Organización ExpoBAC

Comunicaciones Orales

- **Sesión 1: Miércoles 10 de julio (12:00 – 12:30)**
  Sala 1
  - CO-01 *(Bioinformática y ómicas)* - Impact of expressing different CRISPR-Cas13 systems in a bacterial model - **Álvaro Martínez Martínez**
  - CO – 02 *(Bioinformática y ómicas)* - Deep Mutational Scanning of the ALS SOD1 protein to comprehensively map the impact of mutations on protein stability – **Tomás Quiroga**
  - CO-03 *(Bioinformática y ómicas)* - Automation in Molecular Dynamics: Advancing GROMACS Analysis through ASGARD **- Alejandro Rodríguez Martínez**

  Sala 2

  - CO-04 *(Biotecnología agroalimentaria)*- Unveiling mechanistic insights into the anti(neuro)-inflammatory potential of urolithins - **Beatriz Garay Mayol**
  - CO-05 *(Biotecnología agroalimentaria)*- Obtaining safe fungal biofactories using CRISPR/Cas9 for the production of compounds of interest in the agri-food industry - **María Gómez Romero**
  - CO-06 *(Biotecnología agroalimentaria)*- Improvement of extraction methodology white grape seed protein for white wine clarification - **María Dolores Sánchez Gómez**

  Sala 3

  - CO-07 *(Biotecnología médica y animal)* - Evaluation of the therapeutic potential of two histone deacetylase inhibitors in biomedical models of Parkinson ś Disease - **Inmaculada Sanchis Martínez**
  - CO-08 *(Biotecnología médica y animal)* – Impact of particulate matter pollution on an in vitro model of human macrophages - **Celia García-Mota Ballesteros**
  - CO-09 *(Biotecnología médica y animal)* - Assessment of circadian system functioning and sleep in a blind population. A pilot study - **David Martínez Martínez**

  Sala 4

  - CO-10 *(Microbiología y virología)* - Understanding the molecular basis of *Sinorhizobium fredii* HH103- soybean compatibility conferred by bacterial secreted proteins - **Ana María Cutiño Gobea**
  - CO-11 *(Microbiología y virología)* - Analysis of methylation-regulated transcriptional responses in the basal fungus *Rhizopus microsporus* in response to environmental stimuli - **Natalia Nicolás Muñoz**
  - CO-12 *(Microbiología y virología)* - A novel regulator that modulates the expression of genes of the nod regulon of *Sinorhizobium fredii* HH103 - **Sara Lozano Morillo**

- **Sesión 2: Miércoles 10 de julio (16:00 – 16:30)**
  Sala 1
  - CO-13 *(Biotecnología ambiental)* - Mulching with dry pruning residues improves the physical, chemical and microbiological properties of the soil in citrus x lemon crops - **Rafael Olmos Ruiz**
  - CO-14 *(Bioinformática y ómicas)* - TOLEDO: Enhancing Tools for Extended Molecular Dynamics Simulations in Biomedical Research - **Miguel Carmena-Bargueño**
  - CO-15 *(Biotecnologia médica y animal)* - Role of telomerase RNA (TERC) in antitumoral response against glioblastoma - **Inmaculada Martínez Olmo**

Sala 2

- CO-16 *(Biotecnología agroalimentaria)* - Identifying differential germination properties of high- and low-salinity tolerant species - **Ángel Almagro López**
- CO-17 *(Biotecnología agroalimentaria)* - Search for molecular markers for melon stress resistance - **Gloria Bárzana**
- CO-18 *(Biotecnología agroalimentaria)* - Interaction of abiotic and biotic stimulants and their effect on tomato plants - **María Hurtado Navarro**

Sala 3

- CO-19 *(Biotecnología industrial)* - Metabolic engineering, optimization and scale-up of a serotonin overproducer Saccharomyces cerevisiae strain - **Andrés Planells Cárcel**
- CO-20 *(Biotecnología industrial)* - Development of Zero Waste Biogas Plants: A Case Study in Murcia - **Luis Bañón Sánchez**
- CO-21 *(Biotecnología industrial)* - Metabolic and Genetic engineering for the efficient production of industrially value chemicals - **Carlos Azogue Palma**

Sala 4

- CO-22 *(Microbiología y virología)* – Phage isolation of *Tenacibaculum* sp. - **Marina García Cervera**
- CO-23 *(Microbiología y virología)* - Isolation and Description of New Amelanogenic Strains of *Marinomonas mediterranea* - **Víctor Andrés González**
- CO-24 *(Microbiología y virología)* - A two-component system regulates different bacteriophage defense systems across *Marinomonas mediterranea* strains - **Christian Martínez Jiménez**

- **Sesión 3: Jueves 11 de julio (12:00 – 12:30)**

Sala 1

- CO-25 *(Nano(bio)tecnología)* – Fluorescent N-Acetyl-L-Cysteine gold nanoclusters for the detection of sympathomimetic drugs - **Helena Sanz Andrés**
- CO-26 *(Nano(bio)tecnología)* - Broccoli Aquaporin Proteoliposomes: A Nanocarrier for Resveratrol Delivery - **Lucía Yepes Molina**
- CO-27 *(Nano(bio)tecnología)* - Exploring the efficiency of nanoencapsulated Brassicaceae sprouts extracts against *Helicobacter pylori* - **Paula García Ibáñez**

Sala 2

- CO-28 *(Biotecnología agroalimentaria)* - Effect of AgNPs on defense-related genes expression of *in vitro* apricot plants - **Marina Martín de Valmaseda Sánchez**
- CO-29 *(Biotecnología agroalimentaria)* - Foliar Application of Flavonoids as Tomato Plants Biostimulators by enhancing Growth and modification of Gene Expression - **Alberto Martínez Alonso**
- CO-30 *(Biotecnología agroalimentaria)* - Exploring plant by-product extracts as priming agents - **Lorena Albaladejo Maricó**

Sala 3

- CO-31 *(Biotecnología médica y animal)* - Characterisation of Variants in the C3 Component of Complement Associated with Pathology - **Marta Martínez López**
- CO-32 *(Biotecnología médica y animal)* - Characterization of zebrafish models of the NEDAMSS rare disease - **Celia Muñoz Menzinger**

- CO-33 *(Biotecnología médica y animal)* - Hypoxia-induced Bhlhe40 is a key regulator of proliferation and angiogenesis in mouse embryoid bodies - **Ana Isabel Gil Acero**

Sala 4

- CO-34 *(Microbiología y virología)* - Searching for novel antimicrobials through functional metagenomics - **Luis Andreo Andreu**
- CO-35 *(Microbiología y virología)* - Antimicrobial resistance study of bacterial isolates in Turkana County (Kenya) - **Pablo Fiel Berbejal**
- CO-36 *(Microbiología y virología)* - Characterising the *Sinorhizobium fredii* USDA257 Type VI Secretion System - **Pedro José Reyes Pérez**
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Sesiones de Póster

- P-01 (*Biotecnología médica y animal)* – Anti-EPO antibodies as a cause of pure acquired red series aplasia - **Eulalia Campos Baños**
- P-02 (*Biotecnología médica y animal)* – Antitumor activity of novel tryptophan-derived betaxanthins in *Caenorhabditis elegans* - **Paula Henarejos Escudero**
- P-03 (*Biotecnología médica y animal)* – An iPSC model to study the role of MHC-I and MHC-II in neurodegeneration and regeneration of ALS - **Alba Tomas Sitjes**
- P-04 (*Biotecnología médica y animal)* – Studying the role of ketonic bodies in the induction of innate immune memory - **Iria López Estrada**
- P-05 (*Biotecnología médica y animal)* – Hydroxytyrosol alpha- and gamma-linolenate: optimization of the synthesis by enzymatic route - **Lucía Domínguez Gámbez**
- P-06 (*Biotecnología médica y animal)* – Development of a zebrafish model of Huppke-Brendel síndrome - **Antonio Aranega Conesa**
- P-07 (*Biotecnología médica y animal)* – MAPK and leukaemia: a mystery - **Juan José Garzón Bravo**
- P-08 (*Biotecnología médica y animal)* – Screening of peptide phage display libraries for the identification of high-affinity binding candidates against herpes simplex virus 1 - **Alejandro Martín Almendros**
- P-09 (*Biotecnología médica y animal)* – Early Recognition Events in Hybrid Amyloid Assembly Spotted at Atomic Resolution - **Sara Andrés Campos**
- P-10 (*Biotecnología médica y animal)* – Fighting frontotemporal dementia: uncovering the potential of cb 2 receptor antagonists - **Ignacio Silva Llanes**
- P-11 (*Biotecnología médica y animal)* – The role of p38γ and p38δ in epithelial cells in ulcerative colitis - **Marta Meireles da Silva Gil**
- P-12 (*Biotecnología médica y animal)* – Developing colorectal cancer co-culture models for the assessment of lymphocytic infiltration - **Carlos Mateos Sánchez**
- P-13 (*Biotecnología médica y animal)* – Multi-omics evaluation of the activity of encapsulated olive leaf extracts in obesity management - **Marta Fernández Oliver**
- P-14 (*Biotecnología médica y animal)* – Intestinal permeability study of two dietary polyphenols with anorexigenic effects through GLP-1 modulation in Caco-2 cell monolayers - **Marta Fernández Oliver**
- P-15 (*Biotecnología médica y animal)* – Optimization of the obtention of antimicrobial extracts from Galician mussels (*Mytilus galloprovincialis*) for applications in aquaculture - **Raúl Bonet García**
- P-16 (*Biotecnología médica y animal)* – Study of the molecular mechanisms underlying the antiviral activity of natural extracts with potential application in aquaculture - **Raúl Bonet García**
- P-17 *(Biotecnología agroalimentaria)* – Optimization of lemon nanovesicles extraction for advanced applications - **María Gómez Molina**

- P-18 *(Biotecnología agroalimentaria)* - Optimization of *in vitro* culture protocols for *Vigna radiata* L. as model cells to safener studies using melatonin - **Manuela Giraldo Acosta**
- P-19 *(Biotecnología agroalimentaria)* - Different doses of spent mushroom substrate for new production cycles - **Wagner Gonçalves Vieira Junior**
- P-20 *(Biotecnología agroalimentaria)* - Recovered collagen hydrolyzed with plant protease to produce peptides with ACE inhibitory activity - **Laura María Isabel López**
- P-21 *(Biotecnología agroalimentaria)* - Study of introgression lines in melon to find resistance to Macrophomina phaseolina - **Miguel Ángel Moreno Martínez**
- P-22 *(Biotecnología agroalimentaria)* - Production of antifungal proteins using filamentous fungi as biofactories - **María Gómez Romero**
- P-23 *(Biotecnología agroalimentaria)* - Process for selection and characterization of different *Lactiplantibacillus plantarum* strains as malolactic fermentation starter culture - **Celia Barreiro Obregón**
- P-24 *(Biotecnología agroalimentaria)* – Characterization of genes involved in development and response to abiotic factors in *Capsicum annuum* - **Stephany Mares Ledesma**
- P-25 *(Biotecnología agroalimentaria)* – Antioxidant Power of Edible Substrates Fermented with Lignocellulolytic Fungal Mycelia - **Mónica López González**
- P-26 *(Biotecnología agroalimentaria)* – Production of bioactive compounds in *Daucus carota* (L.) cell cultures under elicitation conditions - **José Manuel Correa Sabater**
- P-27 *(Biotecnología agroalimentaria)* – Influence of Aquaporins on the availability of water from substrates for growing cannabis, as well as their impact on the CBD performance - **Nidia Edith Ortiz Delvasto**
- P-28 *(Biotecnología agroalimentaria)* – From Darkness to Light: Molecular Mechanisms of Broccoli Blindness - **Juan Nicolás Espinosa**
- P-29 *(Biotecnología agroalimentaria)* – Enhancing tomato crop under water stress by phenolic compounds and beneficial microorganisms - **María Hurtado Navarro**
- P-30 *(Biotecnología agroalimentaria)* – Effects of salinity on the growth of 4 broccoli cultivars - **Ángel Almagro López**
- P-31 *(Biotecnología agroalimentaria)* – Role of the transcription factor Slcia2 in plant development and hormone signalling in tomato cv. Micro-Tom - **Inmaculada Román García**
- P-32 *(Biotecnología agroalimentaria)* – Pilot-scale production of bio-based fertilizers through Black soldier fly bioconversion process - **María José González Fernández**
- P-33 *(Biotecnología agroalimentaria)* – TOMAGROUP: Development of sustainable biostimulants for circular fertilisation of tomato crops - **María José González Fernández**
- P-34 *(Biotecnología agroalimentaria)* – Tools for functional analysis of *Botrytis cinerea* natural mutants altered in patogenicity and development - **Vlad Paul Mihaila Novac**
- P-35 *(Biotecnología agroalimentaria)* – Modulating broccoli metabolism gene expression trough plant extract application - **Lorena Albaladejo Maricó**
- P-36 *(Biotecnología agroalimentaria)* – Improvement of the physicochemical limitations of rhapontigenin - **Antonio Sánchez Belmonte**
- P-37 *(Biotecnología industrial)* – Understanding the enzymatic synthesis of a new branched ester: 1,10-decyl di-2-methylpentanoate - **Mª Dolores Murcia Almagro**
- P-38 *(Biotecnología industrial)* – Optimization and kinetics of the biosynthesis of 2-butyloctyl laurate - **Mª Dolores Murcia Almagro**
- P-39 *(Biotecnología ambiental)* – Construction and evaluation of TadA-T7RNApol system as an *in vivo* directed evolution tool - **Alejandro Serrano Sánchez**
- P-40 *(Biotecnología ambiental)* – Study and selection of endophytic bacteria isolated from different plant species from the salt pans of the Bay of Cadiz Natural Park - **Nieves Rodríguez Sanchez de Molina**

- P-41 *(Biotecnología ambiental)* – Optimising the enzymatic synthesis of solvent-free bis(2-ethylhexyl) adipate: a sustainable alternative for lubricants, cosmetics and biodiesel - **Ángel Magdaleno Molina**
- P-42 *(Biotecnología ambiental)* – Degradation of lipid regulators by the fungus *Penicillium oxalicum* XD3.1 - **Maya Sánchez Martínez**
- P-43 *(Biotecnología ambiental)* – Unravelling the connection between glutathione reductase (GR) and the circadian clock signalling network and its interaction with saline stress in *Arabidopsis thaliana* - **Desiré Cano Yelo**
- P-44 *(Biotecnología ambiental)* – Metabarcoding applications in the analysis of fish diet and trophic ecology - **Idelfonso Palencia Álvarez**
- P-45 *(Biotecnología ambiental)* – Redox regulation of plant autophagy and ABA signalling by thioredoxin o1 through modulation of ATG4 and PYR1 - **Sabrina Analía De Brasi Velasco**
- P-46 *(Biotecnología ambiental)* – Role of thioredoxin o1 in autophagy and stomatal aperture in *Arabidopsis thaliana* plants under salinity - **Raquel López Martínez**
- P-47 *(Biotecnología ambiental)* – Innovative strategies to improve control of invasive species: spray- induced gene silencing (SIGS) - **Juan Pedro Martínez-García**
- P-48 *(Nano(bio)tecnología)* - Giant Unilamellar Vesicles responsive to physical stimuli - **Pablo José Alarcón Meseguer**
- P-49 *(Nano(bio)tecnología)* - Membrane vesicles from Broccoli as Potential Nanocarriers for Bioactive Compounds - **Lucía Yepes Molina**
- P-50 *(Nano(bio)tecnología)* - Bionanoencapsulation of Bimi® extracts increases biodisponibility for a low-grade inflammation hepatocyte model - **Paula García Ibáñez**
- P-51 *(Bioinformática y ómicas)* - T-Cell Receptor Diversity in knee Osteoarthritis patients - **María Marco Salvador**
- P-52 *(Microbiología y virología)* – Autophagy inducers and the role of the cAMP-PKA signalling pathway in the dimorphic yeast *Schizosaccharomyces japonicus* - **Miriam Sánchez Giménez**
- P-53 *(Microbiología y virología)* - Role of the cAMP-PKA pathway during regulation of actin cytoskeleton integrity and cytokinesis in *Schizosaccharomyces pombe* - **Antonio Marín Castillo**
- P-54 *(Microbiología y virología)* - Phenotypic analysis of the synthetic alteration of cyclic diguanylate levels in various strains of rhizobia - **Juan Aranda Pérez**
- P-55 *(Microbiología y virología)* - Activity of Meropenem-Vaborbactam against multidrug-resistant clinical isolates of *Pseudomonas aeruginosa* - **Alejandro Virués Morales**
- P-56 *(Microbiología y virología)* - Engineering *E. coli* for targeted tumor cell invasion and toxin delivery - **Ana Ferrández Múrtula**
- P-57 *(Microbiología y virología)* - CRIPSR-Cas regulatory mechanisms: Significance of σ/anti-σ DdvS/DdvA pairing in the bacterium *Myxococcus xanthus* - **Ana María Crevillén Caracena**
- P-58 *(Microbiología y virología)* - Exploring the potential role of a *Rhizobium tropici* CIAT 899 glycosyl-hydrolase protein in rhizobium-legume symbiosis through extracellular membrane vesicles - **Alexia Elisenda López Borrás**
- P-59 *(Microbiología y virología)* - Testing of repositioned drugs in the *in vivo* model *Galleria mellonella* larvae infected with *Staphylococcus aureus* - **Helena Álvarez Ferrero**
- P-60 *(Microbiología y virología)* - Importance of mapping and zoning in the environmental microbiological plan, for control of *Listeria monocytogenes*, in frozen vegetable industry - **Irene García Panadero**
- P-61 *(Microbiología y virología)* - Identifying new last-resource antibiotic resistance mechanisms through functional metagenomics - **Luis Andreo Andreu**