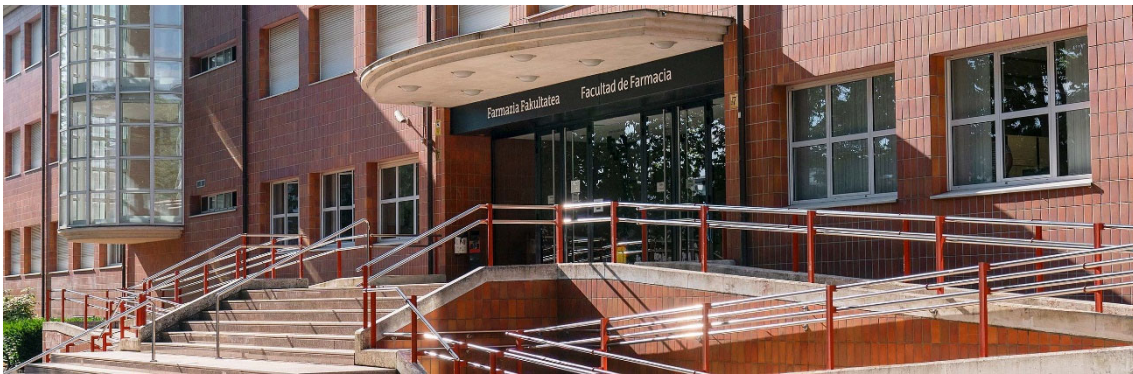


1st SCIENTIFIC MEETING 'PASSION FOR SCIENCE'

UPV
EHU

MEDIKUNTZA PERTSONALIZATUKO
UPV/EHU i+Med GELA
AULA DE MEDICINA PERSONALIZADA
UPV/EHU i+Med

i+Med
COOPERATIVE
OF SCIENTISTS



19th November, 2024

**FACULTY OF PHARMACY. UNIVERSITY OF THE BASQUE COUNTRY
(UPV/EHU), Alava Campus, Vitoria-Gasteiz.**

Organized by:

"Aula de Medicina Personalizada UPV/EHU i+Med"

Faculty of Pharmacy (UPV/EHU)

Sponsored by:

Vice-Rectorate for Scientific-Social Development and Transfer and "Aula de Medicina Personalizada UPV/EHU i+Med"

Organizing Committee:

Mirari Ayerbe (Dean of the Faculty of Pharmacy, UPV/EHU)

Rosa Hernández (Director of the "Aula de Medicina Personalizada UPV/EHU i+Med")

Sandra Benito (Member of the Governing Council of the Cooperative, i+Med)

Nekane Martín (Cooperative member, i+Med)

Scientific Committee:

Gontzal García del Caño (Department of Neurosciences, UPV/EHU).

Javier Vicario (Department of Organic Chemistry I, UPV/EHU)

Edorta Santos (Department of Pharmacy and Food Sciences, UPV/EHU)

Lourdes Basabe (Department de Zoology and Animal Cell Biology, UPV/EHU)

Jon Andrade (Cooperative member, i+Med)

1st SCIENTIFIC MEETING 'PASSION FOR SCIENCE'

Location: Faculty of Pharmacy Auditorium (UPV/EHU). Vitoria-Gasteiz

PROGRAMME

19th November, 2024

08:30 – 09:00	Registration & Presentations uploading/poster placement <i>Main hall of the Faculty of Pharmacy (UPV/EHU)</i>
09:00 – 09:15	Welcome session Dr. Manoli Igartua (Vice-Rector of the Álava Campus, UPV/EHU) Dr. Mirari Ayerbe (Dean of the Faculty of Pharmacy, UPV/EHU) Sandra Benito (Laboratory Manager and Member of the Governing Council of the Cooperative of i+Med) Dr. Rosa Hernández (Director of the Aula de Medicina Personalizada UPV/EHU i+Med)
09:15 – 10:00	PLENARY SPEAKER I Ana Beloqui. Research Associate F.R.S.-FNRS & WELBIO Investigator at the Université Catholique de Louvain <i>Exploiting the pathophysiology of the gut towards innovative oral peptide delivery strategies</i> Chairperson: Edorta Santos-Vizcaino
10:00 – 10:45	Oral presentations. Session I Selected talks: 7-minute presentation, 3 minutes for Q&A Chairperson: Edorta Santos-Vizcaino O1: Establishing a Scalable and Reproducible Framework for Using Extracellular Vesicles as Biologic Drug Delivery Vehicles. Zuriñe Eraña-Perez. O2: Nanoparticle functionalization for targeted drug delivery. Ainhoa Goenaga.

	<p>O3: Combined Gene Therapy for Fabry Disease: Golden Lipid Nanoparticles as nanomedicines for siRNA and pDNA co-delivery. Marina Beraza Millor.</p> <p>O4: Generation and characterization of patient-specific neurogenic 3D spheroids from human Dental Pulp Stem Cells for disease modeling and therapies. Jon Luzuriaga.</p>
10:45 – 11:30	Coffee break and Poster viewing
11:30 – 12:15	<p>PLENARY SPEAKER II</p> <p>José Luis García Cordero. Head of Microtechnologies Group. Roche Institute of Human Biology. Basel.</p> <p><i>Organoid-on-a-chip technologies at Roche's Institute of Human Biology.</i></p> <p>Chairperson: Lourdes Basabe-Desmonts</p>
12:15 – 13:00	<p>Oral presentations. Session II</p> <p>Selected talks: 7-minute presentation, 3 minutes for Q&A</p> <p>Chairperson: Lourdes Basabe-Desmonts</p> <p>O5: Microfluidic passive device for plasma enriched in platelets separation from whole blood made of acrylic and tape. Pablo E. Guevara-Pantoja.</p> <p>O6: Paper-based microfluidic detection and quantification of a stress response indicator in crops: the microrna408. F. Nicolas Nazar.</p> <p>O7: Autonomous microfluidic device for the naked-eye detection of benzodiazepines in adulterated beverages. Isabel Poves Ruiz.</p> <p>O8: Study of the effect of the fungus <i>Candida albicans</i> in B16-F10 melanoma cells. Leire Aparicio Fernandez.</p>
13:00 – 14:30	Lunch Break and Poster Viewing
14:30 – 15:15	<p>PLENARY SPEAKER III</p> <p>Zaira García Carvajal. Senior Researcher, i+Med</p> <p><i>Development of polymeric hydrogels and the use of nanotechnology for the encapsulation of molecules in health applications</i></p>

	Chairperson: Jon Andrade
15:15 – 16:00	<p>Oral presentations. Session III</p> <p>Selected talks: 7-minute presentation, 3 minutes for Q&A</p> <p>Chairperson: Gontzal García del Caño</p> <p>O9: Development of hyaluronic acid injectable hydrogels based on thiol chemistry. Luis Pérez Pérez</p> <p>O10: Development of a broad-spectrum SARS-CoV-2 nanovaccine focused on highly conserved S2 regions. Madalen Arribas Galarreta.</p> <p>O11: First advances in the characterization of the biofilm composition of <i>Arcobacter butzleri</i>. Adrián Salazar-Sánchez.</p> <p>O12: Beneficial effect of <i>Opuntia</i> extracts on oxidative stress and inflammation in a model of murine diet-induced liver steatosis. Irene Besné-Eseverri.</p>
16:00 – 16:45	<p>Research career perspective and how to access an ERC grant</p> <p>Ana Beloqui. Research Associate F.R.S.-FNRS & WELBIO Investigator at the Université Catholique de Louvain</p> <p>Aitor Maestro Postdoctoral Researcher at Organic Chemistry II Department (UPV/EHU)</p>
16:45 – 17:30	<p>Oral presentations. Session IV</p> <p>Selected talks: 7-minute presentation, 3 minutes for Q&A</p> <p>Chairperson: Javier Vicario</p> <p>O13: The azo-Povarov cycloaddition, a potential bioorthogonal reaction. Xabier Jiménez-Aberásturi.</p> <p>O14: Phosphorated antiproliferative agents, a new alternative for cancer treatment. Alba Rodríguez.</p> <p>O15: Enantioselective synthesis of dihydroquinoline-hydantoin hybrids and their applications as antiproliferative agents. Zuriñe Serna-Burgos</p> <p>O16: Toward hybrid organic/inorganic interfaces: how carbon-based nanomaterials can promote reorganisation and boosted activity in neuronal networks. Denis Scaini.</p>

17:30 – 18:15	Coffee-break and Poster Viewing
18:15	Closing Remarks and Award Ceremony

POSTERS

1. Synthesis of aziridines via Joullié-Ugi reaction as potential therapeutic agents. J. Allende.
2. mTOR inhibition increases channel expression in a model of LQTS2 in vitro. Beatriz. Sáenz-Díez Pérez.
3. Mechanical Stimulation of Hydrogel-based Scaffolds Using a Bioreactor: Development of a Support System for Tendon Tissue Engineering. Ruiz-Alonso Sandra.
4. Influence of physical characteristics of the design of orodispersible 3D printlets on their disintegration time. N. Paccione.
5. Development and evaluation of a bioink for the 3D bioprinting of in vitro chronic wound models. Mikel Salmerón.
6. Regulatory framework for 3D bioprinted corneal constructs: From design to market authorization. Hodei Gómez Fernández
7. Bioink Enrichment with Growth Factor-Loaded Nanoparticles: Enhancing Clinical Efficacy of Regenerative Scaffolds. Jorge Ordoyo-Pascual.
8. Addition of Gamma-tocopherol rich Extract: impact on sunflower oil degradation process at frying temperatures. Susana Abrante Pascual.
9. Development of hydrogen sulfide-activated theranostic prodrugs for selective cancer treatment through tetrazine dynamic chemistry. Oier Encinas.
10. Simple synthesis of 1,2-dihydroquinoline/hydantoin hybrids and the evaluation of their anticancer properties. Ainara Pellicer.

11. Determination of the MBIC and MBEC of amikacin, aztreonam and meropenem in *Pseudomonas aeruginosa* biofilms. Ohiana Rodríguez Medina.
12. Gene therapy for dry age-related macular degeneration with ionizable nanovectors: mRNA vs Pdna. P. Fernández-Muro.
13. Synthesis of nitrogen heterocycles as human topoisomerase i inhibitors. Leyre López de Aguilera.
14. Towards alternative diagnostics tools for fungal infections in patients with Cystic Fibrosis. L. Martin-Souto.
15. The importance of health care in the preferred-language chosen by the patient from a quality perspective. Jon Zarate.
16. Potential anti-obesity effects of three different microalgae extracts. Helen Carr-Ugarte.
17. Antimicrobial and biosurfactant production by halophilic bacteria. Elena Valgañón-Pérez.
18. 3D bioprinting of a novel graphene-based (bio)ink for tissue engineering. Irene Díez Aldama.
19. Investigating T cell activation through cytokine secretion using a novel cell monitoring platform. Sara Lpz. de Lacalle-Arregui.
20. Real-time visualisation of biochemical streptavidin-biotin interaction using gold nanoparticles and fiber optic. Sukayna Ezquerro Berdouzi.
21. Alginate/TiO₂ Bead Biosystem for Cholesterol Determination in a Microfluidic device. Juncal A. Alonso-Cabrera.
22. Synthesis of functionalized chitosan polymeric nanoparticles and their properties for controlled drug release. Nekane Martin Mendia.
23. Showcasing the potential of different pharmacokinetic modeling approaches for the optimization of antimicrobial therapy. Ana Alarcia-Lacalle.
24. DUBs substrates: deciphering the UCH family. Erik P. Barrio.
25. Advances in Cell Affinity Assays with SCADA: Simple and Rapid Analysis of Cell-Molecule Interactions. Asier Inchaurreaga Llamas.

26. Development of an Alginate Bead Biosystem for the Visual Detection of Cortisol. Sepideh Izaddoust.
27. Assessing Breast Cancer in vitro through Smart Bioelectronics. Gema del Rocío López-Buenafé.
28. New frontiers in antimycolata agent discovery: modification of known antibiotics. Angela Trejo Nogales.
29. Effects of Opuntia extracts. A comparison between epididymal and subcutaneous adipose tissue in a murine model of obesity. Iker Gómez García.
30. Viable Lactobacillus rhamnosus GG shows superior prevention over its inactivated variant on high-fat high-fructose diet-induced MAFLD prevention in rats. Laura Arellano García.
31. Food insecurity and health outcomes among the Spanish sub-cohort of the FINESCOP study. L. Garcia-Iruretagoyena.
32. A Novel Method for Advancing Bispecific Antibodies. Arkaitz Cano.
33. Functional stability of tetracycline: practical information for its use in bacterial selection. Adrián Salazar-Sánchez.
34. Construction and characterization of pIMM24, the first Escherichia coli – Arcobacter butzleri shuttle vector. Adrián Salazar-Sánchez.