



## Cellular Aging and Metabolism Symposium (CAMS 2023)

### FLASH TALKS PROGRAMME

**MONDAY, 17<sup>th</sup> JULY 2023**

**Chair:** Professor María Arufe and Dr. Juan A. Fafián Labora

16.00-17.00 H

#### **Development and clinical translation of a novel $\beta$ -galactosidase specific senescence PET tracer**

Francisco Reche

Werner Siemens Imaging Center, Department of Preclinical Imaging and Radiopharmacy. Cluster of Excellence iFIT "Image Guided and Functionally Instructed Tumor Therapies" (EXC 2180), Eberhard Karls University, Tübingen, Germany

#### **Effective niosome formulations for the gene transfer of senescent mesenchymal stem cells**

Alba Iglesias Fente

Gene and Cell Therapy Research Group, Centro Interdisciplinar de Química e Bioloxía - CICA, Universidade da Coruña, A Coruña, Spain

#### **Impact of caloric restriction on age-associated chronic kidney disease**

Marina Martín-Taboada

Department of Basic Sciences of Health, Area of Biochemistry and Molecular Biology, Universidad Rey Juan Carlos, Alcorcon, Madrid, Spain

#### **miRNAs associated to peroxisome proliferator-activated receptor gamma: pancreatic metabolic adaptations during pregnancy**

Patricia Corrales

Departamento de Ciencias Básicas de la Salud, Area de Bioquímica y Biología Molecular, Universidad Rey Juan Carlos, Alcorcón, Madrid.

#### **mtDNA variation as pharmacogenomic platform for age associated disorders**

Cristina De Jesús-Sen

Centro de Investigaciones Biológicas Margarita Salas. CSIC. Madrid, Spain  
MitoPhenomics Lab, Centro Singular de Investigación en Medicina Molecular y Enfermedades Crónicas (CiMUS). USC. A Coruña, Spain.

#### **Identification of new senolytic compounds as potential therapeutic tools against aging and cancer**

Miguel Ángel Prados

Laboratory of Cell Senescence, Cancer and Aging, Health Research Institute of Santiago de Compostela (IDIS), Xerencia de Xestión Integrada de Santiago (XXIS/SERGAS), Santiago de Compostela, Spain.

17.00-17.30 H

#### **Deciphering cell health and metabolism changes with new Bioluminescent tools**

Dr. María Jurado

Promega Biotech Ibérica S.L.

17.30-18.30 H

**Transcriptional repression of SOX2 by the tumor suppressor TP53 alters the plasticity of cancer cells**

Patricia Lado-Fernández

Laboratory of Cell Senescence, Cancer and Aging, Health Research Institute of Santiago de Compostela (IDIS), Xerencia de Xestión Integrada de Santiago (XXIS/SERGAS), Santiago de Compostela, Spain.

**Circular RNAs in leukocytes: potential new biomarkers for frailty**

Saioa García

Multiple Sclerosis Unit. Biodonostia Health Research Institute. San Sebastián, Spain.

**Implication of GLS1 in senescent phenotype in the liver through ammonium and iron modulation**

Claudia Rejano Gordillo

Liver Disease Laboratory, CIC bioGUNE and CIBEREHD. Biofisika Institute (UPV/EHU, CSIC) and Department of Biochemistry and Molecular Biology, University of the Basque Country (UPV/EHU), Derio, Spain.

**Senomorphic effect of partial reprogramming**

Víctor Nuñez Quintela

Laboratory of Cell Senescence, Cancer and Aging, Health Research Institute of Santiago de Compostela (IDIS), Xerencia de Xestión Integrada de Santiago (XXIS/SERGAS), Santiago de Compostela, Spain.

**Aging of the immune system in multiple sclerosis patients**

Andrea Iribarren-López

Biodonostia Health Research Institute (Biodonostia HRI), Multiple Sclerosis Group, San Sebastian, Spain.

**Identification of a new chromatin-binding protein that regulates liver metabolism**

Jia Liang Sun Wang

IRB Barcelona - University of Barcelona, Barcelona, Spain.

**TUESDAY, 18<sup>th</sup> JULY 2023**

**Chair:** Professor María Arufe and Dr. Juan A. Fafián Labora

16.00-17.00 H

**Proteomics endotyping of patients with osteoarthritis and associated comorbidities**

Patricia Quaranta

INIBIC-Hospital Universitario A Coruña, SERGAS, Rheumatology Research Group (GIR), Proteomics Unit, A Coruña, Spain.

**Development of polymeric microparticles for intra-articular drug delivery to reduce osteoarthritis senescence and promote cartilage homeostasis**

Rebeca Martínez Borrajo

Department of Pharmacology, Pharmacy and Pharmaceutical Technology. Instituto de Investigación Sanitaria de Santiago de Compostela (IDIS), Instituto de Materiais da Universidade de Santiago de Compostela (iMATUS), Santiago de Compostela, Spain.

## **Crude fucoidans attenuate activation of pro-inflammatory pathways in chondrocytes but fail to modulate senescence**

Emma Capelo-Mera

Grupo de Investigación de Reumatología y Salud (GIR-S), Departamento de Biología, Facultad de Ciencias, CICA-Centro Interdisciplinar de Química y Biología, INIBIC-Sergas, Universidade da Coruña, A Coruña, Spain.

## **p21Cip1/WAF1 and its relationship with androgen metabolism in senescent-like state prostate cancer primary cultures**

Emily Toscano Guerra

Cell signaling and cancer progression, Clinical biochemistry Group, Vall d'Hebrón Institut de Recerca. Anatomical Pathology Group, Vall d'Hebrón Institut de Recerca. Universitat Autònoma de Barcelona, Spain

## **The extracellular vesicles of SASP (evSASP) as key mediators of intercellular communication during cancer chemotherapy**

Valentín Estevez

Laboratory of Cell Senescence, Cancer and Aging, Health Research Institute of Santiago de Compostela (IDIS), Xerencia de Xestión Integrada de Santiago (XXIS/SERGAS), Santiago de Compostela, Spain.

## **Identification of molecular drivers of ocular inflammation in patients with uveitis who fail anti- TNF $\alpha$ therapy**

Lorena Rodríguez-Martínez

Pharmacology Group, Health Research Institute of Santiago de Compostela (IDIS), Santiago de Compostela, Spain.

## **The role of chd7 in the regulation of embryonic senescence**

Álvaro Arana

Universidad de Santiago de Compostela (USC), Instituto de Investigaciones sanitarias de Santiago de Compostela (IDIS), Santiago de Compostela, Spain

## **Exploring the role of age-associated iron dyshomeostasis and early-onset colorectal cancer in the malignant aging of the colon**

Marc Guash-Piqueras

Vall d'Hebron Institute of Oncology (VHIO), Barcelona, Spain.

## **Metabolic rewiring by increased mitochondrial respiration drives immunosuppression in liver cancer**

Naroa Goikoetxea-Usandizaga

Liver Disease Lab, Centre for Cooperative Research in Biosciences CIC bioGUNE, Basque Research and Technology Alliance, Derio, Spain.

## **Obesity and immunometabolism. CLDN1 as a novel target gene induced in obesity and associated to inflammation, fibrosis, and cell differentiation**

Pablo Fernández

Department of Health Sciences, Campus Alcorcón, University Rey Juan Carlos (URJC), E-28922 Madrid, Spain

## **Understanding the cellular impact of matching & mismatching mitochondrial genome and microproteome**

Lucía Sánchez Abad

MitoPhenomics Lab, CiMUS, Universidade de Santiago de Compostela, Spain

## **Identification of senescence biomarkers in liquid biopsies to guide cancer treatment**

**Sabela da Silva Alvarez**

Laboratory of Cell Senescence, Cancer and Aging, Health Research Institute of Santiago de Compostela (IDIS),  
Xerencia de Xestión Integrada de Santiago (XXIS/SERGAS), Santiago de Compostela, Spain.