waste for agricultural use.
12:40-13:00	Oral 6.6	**Pedro A. García Encina** Universidad de Valladolid	Valorization of methane emissions into polyhydroxyalkanoates by methanotrophs enriched from Sphagnum mosses: Assessing the effect of temperature and phosphorus limitation.
13:00-13:20	Oral 6.7	**Elena Olaya** Energylab Vigo	Power to gas technology by biological methanation.
13:20-13:40	Oral 6.8	**Gema Lozano Terol** Universidad de Murcia	Gene expression study of *E. coli* growing in glucose and acetate as carbon sources.

Sesión 7. Nuevos retos en biotecnología			
Hora	**Comunicación**	**Autor**	**Título**
10:30-11:00	Keynote 7	**María José Alonso** Universidade de Santiago de Compostela	Impacto de la bio-nanotecnología en el desarrollo de nuevos medicamentos.
11:00-11:20	Oral 7.1	**Álvaro González Garcinuño** Universidad de Salamanca	Synthesis, use and modelling of a gel containing Levan-capped silver nanoparticles for bactericidal purposes.
11:20-11:40	Oral 7.2	**Mª del Carmen Blanco** Universidad de Oviedo	Controlled size nanocolloids production for bioapplications.
11:40-12:00	Oral 7.3	**Sandra Alonso Rubido** Instituto de Catálisis y Petroleoquímica (ICP-CSIC)	ProBone - New tools for prospecting the marine bone-degrading microbiome for novel enzymes.

Sesión 8. Biotecnología microbiana			
Hora	**Comunicación**	**Autor**	**Título**
10:30-11:00	Keynote 8	**Ramón Santamaría** Instituto de Biologia Funcional y Genomica (IBFG)	Modification of regulatory systems in *Streptomyces* to increa antibiotics production.
11:00-11:20	Oral 8.1	**Elizabeth Chávez-Hidalgo** Universidad Nacional Mayor de San Marcos, Perú	Isolation and characterization of xylanolytic bacteria from Cachiyacu of *Lupuna salterns* in Peru.
11:20-11:40	Oral 8.2	**Ramón González García** Instituto de Ciencias de la Vid y del Vino, Logroño	Identification of target genes to reduce acetate yield by *Saccharomyces cerevisiae* under aerobic conditions.
11:40-12:00	Oral 8.3	**Manuel Santiago Godoy** Centro de Investigación Biológica (CIB-CSIC)	Random mutagenesis of *Rhodospirillum rubrum* to improve growth in syngas.