



# 16th IMIBIC YOUNG INVESTIGATORS MEETING

## PROGRAMME

### Day 1 (1<sup>st</sup> OCT)

**08:00 – 08:30**

**Registration and Poster display**

**08:30 – 09:00**

**Opening ceremony  
(IMIBIC Assembly Hall)**

**09:00 – 10:30**

**Session I. Cancer I  
(IMIBIC Assembly Hall)**

*Chairs: Dr. Juan Antonio Moreno  
Gutiérrez and Dr. Francisco Rojas  
Vega*

→ **Ia. 09:00 – 09:15**

Dysregulation of a RNA exosome component: A driving force for prostate cancer progression and metastasis. **Francisco Porcel Pastrana**

→ **Ib. 09:15 – 09:30**

DYRK2 orchestrates MAPK signaling and melanoma therapy resistance. **Miguel Torres Ramos**

→ **Ic. 09:30 – 09:45**

Dysregulation of splicing machinery influences molecular heterogeneity and cellular metabolism of bladder cancer cells. **Ignacio Gil Duque**

→ **Id. 09:45 – 10:00**

Role of alternative splicing in lung neuroendocrine tumors: exploring the OTP-CD44 axis. **Laura Gutiérrez Camacho**

→ **Ie. 10:00 – 10:15**

Microbial profiles in pseudomyxoma peritonei reveal novel findings, including fungal detection. **Rafaela Rocha Pezzopane**

→ **If. 10:15 – 10:30**

Exploring the molecular and immune profile of breast cancer from pregnancy to postpartum: shedding light on the tumor-immune microenvironment during lactation. **Regina Peña Enríquez**

**10:30 – 11:00**

**Coffee Break**

**11:00 – 12:30**

**Session II. Chronic and  
inflammatory diseases I  
(IMIBIC Assembly Hall)**

*Chairs: Hatim Boughanem & Dr.  
André Sarmento Cabral*

→ **IIa. 11:00 – 11:15**

Integrative Multi-Omics stratification of rheumatoid arthritis reveals disease stage-specific profiles and predictors of treatment response. **Ismael Sánchez Pareja**

→ **IIb. 11:15 – 11:30**

FGF23 neutralization leads to impaired vascular dysfunction through modulation of arterial stiffness and vascular remodeling. **Raquel María García Sáez**

→ **IIc. 11:30 – 11:45**

Integrative lipidomic and inflammatory profiling in rheumatoid arthritis: links to disease activity, therapeutic response, and hepatic mechanisms. **Laura Muñoz Barrera**

→ **IIId. 11:45 – 12:00**

Clinical and ultrasonographic evaluation in patients with early-onset rheumatoid arthritis: treatment response and histological pathotypes in synovial biopsy. **Andrea Cid Chaves**

→ **IIe. 12:00 – 12:15**

Multi-Omic characterization of systemic lupus erythematosus endotypes: advancing precision understanding of cardiovascular and renal involvement. **Lydia Formanti Alonso**

→ **IIf. 12:15 – 12:30**

Ferroptosis is involved in renal damage associated to hemoglobin overload in a murine model of Sickle Cell Disease. **Mercedes Vallejo Mudarra**

**12:30 – 13:30**

**Special Session & Awards - Biomol**  
**(IMIBIC Assembly Hall)**

**13:30 – 15:00**

**Lunch**

**15:00 – 15:45**

**Poster Session I**  
**(IMIBIC Meeting & Multipurpose Room)**

*Chairs: Dr. Silvia Fernández Álvarez, Dr. Iván Arias de la Rosa & Dr. David García Galiano*

**15:45 – 17:15**

**Session III. Nutrition**  
**(IMIBIC Assembly Hall)**

*Chairs: Dr. Cristian Rodelo Haad & Dr. Alejandro Ibáñez Costa*

→ **IIIa. 15:45 – 16:00**

Alterations of the hypothalamic Kiss1 neuronal activity in the arcuate nucleus in response to different diets. **Rodrigo Jiménez Ulloa**

→ **IIIb. 16:00 – 16:15**

Preventing sepsis in preterm infants with bovine lactoferrin: a randomized trial exploring immune and antioxidant effects. **Virginia Plaza Astasio**

→ **IIIc. 16:15 – 16:30**

Hypothalamic SIRT1-mediated regulation of the hormonal trigger of ovulation and its repression in energy

deficit. **Silvia Daza Dueñas**

→ **IIId. 16:30 – 16:45**

3D spheroid models as a novel strategies to analyze obesity-associated adipose tissue dysfunction and fibrosis. **Beatriz González Almécija**

→ **IIIe. 16:45 – 17:00**

Analysis of the role of hepatic kisspeptin system in energy and metabolic homeostasis: Influence of sex and feeding status. **Esperanza Uceda Rodríguez**

→ **IIIf. 17:00 – 17:15**

Nimacimab, a peripherally restricted CB1R inverse agonist, alleviates diet-induced obesity and improves metabolic function in humanized CB1R Mice. **Francisco José Ponce Díaz**

**17:15 – 17:45**

**Biomedicine & Bioengineering: a practical case (IMIBIC Assembly Hall)**

**17:45 – 19:15**

**Session IV. Infectious and immunological diseases (IMIBIC Assembly Hall)**

*Chairs: Dr. Rafael González Manzanares & Dr. Henning Kirst*

→ **IVa. 17:45 – 18:00**

Mortality of bloodstream infections caused by ESBL-producing Enterobacterales in solid organ transplant recipients versus non-transplant patients: a multicentre, international, retrospective matched cohort study (INCREMENT vs INCREMENT-SOT). **Elisa Ruiz Arabi**

→ **IVb. 18:00 – 18:15**

Decoding tissue-specific virulence mechanisms of Salmonella Typhimurium in porcine hosts. **Antonio Romero Guillén**

→ **IVc. 18:15 – 18:30**

Gut microbiome diversity predicts mortality in carbapenemase-producing Klebsiella pneumoniae colonized patients. **Juan Antonio Marín Sanz**

→ **IVd. 18:30 – 18:45**

Emergence of infections caused by carbapenemase-producing *Proteus mirabilis*: OXA-48: analysis of the PROTECOR cohort. **Juan Jesús Pineda Capitán**

→ **IVe. 18:45 – 19:00**

Surveillance of rat Hepatitis E Virus in Nigeria: serological and molecular evidence and associated risk factors. **Lucía Ríos Muñoz**

→ **IVf. 19:00 – 19:15**

Immunometabolic remodeling in the porcine ileum during *Salmonella* infection: insights from Single-Cell RNA sequencing. **José Manuel Suárez Cárdenas**

## Day 2 (2<sup>nd</sup> OCT)

**08:00 – 08:30**

**Registration and Poster display**

**08:30 – 10:00**

**Session V. Cancer II**

**(IMIBIC Assembly Hall)**

*Chairs: Dr. Juan Luis Romero Cabrera & Dr. Elena Pérez Nadales*

→ **Va. 08:30 – 08:45**

The role of RNA methylation and splicing dysregulation in neuroendocrine neoplasms biology. **Daniel Ruiz Palacios**

→ **Vb. 08:45 – 09:00**

A novel feedback loop between DYRK2 and USP28 regulates cancer homeostasis and DNA damage signaling. **Lucía Suanes Cobos**

→ **Vc. 09:00 – 09:15**

Exploring MUC13 as potential therapeutic target in pseudomyxoma peritonei. **Melissa Granados Rodríguez**

→ **Vd. 09:15 – 09:30**

Dysregulation of the matrisome in periprostic adipose tissue drives prostate cancer progression: oncogenic role of LAMB1/RPSA-receptor axis. **Antonio Prats Escribano**

→ **Ve. 09:30 – 09:45**

Relevance of mRNA metabolism dysregulation in glioblastoma. **Miguel Eduardo García García**

→ **Vf. 09:45 – 10:00**

Differential gene expression analysis according to the CEBPA gene mutational status in Acute Myeloid Leukemia patients. **Esther Prados de la Torre**

**10:00 – 10:30**

**Coffee Break**

**10:30 – 11:15**

**Poster Session II (IMIBIC Meeting & Multipurpose Room)**

*Chairs: Dr. Silvia Fernández Álvarez, Dr. Iván Arias de la Rosa & Dr. David García Galiano*

**11:15 – 12:45**

**Session VI. Chronic and inflammatory diseases II (IMIBIC Assembly Hall)**

*Chairs: Dr. Pedro Gómez Arias & Dr. Antonio Carlos Fuentes Fayos*

→ **VIa. 11:15 – 11:30**

Safety and tolerability of diuretics withdrawal in patients with heart failure with reduced ejection fraction. REDICAE trial. **Jesús Alberto Torres Zamudio**

→ **VIb. 11:30 – 11:45**

Distinct ex vivo immune signatures modulated by JAK and TNF inhibitors predict treatment response in biologic and targeted synthetic DMARDs-naïve rheumatoid arthritis Patients. **Sagrario Corrales Díaz-Flores**

→ **VIc. 11:45 – 12:00**

Percutaneous revascularization of chronic total coronary artery occlusions reduce pro-inflammatory and hypoxic status in cardiac microenvironment. **Luis Carlos Maestre Luque**

→ **VIId. 12:00 – 12:15**

FGF23 as a bridge between energy metabolism and hypertension in chronic kidney disease. **Antonio Rivas Domínguez**

→ **VIe. 12:15 – 12:30**

Therapeutic modulation of NAD<sup>+</sup> metabolism in inflammatory rheumatic disorders by TNFi and NAD<sup>+</sup> precursors. **Beatriz Vellón García**

→ **VIf. 12:30 – 12:45**

Design of 3D scaffolds for hypoximetic drugs-controlled release and their application in wound healing. **Isabel Lastres Cubillo**

**12:45 – 13:45**

**Plenary Lecture (IMIBIC Assembly Hall).**

***"Harnessing CCR7<sup>+</sup> Dendritic Cells for Enhanced Cancer Immunotherapy".***

**Dr. Mauro Di Pilato (MD Anderson Cancer Center).**

**13:45 – 14:15**

**Awards and Closing ceremony (IMIBIC Assembly Hall)**