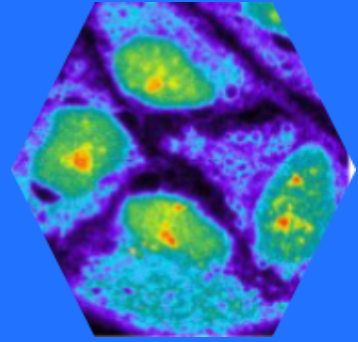


1ST ANNUAL JOINT SCIENTIFIC CONFERENCE



Get ready for two days full of insights and discoveries.

DECEMBER 20-21,
2023

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PROGRAM

DECEMBER 20

9:15 AM

Bienvenida

SESSION 1 Chair: Mohamed Anwar

09:25 AM

From structure to therapeutics: exploring protein dysfunction in the diagnosis and treatment of diseases. Lluís Eixerés (Santiago Ramón Lab, IBV)

09:40 AM

Interplay between the actin cytoskeleton and the metabolic plasticity of cells. Salvador Meseguer (M^aAngels Juanes Lab, CIPF)

09:55 AM

SARS-CoV-2 spike proteins undergo a conserved temperature-dependent conformational equilibrium. Rafa Ruiz (Jerónimo Bravo Lab, IBV)

10:10 AM

Directed evolution of the mycobacterial ribosome to better understand translation and drug resistance. Laura Flores (Teresa Cortés Lab, IBV)

10:25 AM

Phr duplication and maturation: The complex art in bacteriophage gossip control" Alonso Felipe Ruiz (Alberto Marina Lab, IBV)

10:40 AM

Microscopía Electrónica: Una apuesta por el Futuro de la Biología Estructural en Valencia. Laura Villamayor y Marisa Lopez (Teresa Cortés y José Luis Llácer Labs, IBV)

10:55 AM

Enzimología estructural: qué somos y qué hacemos. Vicente Rubio (Vicente Rubio Lab, IBV)

11:10 AM-12:30 PM

Coffee Break + Posters Session 1

PROGRAM

DECEMBER 20

SESSION 2 Chair: Yaiza Domínguez

- 12:30 PM Subcellular targeted delivery with Polymer Therapeutics.
Camilla Pegoraro (MJ Vicent Lab, CIPF).
- 12:45 PM Inhibition of mitochondrial protein import and proteostasis by a pro-apoptotic lipid. Josep Fita, (Markus Proft Lab, IBV)
- 13:00 PM Understanding the role of Mog1, a Ran-GTP binding protein, in yeast cell cycle and Brugada syndrome. Lola Serrano (Susana Rodríguez Lab, IBV)
- 13:15 PM ProteoCure. A sound proteome for a sound body: targeting proteolysis for proteome remodeling. Rosa Farras (Rosa Farrás Lab, CIPF)
- 13:30 PM Identification and characterization of new inflammasome modulators.
Iván Fernández (Mar Orzáez Lab, CIPF)
- 13:45 PM How the ubiquitin ligase APC/CFZR-1 is controlled in the embryonic germline from *Caenorhabditis elegans*? Álvaro Alós Hernández (José Pérez Lab, IBV)

Lunch Break + Posters Session 2

SESSION 3 Chair: Ana Ferrer Micó

- 16:00 PM Sak1/Lkb1, el nuevo compañero de la separasa en el viaje de la mitosis.
David Vaquero, (Ethel Queralt Lab, IBV)
- 16:15 PM Biomarcadores para la enfermedad de Wilson. Edna Ripollés (Carmen Espinós Lab, CIPF)
- 16:30 PM Explorando la fagocitosis en la enfermedad de Lafora. Laura Baños (Pascual Sanz Lab, IBV)
- 16:45 PM Sema3c exacerbates liver fibrosis.
Francesca De Angelis Rigotti (Juan Rodríguez Lab, CIPF)
- 17:00 PM Pre-mRNA splicing: Gene regulation and novel therapeutic approaches
Santiago Vernia (Santiago Vernia Lab, IBV).
- 17:15 PM The role of Pla2g6 in adipocyte differentiation and function.
Jaime Navarro Pérez (Setefania Carobbio Lab, CIPF)
- 17:30 PM Back to basics: How do Mammalian cells maintain size homeostasis
Francisco Iborra (Francisco Iborra Lab, IBV).
- 17:45 PM CHCHD2 y enfermedad de Parkinson.
Fernando Cardona (Jordi Pérez-Tur Lab, IBV)

PROGRAM

DECEMBER 21

SESSION 4 Chair: Milagros Buffa

- 09:15 AM Single-cell dataset interrogation unravels general features of neuronal fate determinants. Antonio Jordan (Nuria Flames Lab, IBV)
- 09:30 AM Computational methodologies for studying of sex-based disparities in neurological diseases. Marta R. Hidalgo (Paco Garcia Lab, CIPF)
- 09:45 AM Optogenetic modulation of stem cell grafts for the treatment of Spinal Cord Injuries. Maria del Mar Sánchez Martin (Victoria Moreno Lab, CIPF)
- 10:00 AM The epidermal glucocorticoid receptor-p63 axis plays an important role in atopic dermatitis inflammation. Lisa M. Sevilla, (Paloma Pérez Lab, IBV)
- 10:15 AM Extracellular vesicles from mesenchymal stem cells reverse neuroinflammation and cognitive and motor impairment in rats with mild liver damage. Gergana Mincheva (Vicente Felipo Lab, CIPF)
- 10:30 AM Estrategias neuroprotectoras para distrofias hereditarias de la retina. Sheyla Velasco.(Regina Rodrigo Lab, CIPF)
- 10:45 AM Update on the Pan-African Snake Antivenom Project
Juanjo Calvete (Juanjo Calvete Lab, IBV)

Coffee Break + Posters Session 3

SESSION 5 Chair: Carme Nuño

- 12:00 PM Let's talk about TB transmission! Mariana Gabriela López (Iñaki Comas Lab, IBV)
- 12:15 PM Developing tools to understand functional adaptation in the microbiota.
Verónica Lloréns Rico (Verónica Llorens Lab, CIPF)
- 12:30 PM Tail assembly interference, a novel and widespread strategy in prokaryotic immune systems. Laura Miguel Romero (Alberto Marina Lab, IBV)
- 12:45 PM Mimetismo funcional del microbioma intestinal humano.
Paula Hernández Calderón (Alfonso Benítez Lab, CIPF)

POSTERS

SESSION I

- #1 Phenotypic characterization of missense mutations within the tumor suppressor APC linked to cancer disease. Rabe'ah Amre Almhaseneh,
- #2 A Spinal Cord Injury consensus transcriptomic reference suite in rat. Rubén Grillo-Risco;
- #3 Characterization of mimetic models of Cornelia de Lange syndrome in budding yeast (*Saccharomyces cerevisiae*). Amparo Picard-Sánchez
- #4 Determining the situation of drug-resistance Tuberculosis in the South of Mozambique by using whole genome sequencing for the first time'. Carla Mariner-Llícer
- #5 $\Delta 1$ -Pirrolin 5 carboxilato sintetasa (P5CS) de *Arabidopsis thaliana*: No solo un modelo experimental para el déficit del enzima humano. María Pilar Hernández
- #6 Mass Spectrometry Imaging - Bridging Biology and Chemistry in the Design of Polymer-Drug Conjugates. Snezana Dordevic
- #7 Targeting mcl1-bok tmd interaction in lung cancer. Milagros Buffa
- #8 Unveiling sex-based differences in Parkinson's disease: a comprehensive meta-analysis of transcriptomic single-cell studies. Fernando Gordillo-González
- #9 Optimization of Three-dimensional Prostate Cancer Models as Screening Platform for Personalized Combination Therapies. Antoni Serrano
- #10 Astrocyte subtype gene expression in aging mouse hippocampus. Lucía Casares
- #11 Cholinergic neurodegeneration and cholesterol metabolism dysregulation by constitutive p75NTR signaling in the p75^{exonIII}-KO mice. Andrea Benito
- #12 Reconstitution of an in vitro translation system for *Mycobacterium tuberculosis*. Laura Villamayor-Belinchón
- #13 Apoptotic regulation of ER function in yeast. Jose Luis Garrido Huarte
- #14 Caracterización molecular de enzimas del microbioma intestinal humano que imitan la función de la peptidasa DPP4 humana. Paula Hernández Calderón.
- #15 The cell cycle regulator APC/CFZR-1 controls the decision between the SS and DTC cell fate in *Caenorhabditis elegans*. David Borrego Pérez.
- #16 Functional impact of APC missense mutations in cell migration of colorectal cancer models. Pablo Almela

POSTERS

SESSION II

- #17 Astrocyte senescence impairs synaptogenesis on hippocampal neurons. Stefano Giannelo Ercoli Ortiz
- #18 Interactomics platform: quantifying macromolecular interactions in vitro at the IBV-CSIC. Clara Marco-Marín
- #19 Loss of epidermal glucocorticoid receptor protects against whole body metabolic dysfunction upon chronic corticosterone treatment. Andrea Gallego.
- #20 TNF and IL6/Jak2 signaling pathways are the main contributors of the glia-derived neuroinflammation present in Lafora disease, a fatal form of progressive myoclonus epilepsy. Teresa Rubio
- #21 Poly-glutamate based nanoconjugates for the treatment of pediatric solid tumors. Amina Benaicha
- #22 Evaluation of a Polymer-based Combination Therapy for Luminal A Breast Cancer Treatment in Advanced Cell Culture Models. Ana Armiñán
- #23 Shared signature of melanoma brain metastasis and Alzheimer's disease. Irene Soler-Saez
- #24 Decoding Alcohol's Impact on Extracellular Vesicles' Lipidome by Sex. Carla Perpiñá-Clérigues
- #25 Unveiling the Role of AP-1 in Tumorigenic Cell Invasion. Alihamze Fathinajabadi Nasresfahani,
- #26 Palbociclib induced senescence increases the cell cannibalism programme entosis in cancer. Federico Lucantoni
- #27 Study and characterization of Mip6 export mechanisms. Ana Tejada
- #28 Inhibición del inflammasoma NLRP3 en modelos de degeneración retiniana. Daniel Tena
- #29 Sex differences in Alzheimer's disease through single-cell studies. Borja Gómez-Cabañes
- #30 Releasing Bok from transmembrane MCL1 interaction: a novel strategy to induce cell death in tumors. Diego Leiva
- #31 A 3D perspective on proteins: Dysfunction, Diagnosis, and Disease. Francisco del Caño-Ochoa
- #32 Study of the functional link between separase and Pahl in *Saccharomyces cerevisiae*. Malina Ilinca
- #33 Cell-type specific binding profile of transcription factors in *C.elegans*. Rafa Alis
- #34 Patología molecular y cristalografía de rayos X arrojan nueva luz sobre estructura-función de la carbamil fosfato sintetasa I humana (HuCPS1). Nadine Gougéard
- #35 Fragment based design of antibiotics targeting bacterial histidine kinases. Anmol Adhav,

POSTERS

SESSION III

#36 Genetic assimilation underlies the emergence of a novel neuron-type in the *Caenorhabditis* genus
Andrea Millan Trejo

#37 Un ataque combinado químico, virológico, biofísico y estructural hace posible la obtención de nuevos inhibidores de entrada celular de SARS-CoV-2 y la caracterización de su mecanismo de inhibición. Vicente Rubio

#38 Implementation of the TCP-seq and Ribo-RET sequencing methods to study translation initiation in *Mycobacterium smegmatis*. Gerard Iniesta

#39 Global identification of local genotypes in *Mycobacterium tuberculosis* using large genomic datasets. Francisco José Martínez-Martínez

#40 Spatial epidemiological analysis of the incidence and transmission of tuberculosis in the Comunitat Valenciana. Paula Sinisterra

#41 Precision engineering of crosslinked self-assembled star-shaped polypeptide-based nanomedicines María Ibañez:

#42 The Design of Polypeptide-Based Nanoconjugates as Advanced Theranostics. María Medel

#43 Novel alk-based combination therapy for the treatment of glioblastoma multiforme. Esther Masià:

#44 Beneficial effects of hepatic cyclooxygenase-2 expression against NAFLD/NASH: a potential therapeutic target. María Luque-Tévar

#45 Atg7-dependent autophagy drives the transition of developmental neural stem cells into their quiescent adult state Carmina Franch

#46 Risk-Benefit Assessment of Snake Antivenom Immunoglobulins. The Calvete lab

#47 Risk-Benefit Assessment of Antivenoms manufactured for North Africa, Middle East and South East Asian regions. The Calvete Lab

#48 Role of TET3 on oxidative phosphorylation. Carmen Grueso

#49 TET3 function on lysosomal regulation. Mireia Cortés