



IV Jornadas Españolas de Biocatálisis

05.Sep - 06.Sep 2024

Cód. Z21-24

Mod.:
Presencial

Edición
2024

Tipo de actividad
Workshop

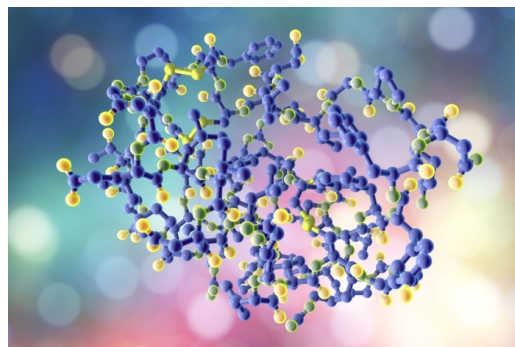
Fecha
05.Sep - 06.Sep 2024

Ubicación
Aquarium Donostia/San Sebastián

Idiomas
Inglés Español

Validez académica
20 horas

Web
<https://sebiot.org/eventos/iv-jornadas-espanolas-de-biocatalisis/>



DIRECCIÓN

Fernando López Gallego, CIC biomaGUNE

Alejandro Herrera Orrego, CIC biomaGUNE, Postdoc

Comité Organizador

Fundación
BBVA



Descripción

El objetivo del workshop es fortalecer la comunidad investigadora en biocatálisis dentro del estado español, con especial énfasis en generar una nueva red de jóvenes investigadores en esta área. Para lo cual pretendemos organizar una conferencia/workshop donde se darán una serie de ponencias en inglés impartidas por investigadoras/es internacionales en el área de la biocatálisis.

Cada una de estas ponencias abrirá una sesión específica dedicada a una subárea dentro de la biocatálisis. También habrá una serie de presentaciones orales asignadas a cada subárea temática y que serán seleccionadas de todas aquellas solicitudes de participación, mediante un proceso de revisión por parte de cada uno de los resúmenes presentados.

Además, las y los participantes cuyos resúmenes no hayan sido seleccionados con una comunicación oral, contribuirán con una comunicación en modo poster. Posteriormente a cada una de las charlas, bien sean las ponencias invitadas o bien sean las comunicaciones orales se abrirá un tiempo para la discusión y el debate científico. Además, todas las sesiones serán moderadas por investigadores especialistas en cada una de las subáreas.

La fecha límite para realizar enviar comunicaciones será el 30 de abril de 2024. La matrícula permanecerá abierta hasta el 26 de agosto (Todos los Abstracts enviados deben llevar asociada la matriculación. Las comunicaciones se limitarán a una por participante, se enviarán siguiendo la plantilla propuesta y con formato <nombre_apellido.pdf>. Indicando durante el proceso de matriculación el área temática de su comunicación:

1. Nuevos enfoques para descubrir y aislar biocatalizadores
2. Biocatálisis computacional
3. Inmovilización de biocatalizadores e intensificación de procesos
4. Biocatálisis en medios no convencionales
5. Nuevas reacciones y sistemas multienzimáticos

Objetivos

Fortalecer la colaboración científico-técnica entre los grupos de investigación en biocatálisis tanto a nivel estatal como internacional.

Organiza



Colabora



Dirigido por:



Fernando López Gallego

CIC biomaGUNE

Fernando López Gallego is IKERBASQUE Professor and leads the heterogeneous biocatalysis group (www.flg802.wixsite.com/flopezgallego) at the center for cooperative research in biomaterials (CIC biomaGUNE). Previously, he was ARAID researcher at the University of Zaragoza (2017-2019), junior IKERBASQUE researcher (2014-2017) at CIC biomaGUNE, junior technologist at REPSOL technology center (2013) and postdoctoral researcher at the University of Minnesota (2007-2010). He developed his predoctoral studies at the Institute of Catalysis and Petrochemistry (ICP-CSIC) (2002-2007) where he graduated as PhD in molecular biology from the Autonomous University of Madrid. His line of research consists in the development of biocatalysts based on enzymes supported on solid materials to develop new technologies in the field of sustainable chemistry and biomedicine.



Alejandro Herrera Orrego

CIC biomaGUNE, Postdoc

Alejandro Herrera Orrego carried out his PhD on stabilization and assembly of enzymatic biocatalysts with Prof. José M. Guisán and PhD Javier Rocha-Martín (Institute of Catalysis and Petrochemistry (ICP-CSIC), Spain). Then he moved with Prof. Dr. Aurelio Hidalgo (Universidad Autónoma de Madrid, Spain) to do his first post-doc on developing ultra-high enzymatic screening assays. In 2020, he was awarded a Bikaintek grant and joined the group of Prof. Dr. Fernando López-Gallego in CIC biomaGUNE (San Sebastián, Spain) for developing artificial metabolic cascades involving Coenzyme A thioesters as key intermediates.

Profesorado



Ana Isabel Benítez Mateos

Ana I. Benítez-Mateos is SNSF Ambizione Group Leader at ETH Zürich (Switzerland) since 2023. She obtained her PhD in 2019 under the supervision of Prof. Fernando López-Gallego at CICbiomaGUNE (Spain). Then, she joined the group of Prof. Francesca Paradisi, initially at the University of Nottingham (UK) and later at the University of Bern (Switzerland) through a Seal of Excellence Postdoctoral Fellowship. During her PhD and Postdoc, Ana investigated the immobilization of enzymes and their integration into flow reactors for more sustainable synthesis of pharmaceuticals and other valuable molecules. In 2022-2023, she served as the project manager for an Innosuisse Innovation Project aimed at integrating cost-efficient biocatalysis into large-scale processes through an industrial partnership. Currently, her research group develops robust biocatalysts by harnessing the biochemistry of extremophilic animals.



Antonio García-Moyano

Antonio García-Moyano is senior researcher at NORCE's Marine Biotechnology group where he works on the development of bio-based solutions for industry, with focus on enzymes and microbial cell factories. Antonio has a background in microbiology and molecular biology from Universidad Autónoma de Madrid, and has competence in metagenomic approaches for enzyme discovery as well as synthetic biology methods for strain engineering.



Valeria Grazu Bonavía

Dr. M^a Valeria Grazú holds a permanent research position at the Instituto de Nanociencia y Materiales de Aragón (INMA), part of the Spanish National Research Council (CSIC). With over 20 years of experience, her expertise lies in the biofunctionalization of micro/nanostructured materials for biotechnological and biomedical applications. Her current research focuses on utilizing magnetic heating for remote activation of therapeutic enzymes in biomedical applications and the efficient production of pharmaceuticals and bio-commodities through multienzyme cascades. Dr. Grazú co-founded Nanoimmunotech SL (NIT), a spin-off company, where she served as Chief Technical Officer

(CTO) for nearly 2 years. In this role, she successfully brought to market several kits based on nanoparticles. Her scientific excellence and leadership in Nanobiotechnology have gained international recognition. Nominated by the CSIC, she has been a member of AcademiaNet since 2020 and has been selected to participate in the EIC Woman Leadership 2nd Cohort program. Since 2020, she holds positions of responsibility at INMA, serving as Head of the Department of Bionanomedicine and as a member of the Strategic Innovation Commission.



Juan Mangas

After completing his doctoral studies at the University of Oviedo under the supervision of Vicente Gotor and Vicente Gotor-Fernández working on new chemoenzymatic routes to optically active alcohols via biocatalytic steps. In 2015, he joined the group of Prof. Nicholas Turner as a research associate at the Manchester Institute of Biotechnology to work on the discovery, characterisation, engineering, and synthetic applications of enzymes to access chiral amines. This accumulated experience served as a strong foundation for the establishment of his research group in 2020 at the Institute of Chemical Synthesis and Homogeneous Catalysis (ISCQH-CSIC) in Zaragoza. In 2023 he received a Ramón y Cajal Fellowship and moved to the University of Oviedo where he currently develops his research with financial support through two national grants. Since starting his independent career, his main interests have been the construction of chemoenzymatic cascades involving the integration of organo- and biocatalysis, and the discovery of novel enzymes for industrial biocatalysis.



Susana Nieto

Associate Professor of Biochemistry and Molecular Biology at the University of Murcia (UM). Her research training started in the clinical field, studying alterations of the cholinergic system in muscular dystrophy (PhD, UM 1999-2002), and cancer (Postdoctoral period, IMIB-HCUVA, 2003-2013). Since 2015 she belongs to the Sustainable Chemistry Research Group at the Faculty of Chemistry (UM), working in the development of new strategies for the sustainable synthesis of highly valued products, ranging from biofuels or CO₂ valorization to biosurfactants aimed to food, cosmetics and pharmaceutical industries. The basis of her work is the biocatalytic transformation of raw materials using neoteric solvents like ionic liquids, eutectic solvents, supercritical fluids or even by developing technologies under solvent-free systems. So far, she has participated in 17 research projects, and is also responsible for another 4 projects in the field of Green Chemistry as Principal Investigator. Accounts for 38 publications in international prestigious journals, with an h-index of 17, 7 book chapters, 101 communications to international and 51 communications to national meetings, and 1 patent.



Silvia Osuna

Silvia Osuna received her PhD in 2010 from the University of Girona (UdG) at the Institut de Química Computacional (IQC). In 2010, she moved to the group of Prof. Houk at the University of California, Los Angeles (UCLA). Since then, Sílvia has worked in computational design of enzymes of medical and pharmaceutical interest. Sílvia is currently an ICREA research professor at the Institut de Química Computacional i Catàlisi (IQCC, UdG). She has more than 100 research publications, and has been recently awarded the 2023 Premio Nacional de Investigación - María Teresa Toral award, 2023 Societat Catalana de Química - talent jove award, 2021 EuChemS lecture award, the Catalan National Research Award - Young Talent 2019 from Fundació Catalana de Recerca i Innovació (FCRi), among others. Her group is currently funded by the European Research Council project - Consolidator Grant (ERC-2022-CoG-101088032), ERC- Proof of Concept (ERC-2022-POC-101112805), two I+D Spanish MINECO project (PID2021-129034NB-I00, PDC2022-133950-I00), and Human Frontier Science Program Grant (RGP0054/2020).



Katarzyna Swiderek

Universitat Jaume I

Katarzyna Świderek obtained her PhD with honours in 2011 at the Lodz University of Technology (Poland). During her PhD she was funded by an AXIOM - Marie Curie Host Fellowship with a 3-month contract at the Helmholtz Centre for Environmental Research-UFZ in Leipzig (Germany). After her PhD, she moved to the University of Valencia. In 2015 she was contracted at Universitat Jaume I (UJI) in a project funded by the National Institutes of Health (NIH) coordinated by UJI and the University of Iowa, USA. At the same time, she received the Polish grant "Iuventus Plus" dedicated to talented young researchers (under 35). In 2017 she spent 6 months at the University of Bath (UK). She returned to Spain where she obtained a 2-year Juan de la Cierva-Incorporation contract, a 3-year JIN contract, and in 2022 Ramon y Cajal fellowship. In 2020 she became a leader of the StopProt project that was funded by the GenT-SEJI 2020 program of the Valencian Regional Government. Her professional activity is focused on theoretical studies of enzymatic catalysis. She is co-author of over 75 research publications. In 2019 she was awarded with GEQC-RSEQ.

Precios matrícula

MATRÍCULA	HASTA 26-08-2024
General	200,00 EUR

Lugar

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Gipuzkoa