

IX JORNADAS CIENTÍFICAS GENYO 2021

Wednesday, December 15th

09.15 - 09.30 WELCOME AND INTRODUCTION

José Antonio Lorente Scientific Director GENYO

Marta Alarcón Riquelme Organizing Committee IX Jornadas Científicas GENYO 2021

09.30 – 11.00 Master Student SESSION

(15 min+5 min Q&A)
Session Chair: María Botía

09.30 - 09.50 **Lorena Albaladejo Maricó**

"Humoral immune response to gut commensals in autoimmune inflammation"

09.50 - 10.10 **Mencía Espinosa Martínez**

"Pluripotent cells in G1 phase are more prone to differentiate towards primitive endoderm than cells in S or G2 phases"

10.10 - 10.30 **Alba Rubio Gayarre**

"NG2 proteoglycan induces glucocorticoid resistance in MLL-rearranged B-cell Acute Lymphoblastic Leukemia via PI3K/Akt pathway"

10.30 - 10.50 **José Manuel Sánchez Mañas**

"High-throughput production of platelet-like particles (PLPs) and isolation of PLPs derived extracellular vesicles"

11.00 - 12.00 COFFEE BREAK (provided by organization) AND POSTER SESSION I

12.00 - 13.30 PhD Student, TRANSLATIONAL RESEARCH SESSION

(15 min+5 min Q&A)
Session Chair: María Tristán

12.00 - 12.20 **Paula Robles Bolivar**

"A novel nonsense variant in the CENPP gene segregates autosomal dominant low frequency hearing loss in a Swiss family"

12.20 - 12.40 **Francisco Perez**

"Post-COVID-19 syndrome: taking a deep look at the immune landscape 3 months after infection"

12.40 - 13.00 **José Antonio Laz-Ruiz**

"Selective drug delivery in cell coculture systems based on active targeting polymeric nanocarriers"

13.00 - 13.20 **Inés Aznar Peralta**

"Multiparametric characterization of CTCs by a novel methodology combining microfluidic isolation (IsoFlux) and imaging flow-cytometry (ImageStream)"



IX JORNADAS CIENTÍFICAS GENYO 2021

13.30 - 15.00 LUNCH *(provided by organization)*

15.00 - 16.00 Researcher with a PhD, *TRANSLATIONAL RESEARCH SESSION* (15 min+5 min Q&A)
Session Chair: Gabriel Ortega

15.00 - 15.20 **Jordi Martorell Marugán**

"Artificial Intelligence for differential diagnosis of Systemic Lupus Erythematosus and Sjögren's Syndrome based on gene expression and DNA methylation"

15.20 - 15.40 **Maria Belen Lopez Millan**

"The multi-kinase inhibitor EC-70124 is a promising candidate for the treatment of FLT3-ITD- positive acute myeloid leukemia"

15.40 - 16.00 **Carlos Peris Torres**

"Nano3Device: towards translational application of theranostic nanodevices"

16.00 - 17.00 POSTER SESSION II

17.00 - 18.00 KEYNOTE SPEAKER

Session Chair: Juan Carlos Rodríguez-Manzanaque

M Angela Nieto Instituto de Neurociencias (CSIC-UMH), Alicante, Spain
"Aberrant activation of developmental programs in adult disease"



IX JORNADAS CIENTÍFICAS GENYO 2021

Thursday, December 16th

9.30 - 10.30 KEYNOTE SPEAKER *Zero Carbon Footprint talk*

Session Chair: David Landeira

Giacomo Cavalli Institute of Human Genetics (CNRS), Montpellier, France
"Of Loops and TADs: 3D Genome Organization and Function"

10.30 - 10.50 Techno-Scientific Talk *Zero Carbon Footprint talk*

Session Chair: Concepción Marañón

Ignacio Martín Product Manager PALEX Medical S.A., Spain
"Full Spectrum Cytometry"

11.00 - 12.00 COFFEE BREAK (*provided by organization*) AND POSTER SESSION III

12.00 - 13.30 PhD Student, *BASIC RESEARCH SESSION*

(15 min+5 min Q&A)

Session Chair: Noelia Maldonado

12.00 - 12.20 Paola Peinado Fernández

"ARID1A loss unbalances proteostasis, triggering genotoxic stress and apoptosis in lung adenocarcinoma cells"

12.20 - 12.40 Victoria Sánchez Martín

"Gallic acid: a natural phenolic compound exerting antitumoral activities in colorectal cancer via binding to G-quadruplexes"

12.40 - 13.00 Helena Gómez Asenjo

"Alleviation of Polycomb repression in G1 phase facilitates cell differentiation in pluripotent stem cells"

13.00 - 13.20 Ana Gázquez Gutiérrez

"Exploring the interplay between transposable elements and the interferon pathway in human DGCR8-lacking pluripotent cells"

13.30 - 15.00 LUNCH (*provided by organization*)



IX JORNADAS CIENTÍFICAS GENYO 2021

15.00 - 16.30 Researcher with a PhD, *BASIC RESEARCH SESSION*

(15 min+5 min Q&A)

Session Chair: Juan Carlos Álvarez

15.00 - 15.20 **María Alcázar Fabra**

"Mitotic bookmarking by Polycomb proteins in stem cells"

15.20 - 15.40 **Eliana Barriocanal Casado**

"GAA-KO murine cell lines resemble CI-MPR downregulation in Pompe disease and evidence limitations as preclinical models"

15.40 - 16.00 **Georgina Galicia**

"BANK1 signaling regulates the gut IgA response, microbiome, and inflammation in Lupus"

16.00 - 16.20 **Pablo Román-Naranjo Varela**

"Digenic inheritance in familial Meniere disease mediated by MYO7A and other genes encoding stereocilia link proteins"

16.30 - 17.00 BREAK

17.00 - 18.00 KEYNOTE SPEAKER

Session Chair: David Landeira

Miguel Beato Centre for Genomic Regulation, Barcelona, Spain

"Unexpected findings in progesterin gene regulation"

18.00 - 18.30 AWARDS AND CLOSING



IX JORNADAS CIENTÍFICAS GENYO 2021

Organizing Committee:

Marta Alarcón Riquelme
David Landeira
Juan Carlos Rodríguez-Manzaneque

Scientific Committee:

Sara Rodríguez Heras
Guillermo Barturen Briñas
Lourdes López Onieva
Pedro Carmona Sáez
Georgina Antígona Galicia Rosas
Juan José Díaz Mochón

Collaborators:

Manuel Orcera
Alberto Ramírez
Raffaele Donnabella

Sponsors

Gold



Silver



Bronze



IX JORNADAS CIENTÍFICAS GENYO 2021

POSTERS

- 1 Aguilar-González, Araceli**
CRISPNA as a tool for genome editing and diagnosis
- 2 Alvarez Perez, Juan Carlos**
Development of lung cancer preventive models
- 3 Andrades Delgado, Álvaro**
Genome-wide analysis of recurrent splicing aberrations in diffuse large B-cell lymphoma
- 4 Benítez Cantos, María Soledad**
Dynamics of TCR repertoire upon SARS-CoV-2 vaccine and disease immunization
- 5 Blanco Benítez, Carlos**
Study of the behaviour and the safety of an inducible transactivator-free Tet-On system
- 6 Blaya Cánovas, José Lucas**
Development and characterization of a taxane-resistant model of triple negative breast cancer enriched in cancer stem cells
- 7 Cabrera Serrano, Antonio José**
Type 2 diabetes-related variants influence the risk of developing Prostate Cancer: a population-based case-control study and meta-analysis
- 8 Calahorra García Moreno, Jesús**
HYDROXYTYROSOL AND β -LAPACHONE AS A NOVEL THERAPEUTIC APPROACH AGAINST TRIPLE NEGATIVE BREAST CANCER
- 9 Cañadas Garre, Marisa**
Polymorphisms within autophagy-related genes as susceptibility biomarkers of multiple myeloma: a meta-analysis of three large cohorts
- 10 Caracuel Peramos, Rita**
UNVEILING A NEW IMMUNOMODULATORY FUNCTION OF NIDOGEN 1 IN THE B16F1 MURINE MELANOMA MODEL
- 11 Castellini Pérez, Olivia**
The Epigenome of Systemic Lupus Erythematosus: Molecular subtypes, Autoantibody profiles, and Genetic influences
- 12 Cerón Hernández, Jorge**
Generation of a model for genetically modified platelets production to study KRAS G12D mRNA transfer to different cell lines.
- 13 COLOMER BORONAT, ANA**
Consequences of DGCR8 haploinsufficiency in human pluripotent cellular model
- 14 Cortijo Gutiérrez, Marina**
Creation of next generation CAR-T by Repurposing endogenous immune pathways.
- 15 Escalera Balsera, Alba**
DNA Methylation profile in Mononuclear Cells in Sporadic Meniere Disease Phenotypes
- 16 Gallardo de los Reyes, Amador**
Polycomb regulates cell plasticity and metastasis in lung cancer
- 17 García Díaz, Abel**
USEFULNESS OF LIQUID BIOPSY IN THE MONITORING AND TREATMENT OF THE COPD PATIENTS
- 18 García García, Daniel Jesús**
Analysis of the genetic alterations of ARID2 in acute lymphoblastic leukemia.

IX JORNADAS CIENTÍFICAS GENYO 2021

- 19 García Moreno, Adrian**
GeneCodis4: Expanding the modular enrichment analysis to regulatory elements.
- 20 Gomez Hernandez, Gonzalo**
Defining the role of BANK1 in Age-associated B cells and autoimmunity
- 21 González Martínez, Coral**
Platelets prevent cell death and apoptosis in prostate cancer cell lines under stress conditions
- 22 Hinckley Boned, Ana**
New regulatory region in WAS intron 1 involved in megakaryocytic differentiation
- 23 Justicia Lirio, Pedro Luis**
Development of 4th generation regulated CAR-T cells (iTRUCKs) targeting pancreatic solid tumors
- 24 Linde Rodríguez, Ángel**
DEVELOPMENT OF A THERAPY BASED ON NANOBODY AGAINST THE HERPES SIMPLEX VIRUS - 1.
- 25 López Tejada, Araceli**
Effect in cancer stem cells of repurposed drugs based on the inhibition of NDRG1 for the treatment of TNBC
- 26 Martínez Navajas, Gonzalo**
Therapeutic Lentiviral Vectors development for Bernard-Soulier Syndrome treatment.
- 27 Mercau, Juan Rodrigo**
Unveiling BCL7A role in acute myeloid leukemia
- 28 Moñiz Díez, Ana María**
Autophagy-related genetic variants as CRUCIAL susceptibility markers for chronic lymphocytic leukemia
- 29 Ramírez López, Viviana Gabriela**
Influence of obesity-associated gene polymorphisms and environmental exposure to bisphenols and parabens on body mass index variability
- 30 Ramírez Macías, Inmaculada**
Trypanocidal activity of dendrimers.
- 31 Ramos Hernández, Iris**
Targeting CX3CR1 for gene editing strategies as specific myeloid safe harbor on HSPCs
- 32 RITORÉ SALAZAR, FÉLIX**
Testing the inhibition of Akt pathway to enhance desmosomal PKP1 protein involved in tumor suppression
- 33 Rodríguez Martínez, Alba**
Platelets Lead Morphological, Phenotypic and Functional Changes in Tumor Cells
- 34 Sánchez, María**
Bank1 and IL-10+ B cells: Bringing some light to the relation between microbiota composition and autoimmunity development in a murine model of lupus.
- 35 Sánchez Maldonado, Jose Manuel**
Validation of GWAS-Identified Variants for Anti-TNF Drug Response in Rheumatoid Arthritis: A MetaAnalysis of Two Large Cohorts
- 36 Sanjuán Hidalgo, Juan**
Targeting KRAS driver mutations in lung cancer

IX JORNADAS CIENTÍFICAS GENYO 2021

37 Simón Sáez, Iris

Castration Resistance Prostate Cancer cellular models develop Cross-resistance to alternative second-line treatments Apalutamide and Docetaxel.

38 SORIANO LERMA, ANA

AN IMPAIRMENT IN THE INTESTINAL BARRIER AND INCREASED MICROBIAL TRANSLOCATION IS TRIGGERED AS A CONSEQUENCE OF IRON DEFICIENCY ANAEMIA

39 Valero Griñán, Teresa

TARGETOF: Mass cytometry nanotools for intracellular target engagement.

40 Villatoro García, Juan Antonio

DataC: Applications to Explore the Environmental and Air Quality Factors Associated with COVID-19 at Global Level

41 Vuelta, Elena

CRISPR/Cas9-directed gene trap constitutes a selection system for corrected BCR/ABL leukemic cells in CML

42 Widmann, Thomas

Somatic LINE retrotransposition in motoneurons

43 Robles Remacho, Agustín

Advancing in novel Dynamic Chemistry Labelling applications for molecular diagnostics