



## COMUNICACIONES ORALES

Sesión 1. Biotecnología vegetal			
Hora	Comunicación	Autor	Título
10:00-10:30	Keynote 1	<b>Fernando Ponz Ascaso</b> 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	<b>Eva Lozano Milo</b> Universidade de Vigo	Establishment of plant cell suspension cultures for the production of bioactive compounds from <i>Kalanchoe</i> .
10:50-11:10	Oral 1.2	<b>Ana Bonaterra</b> 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	<b>Filipa Mandim</b> Instituto Politécnico de Bragança, Portugal - Universidad de Salamanca	Phenolic compounds profiles of different parts of the plant <i>Cynara cardunculus</i> L. var. <i>atilis</i> .

Sesión 2. Biotecnología de la salud			
Hora	Comunicación	Autor	Título
10:00-10:30	Keynote 2	<b>Eugenia Puentes</b> Zendal	MTBVAC, a new freeze dried vaccine of <i>M. tuberculosis</i> against TB.
10:30-10:50	Oral 2.1	<b>Fernando Mesías</b> 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	<b>María Matos</b> Universidad de Oviedo	Nanoencapsulation of controlled size superparamagnetic nanoparticles for biomedical applications.
11:10-11:30	Oral 2.3	<b>Gabriel A. Monteiro</b> 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	<b>Isabel Belo</b> Universidade do Minho, Portugal	<i>Yarrowia lipolytica</i> as a microbial host for flavors and fragrances production.
13:00-13:20	Oral 3.1	<b>Martín García González</b> Universidad Autónoma de Madrid	Synthesis of potential prebiotic sugars by enzymatic extracts from the nectaries yeast <i>Metschnikowia reukafii</i> .
13:20-13:40	Oral 3.2	<b>Fadia Cervantes</b> 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	<b>Delicia L. Bazán Tantaleán</b> 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	<b>Manuel Rendueles</b> Universidad de Oviedo	Innovative functional yogurt incorporating microencapsulated calcium lactobionate.
16:20-16:40	Oral 3.5	<b>Antonio León Vaz</b> 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	<b>Pascual García Pérez</b> Universidade de Vigo	Antioxidant potential of Kalanchoe extracts for the preservation of water-in-oil emulsions.
17:00-17:20	Oral 3.7	<b>Alejandro López Prieto</b> Universidade de Vigo	Surfactants of microbial origin extracted from agro-industrial wastes: Agrifood applications.
17:20-17:40	Oral 3.8	<b>Zoran Merdzo Kunovac</b> Universidad Autónoma de Madrid	Analysing the transferase activity of $\alpha$ -glucosidase GAM1 from <i>Schwanniomyces occidentalis</i> .

### Sesión 4. Biocatálisis

Hora	Comunicación	Autor	Título
12:30-13:00	Keynote 4	<b>Pedro Lozano</b> Universidad de Murcia	Sustainable chemical processes in ionic liquids and supercritical carbon dioxide.
13:00-13:20	Oral 4.1	<b>Juan Carro Aramburu</b> 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	<b>Bernardo J. Gómez</b> 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	<b>Cristina Coscolín</b> 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	<b>David Fernández Polo</b> Instituto de Catálisis y Petroleoquímica (ICP - CSIC)	Production of neo-fructooligosaccharides by the b-fructofuranosidase from <i>Xanthophyllomyces dendrorhous</i> immobilized by different methodologies.
16:20-16:40	Oral 4.5	<b>Pablo Aza Toca</b> Centro de Investigaciones Biológicas (CIB - CSIC)	Characterization of a novel fungal laccase synthesized de novo and expressed in yeast by using directed evolution.
16:40-17:00	Oral 4.6	<b>Peter E. Kidibule</b> 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	<b>Ivan Mateljak</b> 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	<b>Jesús Albarrán</b> 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	<b>Emilio Molina</b> 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	<b>Alberte Regueira López</b> Universidade de Santiago de Compostela	Modelling the production of VFA from proteins by mixed culture fermentations.
10:50-11:10	Oral 5.2	<b>Daniel Bustamante</b> Centro Nacional de Energías Renovables	Scaling-up continuous lignocellulosic biobutanol production.
11:10-11:30	Oral 5.3	<b>Felix García Ochoa</b> Universidad Complutense de Madrid	Dihydroxyacetone production from glycerol using <i>Gluconobacter oxydans</i> : a kinetic model.
12:00-12:20	Oral 5.4	<b>Raquel Aires-Barros</b> Universidade Técnica de Lisboa, Portugal	A microfluidic platform for downstream process optimization.
12:20-12:40	Oral 5.5	<b>Helena González Peñas</b> Universidade de Santiago de Compostela	Evaluation of batch ABE extractive fermentation with solvents of different nature.
12:40-13:00	Oral 5.6	<b>Augusto Pedro</b> Universidade de Aveiro, Portugal	Bioprocessing of recombinant proteins using alternative purification platforms.
13:00-13:20	Oral 5.7	<b>Elisa Alonso González</b> Universidade de Vigo	Microorganisms for use as a biocatalyst for green chemistry processes.
13:20-13:40	Oral 5.8	<b>Arnau Gasset</b> Universidad Autónoma de Barcelona	Gene dosage and specific growth rate impacts on recombinant protein production in <i>Komagataella phaffii</i> regulated by the AOX1 promoter.

## Sesión 6. Biotecnología ambiental

Hora	Comunicación	Autor	Título
10:00-10:30	Keynote 6	<b>Eduardo Díaz</b> Centro de Investigaciones Biológicas (CIB-CSIC)	Exploiting bacterial metabolism for removal of aromatic pollutants and biowaste revalorization.
10:30-10:50	Oral 6.1	<b>Juan Hernández</b> 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	<b>Borja Lagoa Costa</b> 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	<b>Miguel Angulo Vela</b> Universidad de Salamanca	Hydrolysis of butcher's waste by Alcalase.
12:00-12:20	Oral 6.4	<b>Lorena González Gil</b> Universidade de Santiago de Compostela	Anaerobic populations and enzymes involved in the removal of organic micropollutants.
12:20-12:40	Oral 6.5	<b>Carmen Menacho</b> Universidad de Zaragoza	Pilot-scale composting of organic fraction of municipal solid waste for agricultural use.
12:40-13:00	Oral 6.6	<b>Pedro A. García Encina</b> 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	<b>Elena Olaya</b> EnergyLab Vigo	Power to gas technology by biological methanation.
13:20-13:40	Oral 6.8	<b>Gema Lozano Terol</b> Universidad de Murcia	Gene expression study of <i>E. coli</i> growing in glucose and acetate as carbon sources.

## Sesión 7. Nuevos retos en biotecnología

Hora	Comunicación	Autor	Título
10:30-11:00	Keynote 7	<b>María José Alonso</b> Universidade de Santiago de Compostela	Impacto de la bio-nanotecnología en el desarrollo de nuevos medicamentos.
11:00-11:20	Oral 7.1	<b>Álvaro González Garcinuño</b> 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	<b>Gema Gutiérrez</b> Universidad de Oviedo	Controlled size nanocolloids production for bioapplications.
11:40-12:00	Oral 7.3	<b>Sandra Alonso Rubido</b> 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	<b>Ramón Santamaría</b> CIC bioGune - Universidad de Salamanca	Modification of regulatory systems in <i>Streptomyces</i> to increa antibiotics production.
11:00-11:20	Oral 8.1	<b>Elizabeth Chávez-Hidalgo</b> Universidad Nacional Mayor de San Marcos, Perú	Isolation and characterization of xylanolytic bacteria from Cachiyacu of <i>Lupuna salterns</i> in Peru.
11:20-11:40	Oral 8.2	<b>Ramón González García</b> Instituto de Ciencias de la Vid y del Vino, Logroño	Identification of target genes to reduce acetate yield by <i>Saccharomyces cerevisiae</i> under aerobic conditions.
11:40-12:00	Oral 8.3	<b>Manuel Santiago Godoy</b> Centro de Investigación Biológica (CIB-CSIC)	Random mutagenesis of <i>Rhodospirillum rubrum</i> to improve growth in syngas.