BIOTEC VIGO 2019
10 - 13 JUNIO

COMUNICACIONES PÓSTER

Biotecnología vegetal		
Comunicación	**Autor**	**Título**
Póster 1.1	**Angeles Bernal Pita da Veiga** Universidade da Coruña	Induction of resistence in cell suspensions of pepper (Capsicum annuum L.annuum) by elicitation with extracts of Moringa oleifera leaves.
Póster 1.2	**Antonio León-Vaz** Universidad de Huelva	New molecular tools for the expression of foreign genes in microalgal nucleus.
Póster 1.3	**Esther Badosa** Universidad de Girona	Antimicrobial and defence elicitor peptides in plant protection. From nature to the biotechnological product.
Póster 1.4	**Eva Lozano Milo** Universidade de Vigo	Influence of culture media composition and solvent aqueous ratio on phenolic content and antioxidant activity of Kalanchoe cultured in vitro.
Póster 1.5	**Laura Iglesias-Bernabé** Universidade de Vigo	Study of ectomycorrhizae communities in young chestnut trees using ITS sequences.
Póster 1.6	**Tomás Ariel Arteta Arteta** Universidade de Vigo	Identification of key factors to optimize plant tissue culture using neurofuzzy logic.

Biotecnología de la salud		
Comunicación	**Autor**	**Título**
Póster 2.1	**Eva Martín del Valle** Universidad de Salamanca	Polydopamine nanoparticles: a study of the conditions that determine their size and loading-capacity of different metals.
Póster 2.2	**Lorena Rodríguez** Universidade de Vigo	Evaluation of salicylic acid permeation through silicone membrane in presence of biosurfactant produced from corn steep wáter.
Póster 2.3	**Myriam Rincón Fontán** Universidade de Vigo	A biosurfactant extract obtained from corn as L-ascorbic acid stabilizer.
Póster 2.4	**Gabriel A. Monteiro** Universidade de Lisboa, Portugal	Engineering high copy number plasmids for pharmaceutical-grade pDNA production in Lactococcus lactis.

Biotecnología alimentaria

Comunicación	Autor	Título
Póster 3.1	**Ana González Abril** Universidade de Santiago de Compostela	Peptide biomarkers for biogenic amine-producing bacterial characterization by LC-ESI-MS/MS.
Póster 3.2	**Ana González Abril** Universidade de Santiago de Compostela	Peptide biomarkers for mastitis producing Streptococcus spp. identification and characterization by LC-ESI-MS/MS.
Póster 3.3	**Andrea Ramilo** Instituto de Investigaciones Marinas-CSIC	Fish Parasite Biobank: supplier of sample and data for studying the genetic structure of zoonotic Anisakis spp. from European hake Merluccius merluccius.
Póster 3.4	**Andrea Ramilo** Instituto de Investigaciones Marinas-CSIC	Analysis of the composition of commercial fish feed by NGS: implications for parasite risk exposure assessment.
Póster 3.5	**Carmen Sieiro Vázquez** Universidade de Vigo	Putative probiotic lactic acid bacteria isolated from non-conventional sources.
Póster 3.6	**Clara Fuciños González** Universidade de Vigo	Potential of surplus harvest vegetables as new sources of protein for human consumption.
Póster 3.7	**Clara Fuciños González** Universidade de Vigo	Dairy hydrolysates obtained using an enzymatic extract from Aspergillus niger.
Póster 3.8	**Emilio Rosales** Universidade de Vigo	Polyunsaturated fatty acid production by microalgae: optimisation and scale-up.
Póster 3.9	**Emilio Rosales** Universidade de Vigo	Amelioration of Omega-3 docosahexaenoic acid production by microalgae.
Póster 3.10	**Georgia María González Meza** Instituto Técnico de Sonora, México	Effectiveness of dietary supplementation of microalgae as aquafeed additives for the juvenile white prawn, Litopenaeus vannamei.
Póster 3.11	**Ismael Marcet Manrique** Universidad de Oviedo	A new procedure to prepare edible films from porcine and bovine blood proteins.
Póster 3.12	**Ismael Marcet Manrique** Universidad de Oviedo	Influence of egg yolk proteins on the physical properties of gum arabic microparticles loaded with polyphenols.
Póster 3.13	**Ruth Gabriela Ulloa Mercado** Instituto Técnico de Sonora, México	Antioxidant capacity of macro and micro algae extracts of fresh and marine water with potential application in aquaculture.
Póster 3.14	**Manuel Ayuso Vilaboa** Universidade de Vigo	Improving the nutraceutical potential of Eryngium viviparum J. Gay through in vitro culture elicitation.
Póster 3.15	**Manuel Ayuso Vilaboa** Universidade de Vigo	Valorisation of a threatened plant species through in vitro culture elicitation of phenolic compounds.
Póster 3.16	**Manuel Rendueles de la Vega** Universidad de Oviedo	Elaboration of films-based antibacterial plant extracts to preserve liquid food products.
Póster 3.17	**María José Chapela Garrido** ANFACO	BIOFUNCTIONAL CHARACTERIZATION OF PROTEIN HYDROLYSATES OBTAINED FROM COD (Gadus morhua) BYPRODUCTS.
Póster 3.18	**Maria Jose Larrazabal** Universidad Antofagasta, Chile	Effect of the stages of the deodorization process of cochayuyo (Durvillaea antarctica) on the yield and minerals and dietary fiber content, of deodorized algae flour.
Póster 3.19	**Marino B. Arnao** Universidad de Murcia	Phytomelatonin as a natural alternative to synthetic melatonin in food supplements and others applications.
Póster 3.20	**Mario Díaz** Universidad de Oviedo	Rheological properties and development of Staphylococcus sp. in structured foods.
Póster 3.21	**Montse Pérez** Instituto Español de Oceanografía	Is the correct identification of chimaera a chimera?
Póster 3.22	**Nuno Brito** Instituto Politecnico de Viana do Castelo, Portugal	Implementation of the traceability process in products of autochthonous Portuguese poultry breeds.
Póster 3.23	**Nuno Brito** Instituto Politecnico de Viana do Castelo, Portugal	Implementation of a traceability system in the rooster production controlled by the "Confraria Gastronómica O Galo de Barcelos".
Póster 3.24	**Pascual García Pérez** Universidade de Vigo	Study of the adsorption procedure of phenolics from Kalanchoe aqueous extracts onto activated carbón.

Biocatálisis		
Comunicación	**Autor**	**Título**
Póster 4.1	**Abel Muñiz Mouro** Universidade de Santiago de Compostela	Re-using laccase for the production of oligorutin in a reaction media free of organic solvents.
Póster 4.2	**Ana Serrano** Centro de Investigaciones Biológicas (CIB-CSIC)	Changes in the substrate preference of aryl-alcohol oxidase allows a stereoselective oxidation of secondary alcohols.
Póster 4.3	**Ángela Mourelle Insua** Universidad de Oviedo	A designer natural deep eutectic solvent to recycle the nicotinamide cofactor in alcohol dehydrogenase-catalysed bioreductions.
Póster 4.4	**Carmen Sieiro Vázquez** Universidade de Vigo	Functional expression and characterization on a new chitinase from Pseudoalteromonas tunicata with nematicidal activity.
Póster 4.5	**Christian Bolaño** Universidade de Vigo	Copper and polymerized lignin by laccase as wood treatment for marine uses.
Póster 4.6	**Elena Álvarez González** Universidad de Murcia	Sustainable enzymatic synthesis of panthenyl monoesters in ionic liquids.
Póster 4.7	**Elena Álvarez González** Universidad de Murcia	Sustainable approach for the synthesis of sorbitol monoesters in Ionic Liquids
Póster 4.8	**Fernando López Gallego** Universidad de Zaragoza	Cell-free immobilized multi-enzyme systems; from the design to the application.
Póster 4.9	**Fuensanta Máximo** Universidad de Murcia	Enzymatic alcoholysis of dimethyl adipate by 2-ethylbutanol. Clean synthesis of biolubricants in solvent-free medium.
Póster 4.10	**Fuensanta Máximo** Universidad de Murcia	Lipase comparison in solvent-free neopentyl glycol dilaurate synthesis.
Póster 4.11	**José L. González-Alfonso** Instituto de Catálisis y Petroleoquímica (ICP-CSIC)	Combined use of cyclodextrin glucanotransferase from Geobacillus sp. and amyloglucosidase from Saccharomyces cerevisiae to produce glucosylated derivatives of rutin.
Póster 4.12	**Julia Gallego** Universidad de Murcia	Nicotinate phosphoribosyltransferase Escherichia coli characterization.
Póster 4.13	**Manuel Becerra** Universidade da Coruña	Characterization of a novel thermostable lypolitic hydrolase found by functional metagenomics from a hot spring.
Póster 4.14	**María Asunción Molina Esquinas** Instituto de Catálisis y Petroleoquímica (ICP-CSIC)	In-situ and post-synthesis Immobilization of lipase CALB on MOF NH2-MIL-53(Al).
Póster 4.15	**Maria de Fátima Serralha** CiQuiBio, Instituto Politécnico de Setúbal, Portugal	Esterification reactions in free solvent systems with cutinase covalently immobilized or only by adsorption.
Póster 4.16	**María J. Hernáiz** Universidad Complutense de Madrid	Chemoenzymatic synthesis of muramic and glucuronic acids derivatives and preparation of multivalent dendrimers as Dengue virus antagonists.
Póster 4.17	**María J. Hernáiz** Universidad Complutense de Madrid	Chemoenzymatic strategies for the preparation of glycoproteins of interest and molecular modelling studies of the enzyme-substrate recognition.
Póster 4.18	**Marina García Ramos** Universidad de Oviedo	Stereoselective reduction of halogenated ketones with an alcohol dehydrogenase from Pichia Glucozyma overexpressed in E.coli.
Póster 4.19	**Noa Míguez Rodríguez** Instituto de Catálisis y Petroleoquímica (ICP-CSIC)	Selective production and characterization of acidic xylooligosaccharides from beechwood xylan by an enzymatic cocktail.
Póster 4.20	**Rocío Villa Aroca** Universidad de Murcia	Biocatalytic synthesis of oxygenated biofuels through the technologies of ionic liquids and supercritical carbon dioxide.
Póster 4.21	**Rosa M. Blanco** Instituto de Catálisis y Petroleoquímica (ICP-CSIC)	Preparation of SBA-15 in different conditions to obtain optimal supports for laccase immobilization.
Póster 4.22	**Sergio Gonzalez-Granda** Universidad de Oviedo	Laccase-catalyzed oxidations of propargylic alcohols. Application to deracemization experiments by combination with alcohol dehydrogenases.

Biotecnología industrial		
Comunicación	**Autor**	**Título**
Póster 5.1	**Aloia Romaní** Universidade de Santiago de Compostela	Autohydrolysis followed by ionic liquid treatment for Eucalyptus globulus wood fractionation.
Póster 5.2	**Augusto Pedro** Universidade de Aveiro, Portugal	Preparative chromatography of recombinant nucleic acids using ionic liquids as multimodal ligands.
Póster 5.3	**Daniel Bustamante** Universidad de Valencia	Medium chain length polyhydroxyalkanoates production from Camelina oil.
Póster 5.4	**Eva Garcia-Ruiz** Centro Instituto de Catalisis y Petroleoquímica, ICP-CSIC	MEP pathway optimization by directed enzyme evolution to produce highly valuable chemicals in microbes.
Póster 5.5	**Francisco Valero** Universidad Autónoma de Barcelona	Growth rate and final protein production can be dramatically increased by using a secretion signal that drives the proteins through co-translational translocation in Pichia pastoris.
Póster 5.6	**Francisco Valero** Universidad Autónoma de Barcelona	The new derepressible promoter P2: a promising expression system for methanol-free recombinant protein production in Pichia pastoris.
Póster 5.7	**Francisco Valero** Universidad Autónoma de Barcelona	Oxygen-limiting conditions to improve recombinant protein production in Pichia pastoris regulated by the GAP promoter.
Póster 5.8	**Gabriela Lama Rodríguez** Universidade de Vigo	Evaluation of the bioreactor configuration in the production of microalgae Crypthecodinium cohnii.
Póster 5.9	**Gabriela Lama Rodríguez** Universidade de Vigo	Optimization of the culture medium for growth and DHA production of microalgae Crypthecodinium cohnii.
Póster 5.10	**Iván Borrageiros Torres** Universidade de Vigo	Simulation of biobutanol production at industrial scale.
Póster 5.11	**María C. Veiga** Universidade da Coruña	Acetogenic bioconversion of greenhouse gases (CO_2, CO) and syngas to fuel-alcohols.
Póster 5.12	**Marta Muñoz** CETEM	Citrus processing waste valorisation for the production of pigments by fungi fermentation.
Póster 5.13	**Michele Michelin** Universidade do Minho, Portugal	Ohmic heating as a pre-treatment to recovery bioactive compounds from vine pruning residues.
Póster 5.14	**Riccardo Bevilacqua** Universidade de Santiago de Compostela	Steering volatile fatty acid production during protein fermentation by adjusting substrate composition and pH.
Póster 5.15	**Sara Silvério** Universidade do Minho, Portugal	Production of fungal pigments using cheese whey as alternative fermentation médium.
Póster 5.16	**Sonia Gullón Blanco** Centro Nacional de Biotecnología (CNB-CSIC)	Proteins involved in the acquisition of the active structure of the secreted proteins in Streptomyces lividans.
Póster 5.17	**Victoria E. Santos Mazorra** Universidad Complutense de Madrid	Succinic acid production from xylose by Actinobacillus succinogenes: influence of inoculum built up.

Biotecnología ambiental		
Comunicación	**Autor**	**Título**
Póster 6.1	**Ana Canabal** Universidade de Vigo	Scaling-up Ionic Liquid biodegradation: sequencing batch for fixed-bed reactor.
Póster 6.2	**Ana Canabal** Universidade de Vigo	Hugging a green approach to remove antibiotics from swine wastewater.
Póster 6.3	**Antón Puga Pazo** Universidad de Vigo	Wastes from hydrocolloid and fibre industry as low-cost adsorbents: adsorption and regeneration.
Póster 6.4	**Eduardo Beltrán Flores** Universidad Autónoma de Barcelona	Study of the sorption process and removal of diuron by Trametes versicolor immobilised in wood chips in a biodisc reactor operating in continuous mode
Póster 6.5	**Elisa González Romero** Universidad de Vigo	Challenges in analysis and remediation of pharmaceutical pollution in water: A human concern.
Póster 6.6	**Laura Domínguez Más** Instituto Superior de Engenharia do Instituto Politécnico do Porto, Portugal	Evaluation of the adsorption potential of biochar prepared from vine shoots for the removal of pirimicarb.
Póster 6.7	**Lois Morandeira** Universidad de Vigo	Scaling-up Ionic Liquid biodegradation: immobilization approach for fixed-bed reactor.
Póster 6.8	**María Arellano Pardo** Universidad de Vigo	Bioelectro-Fenton process, a promising system for the removal of ionic liquids?
Póster 6.9	**María C. Veiga** Universidad de A Coruña	Valorization of sewage sludge to produce volatile fatty acids through acidogenic fermentation: batch and continuous reactor experiments.
Póster 6.10	**Nariane de Andrade** Universidad de Vigo	Vermicomposting increases bacterial diversity and changes composition and function yielding a high quality plant biostimulant.
Póster 6.11	**Mario Díaz** Universidad de Oviedo	Biological treatment of anaerobic digestion liquor by white-rot fungi.
Póster 6.12	**Miguel Angulo Vela** Universidad de Salamanca	Effects of different enzymes on the enzymatic hydrolysis of proteins from butcher's waste.
Póster 6.13	**María Elena Olaya Pérez** Energylab Vigo	Low cost biogas upgrading using ashes.
Póster 6.14	**Pedro Antonio García Encina** Universidad de Valladolid	Anaerobic degradation of sulfamethoxazole using anthraquinone-2-sulfonate as redox mediator.
Póster 6.15	**Regina Michaela Wittich** EEZ-CSIC (Granada)	Ibuprofen, diclofenac and triclosan dissipation and associated microbial ecotoxicity in biopurification systems.
Póster 6.16	**Silvia Escudero** Universidad de Vigo	Removal of pharmaceutical compounds in wastewater using biochar from rice bran as adsorption matrix.
Póster 6.17	**Verónica Poza Nogueiras** Universidad de Vigo	Water remediation by means of chestnut shell wastes.

Nuevos retos en biotecnología		
Comunicación	**Autor**	**Título**
Póster 7.1	**Noelia González Ballesteros** Universidad de Vigo	Application of the invasive macroalgae Undaria pinnatifida in the synthesis of gold and silver nanoparticles.
Póster 7.2	**Noelia González Ballesteros** Universidad de Vigo	Food waste application in the synthesis of gold nanoparticles. The case of Galician Brassica oleracea var. Acephala.

Biotecnología microbiana

Comunicación	Autor	Título
Póster 8.1	**Carmen Menacho** Centro de Investigaciones Biotecnológicas de Ecuador, Ecuador	A Bacillus sp. strain for biosurfactants production as biofungicides of pathogenic cocoa fungi Moniliophtora perniciosa and Moniliphtora roreri.
Póster 8.2	**Eduardo Santero** Universidad Pablo de Olavide	Cross-talks between two paralogous cascades contribute to the regulation of the General Stress Response in Sphingopyxis granuli TFA.
Póster 8.3	**Eva M. Camacho** Universidad Pablo de Olavide	Characterization of an ibuprofen-eater bacteria.
Póster 8.4	**Jesús Aparicio Fernández** Universidad de León	SfbR2, a pseudo-gamma-butyrolactone receptor from Streptomyces filipinensis represses filipin production.
Póster 8.5	**Jesús Aparicio Fernández** Universidad de León	Streptomyces tsukubaensis production of the immunosuppressant tacrolimus: negative effect of adpA regulator as revealed by the use of a microcultivation system.
Póster 8.6	**Juan Gerardo Hernández Delgado** Centro de Investigaciones biológicas (CIB-CSIC)	Deciphering the Regulation of safracin cluster in Pseudomonas poae strain PMA22.
Póster 8.7	**Julia Gallego Jara** Universidad de Murcia	Active and thermostable E. coli large-oligomer protein.
Póster 8.8	**Lois Morandeira** Universidade de Vigo	Brad-new ability of acclimated Pseudomonas strain in the presence of neoteric pollutans.
Póster 8.9	**Lorena Rodríguez** Universidade de Vigo	Evaluation of the extraction process of biotechnologically produced biosurfactant from Lactobacillus pentosus.
Póster 8.10	**Manuel Becerra** Universidade da Coruña	Study of the changes induced in the organoleptic properties of beer after genetic modification of yeast.
Póster 8.11	**Ramón González García** Instituto de Ciencias de la Vid y del Vino, Logroño	Characterization of extracellular vesicles produced by wine yeast strains under winemaking conditions.
Póster 8.12	**Sergio Bordel** Universidad de Valladolid	Genome scale metabolic modeling reveals the metabolic potential fo three type II methanotrophs fo the genus Methylocystis.

Biotecnología azul

Comunicación	Autor	Título
Póster 9.1	**María José Chapela Garrido** ANFACO-CECOPESCA	Study of the antimicrobial activity of different species of microalgae extracts against pathogenic bacteria in aquaculture.
Póster 9.2	**Emilio Molina** Universidad de Almería	Simultaneous extraction and fractionation of lipids from the marine microalga Nannochloropsis sp. for the production of EPA rich polar lipid concentrates.

Biotecnología y sociedad

Comunicación	Autor	Título
Póster 10.1	**Leandro Jorge Guimarães de Oliveira** Universidade Católica Portuguesa - CBQF, Portugal	NAFEI – Un proyecto de movilización de estudiantes graduados para la promoción y valorización de la industria agroalimentaria y agroambiental.
Póster 10.2	**Leandro Jorge Guimarães de Oliveira** Universidade Católica Portuguesa - CBQF, Portugal	Newfood Project - Promoting the transfer of knowledge and innovation to the scientific community and society about traditional food products.