

VIII JORNADAS DE MEDICINA GENÓMICA Y ONCOLOGÍA GENYO 2020

Thursday, 10th December

09.00- 09.30 WELCOME AND INTRODUCTION

Prof. José Antonio Lorente Scientific Director – GENyO / Professor UGR

Ms. Marta Reboredo Ares Directora del Área de Gestión de Centros,
Programas y Proyectos de I+i

PhD STUDENT SESSIONS (<3 YEARS OF RESEARCH
EXPERIENCE)

Session Chair: María Tristán Manzano

09.30-09.45 **Ana Colomer Boronet**

“Analysing the role of DGCR8 in pluripotency and 22q11.2 Deletion Syndrome”

09.50-10.05 **Pablo Graván Jiménez**

“Application of solvent displacement method to generate hydrophobic Maslinic acid nanoparticles with inherent antitumor activity”

10.10-10.25 **Pedro Luis Justicia Lirio**

“Generation of lentiviral vectors that mimic the expression pattern of the TCR to control CD19-CART therapy”

10.30-10.45 **María Botía Sánchez**

“Characterising the Gut Immune Response through the Determination of IgG and IgA-bound Faecal Bacteria with Flow Cytometry”

10.50-11.05 **Kristina Pavlovic**

“Improvement of “off-the-shelf” allogenic CAR-T cells”

11.10-11.25 **Victoria Sánchez Martín**

“Targeting G-quadruplexes for colorectal cancer treatment”

11.30-12.00 **COFFEE BREAK + EVALUATION**

12.00-13.00 **MEET THE EXPERT SESSION**

Session Chair: Rosario Sánchez Martín

Concepción Marañón Principal Investigator, GENYO

Flow Cytometry

Francisco Martín Principal Investigator, GENYO

Immunotherapies

Rosario Sánchez Pernaute Scientific Director, RaDYTA

Clinical Trial

Raul Torres Postdoctoral Researcher, IJC and CNIO

Gene Editing

13.00-14.00 **POSTER SESSION**

14.00-15.00 **KEYNOTE SPEAKER**

Prof. Christian Rolfo Director of the Thoracic Medical Oncology and the Early Clinical Trials at UMGCCC and Professor in the Division of Hematology-Oncology at University of Maryland School of Medicine

“From translational to clinical application of liquid biopsy”

15.00-16.00 **LUNCH**

16.00-17.00 **MEET THE EXPERT SESSION**

Session Chair: Karim Benabdellah

Guillermo Barturen PhD Researcher, GENYO

Bioinformatic

Francisco José Román Rodríguez Lead Translational Scientist, NHS Foundation Trust

GMP facilities

Rosario Sánchez Martín University of Granada

Nanomedicine

MASTER STUDENT SESSIONS

Session Chair: Pedro Luis Justicia Lirio

17.00-17.15 **Carlos Blanco Benitez**

“Generation of more efficient lentiviral vector packaging cells for gene-cell therapy applications”

17.20-17.35 **Antonio José Cabrera Serrano**

“Polymorphisms within autophagy-related genes influence the risk of developing colorectal cancer: a meta-analysis of four large cohorts”

17.40-17.55 **Ana Gázquez Gutiérrez**

“Exploring the activation of an interferon response mediated by retroelements in human pluripotent cells”

18.00-18.30 EVALUATION

Friday, 11th December

PHD STUDENT SESSIONS (>3 YEARS OF RESEARCH EXPERIENCE)

Session Chair: Belén Rubio Ruiz

09.30-09.45 **Araceli Aguilar González**

“Generation of GAA-KO cellular models to study gene therapy strategies for Pompe disease”

09.50-10-05 **Maria Benítez Guijarro**

“The line-1 interactome is dynamic during cellular differentiation”

10.10-10.25 **Raquel Benítez Ruiz**

“Cortistatin gene plays a critical role in the regulation of chronic hepatic fibrosis”

10.30-10.45 **María Tristán Manzano**

“Development of lentiviral vectors for fine-tuned regulated immunotherapy”

10.45-11.00 **BREAK + EVALUATION**11.00-12.00 **FLASH TALKS***Session Chair: Noelia Maldonado Pérez***Marina Villaverde Marin**

“Development of a nanodevice for targeted delivery in T cells (T-NP)”

Francisco Pérez Cozar

“Biomarkers in urine for non-invasive diagnostic of renal pathology associated to systemic autoimmune diseases”

Juan Sanjuan Hidalgo

“Selective targeting of KRAS oncogenic mutations in lung cancer”

Marina Cortijo Gutiérrez

“Creation of next generation CAR-T by Repurposing endogenous immune pathways”

Ángel Linde Rodríguez

“Development of a therapy based on nanoantibodies against the influenza a virus”

Juan Elías González Correa

“Gene-Cell therapy for Pompe disease”

Paola Peinado Fernández

“ARID1A: The Good, The Bad and the Ugly”

Carlos Peris Torres

“Extracellular protease ADAMTS1 plays a relevant role in tumor microenvironment remodeling: stemness and endothelial plasticity in uveal melanoma cells”

Silvia Redondo García

“ADAMTS1 role in Lewis Lung Carcinoma progression and its connection to Endoglin, its new partner in crime”

Alba Rodríguez Martínez

“Mass cytometry allows high-dimensional phenotypic analysis of circulating tumor cells of prostate cancer patients”

12.00-12.30 **BREAK + EVALUATION**

12.30-14.00 **CLINICAL TRIALS SESSION**

Session Chair: María Jose Serrano

José Luis García Puche

Cynthia Morata

Bernardino Alcázar Navarrete Hospital de Alta Resolución de Loja

Estefanía García Guerrero Instituto de Biomedicina de Sevilla

Arturo López VP & Cluster Medical Director, GSK

Encarna González Flores Unidad de Oncología del Hospital Virgen de las Nieves.

María Juliana Martínez Atienza Red Andaluza de Diseño y Traslación de Terapias Avanzadas. Fundación Progreso y Salud

14.00-14.30 **MEETING AWARDS AND CLOSING**



CENTRO PFIZER-UNIVERSIDAD DE GRANADA-JUNTA DE ANDALUCÍA
DE GENÓMICA E INVESTIGACIÓN ONCOLÓGICA

Organising entity:

Fundación Pública Andaluza Progreso y Salud through GENYO.

Organizer Committee:

Dra. Rosario Sánchez
Dra. María José Serrano
Dr. Karim Benabdellah

Collaborators:

Alberto Ramírez
Manuel Orcera
Noemí Dougnac

Sponsors:

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POSTERS:

MASTER STUDENT:

1. *Development of a nanodevice for targeted delivery in T cells (T-NP)*. Marina Villaverde Marín, Genyo.
2. *Biomarkers in urine for non-invasive diagnostic of renal pathology associated to systemic autoimmune diseases*. Francisco Pérez Cózar, Genyo

< 3 YEARS EXPERIENCE:

3. *Selective targeting of KRAS oncogenic mutations in lung cancer*. Juan Sanjuan Hidalgo, Genyo.
4. *Creation of next generation CAR-T by Repurposing endogenous immune pathways*. Marina Cortijo Gutiérrez, Genyo.
5. *Development of a therapy based on nanoantibodies against the influenza A Virus*. Ángel Linde Rodríguez, FIBAO.
6. *Gene-Cell therapy for Pompe disease*. Juan Elías González Correa, Genyo
7. *Non invasive cellular and molecular analyses for the monitoring of COPD evolution using liquid Biopsy*. Abel García Díaz, Genyo
8. *Discovery of driver mutations in long non-coding RNAs in lung adenocarcinoma*. Álvaro Andrades Delgado, UGR
9. *Suicide gene therapy directed by miRNA activity in lung adenocarcinoma*. Alberto M. Arenas Molina, UGR / Genyo
10. *Hyperoxia and parp inhibition differentially modulate transcription profile and inflammation in aggressive melanoma and non-transformed lung epithelial cells*. Ana Belén Herrera Campos, IPBLN – CSIC
11. *Polymorphisms within the TNFSF4 and MAPKAPK2 loci influence the risk of developing invasive aspergillosis: a two-stage case control study in the context of the aspBIOMics consortium*. Ana María Moñiz Díez, FIBAO
12. *CCN2 and long non-coding RNA AL133346.1 expression are highly correlated in pediatric B-cell acute lymphoblastic leukemia*. Daniel Jesús García García, UGR / Genyo
13. *Generating a Bernard-Soulier Syndrome model and its correction by gene therapy*. Gonzalo Martínez Navajas, Genyo
14. *Defining the role of BANK1 in Age-associated B cells and autoimmunity*. Gonzalo Gomez Hernandez, Genyo
15. *Genome editing strategies for pompe disease*. Iris Ramos Hernández, Genyo
16. *Development of Doxorubicin-loaded nanosystems for triple-negative breast cancer treatment*. José Manuel Espejo Román, Genyo
17. *Design and formulation of a nanocarrier for selective drug delivery based on monoclonal antibody specific recognition*. Jose Antonio Laz Ruiz, Genyo

18. *DExMA: performing gene expression meta-analysis with missing genes.* Juan Antonio Villatoro García, Genyo
19. *BCL7A in Acute Promyelocytic Leukemia.* Juan Rodrigo Mercáu, UGR
20. *Assessment of efficacy and safety of universal and physiological aCD19-CAR T cells.* Noelia Maldonado Pérez, Genyo
21. *A new immunomodulatory role of nidogen 1 regulating macrophage polarization.* Rita Caracuel Peramos, Genyo

> 3 YEARS EXPERIENCE

22. *ARID1A: The Good, The Bad and the Ugly.* Paola Peinado Fernández, UGR
23. *Extracellular protease ADAMTS1 plays a relevant role in tumor microenvironment remodeling: stemness and endothelial plasticity in uveal melanoma cells.* Carlos Peris Torres, Genyo
24. *ADAMTS1 role in Lewis Lung Carcinoma progression and its connection to Endoglin, its new partner in crime.* Silvia Redondo García, Genyo
25. *Mass cytometry allows high-dimensional phenotypic analysis of circulating tumor cells of prostate cancer patients.* Alba Rodríguez Martínez, Genyo
26. *Development and integration of a nanotechnology bead-based system with dynamic chemical labelling for nucleic acid capturing and analysis by flow cytometry.* Agustín Robles Remacho, Genyo
27. *Molecular mechanisms of Abiraterone and Enzalutamide resistance induction after androgen deprivation in prostate cancer.* Iris Simón Sáez, Genyo
28. *Exosomes versus synthetic nanoparticles for cancer Nanotherapy.* Pablo Hernández Camarero, Universidad de Jaén