

PROGRAMME

Day 1 (13th OCT)

08:30 - 09:00

Registration and Poster display

09:00 - 09:30

Opening ceremony (IMIBIC Assembly Hall)

09:30 - 11:00

SESSION I. Cancer I (IMIBIC Assembly Hall) Chairs: Dr. Ana Gordon & Dr. David García.

→ Ia. 09:30 - 09:45

Tumor suppressor role of RBM22 in prostate cancer acting as a dual-factor regulating alternative splicing and transcription of key oncogenic genes. **Antonio Jesús Montero Hidalgo.**

→ Ib. 09:45 - 10:00

Adoptive transfer of human allogeneic Natural Killer cells for the improvement of anti-EGFR therapy in colorectal cancer: a preclinical study. **Carmen Navarrete Sirvent.**

→ Ic. 10:00 - 10:15

Left Atrial Strain Assessment in Long-Term Survivors of Childhood Acute Lymphoblastic Leukemia. Consuelo Fernández-Avilés Irache.

→ Id. 10:15 - 10:30

Laparoscopic Versus Open Primary Interval Cytoreductive Surgery and Hyperthermic Intraperitoneal Chemotherapy (HIPEC) in Peritoneal Carcinomatosis from Epithelial Advanced Ovarian Cancer: a comparative study. **Manuel Durán Martínez.**

→ Ie. 10:30 - 10:45

Proteomic dysregulation of splicing machinery is associated to aggressive hepatocellular carcinoma. **Natalia Hermán–Sánchez.**

→ If. 10:45 – 11:00

Revealing DYRK2 as a new regulator of the key MAPK pathway and its implications in colorectal and breast cancer. **Lucía Suanes Cobos.**

11:00 - 11:30

Coffee Break (IMIBIC Cafeteria)

11:30 - 12:45

SESSION II. Multidisciplinary I (IMIBIC Assembly Hall)

Chairs: Dr. Pedro Jesús Gómez & Dr. Antonio Romero

→ IIa. 11:30 – 11:45

Impact of KPC-producing Klebsiella pneumoniae relative bacterial load on all-site infection and all-cause mortality in patients with intestinal colonization: a prospective cohort study. **Alejandra Méndez Natera.**

→ IIb. 11:45 – 12:00

A pain-free home-based exercise program reduced kidney disease progression respect to the usual care in patients with claudication: an observational study. **Anna Crepaldi.**

→ IIc. 12:00 - 12:15

SARS-CoV-2's accessory proteins role in endothelial dysfunction. **Antonio Romero Guillén.**

→ IId. 12:15 - 12:30

Non-sense mediated decay as a potential source of biomarkers in chronic liver disease. **Betsaida Ojeda Pérez**.

→ IIe. 12:30 – 12:45

Characterization of extra-musculoskeletal manifestations and their influence on the phenotype of spondyloarthritis. Data from REGISPONSER registry. **Ignacio Gómez García.**

12:45 - 13:45

Poster session I (IMIBIC Meeting & Multipurpose Room)

Chairs: Dr. María Soledad Avendaño, Dr. Mario Frías & Dr. Alexander Batista

- → **PSI.a.** Analysis of the contribution of p53 in the metabolic regulation of Kissl neurons at female puberty. **Silvia Daza Dueñas.**
- → **PSI.b.** Role of NADH-cytochrome b5 reductase 3 in acute kidney injury associated to massive intravascular hemolysis. **Cristina García Caballero.**
- → **PSI.c.** Quantification tool of intestinal microbiota for the prediction of developing diabetes mellitus type 2. **Javier Arenas Montes.**
- → **PSI.d.** Ecological and clinical impact of an antimicrobial stewardship program on the incidence of carbapenem resistant Klebsiella pneumoniae. **Teresa López-Viñau López.**
- → **PSI.e.** ZIF-8 nanoparticles incorporated in kidneys scaffolds: A novel approach in the uremic toxins depuration. **Victoria Pulido Escribano.**



- → **PSI.f.** Determining the Difficulties of Students with Dyslexia via Virtual Reality and Artificial Intelligence: An Exploratory Analysis. **José Manuel Alcalde Llergo.**
- → **PSI.g.** Lumbopelvic rhythm in patients with acute low back pain compared with axial spondyloarthritis and healthy subjects. **Sandra Alcaraz Clariana**.
- → **PSI.h.** Design of novel mRNA vaccine candidates for induction of antibodies, TCD4+ and TCD8+ cell responses. **Amina Aldebis Moreno.**
- → **PSI.i.** Inflammatory cytokines: definition of normal values in healthy population. **Paula Álvarez Romero.**
- → **PSI.j.** Real-life validation of prognostic risk stratification according to ELN 2017 in AML patients. **Clara Aparicio Pérez.**
- → **PSI.k.** The impact of expanding hepatocellular carcinoma as an indication for liver transplantation on the waiting list length and composition. **Ana Aparicio Serrano**.
- → PSI.I. Analysis of the hypothalamic expression of the Prader-Willi Syndrome-related genes Magel2 and Ndn and their predicted microRNAs throughout pubertal development in lean and obese female rats. Álvaro Aranda Torrecillas.
- → **PSI.m** The experience of childbirth and the subsequent appearance of a mental disorder. **Irene Cabedo Olaya.**
- → **PSI.n.** Early and late intestinal complications after combined pancreas-kidney transplantation. **Rafael Calleja Lozano.**
- → PSI.ñ. Pillar pain as a complication of carpal tunnel syndrome surgery. Irene Calzado Álvarez de Lara.
- → **PSI.o.** Study of cyclic hypoxia, agitation and differential glucose supply in adipogenic differentiation. **Marta Camacho Cardeñosa.**
- → **PSI.p.** Monitoring disease evolution and treatment response in pancreatic cancer patients using liquid biopsy-based epigenetic biomarkers. **Pablo Francisco Cano Ramírez.**
- → **PSI.q.** Identification of novel molecular signatures associated with the therapeutic response to DMARDs and TNFi therapies in Rheumatoid Arthritis patients through high throughput proteomics. **Tomás Cerdó Ráez.**
- → **PSI.r.** Prevalence and risk factors for peripheral artery disease in a population with coronary heart disease: from the cordioprev study. **Maria del Pilar Coronado Carvajal.**
- → **PSI.s.** High throughput transcriptomic analysis of peripheral mononuclear cells identifies molecular alterations associated with the active clinical phenotype of Axial Spondyloarthritis. **Laura Cuesta López.**

- → **PSI.t.** Potential anti-proliferative role of the Liver Enriched Antimicrobial Peptide 2 (LEAP2), a new component of the ghrelin system, in prostate cancer cells. **Isidoro Di Caro.**
- → **PSI.u.** Aortic valve infiltrating proinflammatory cells in aortic stenosis patients. **Jose Joaquin Dominguez del Castillo.**
- → **PSI.v.** Evaluation of the performance of artificial intelligence (AI) after one year of use in breast cancer screening practice. **Esperanza Elías Cabot.**
- → PSI.w. Computer-assisted navigated piezoelectric resection and CAD-CAM designed PEEK prosthesis for the surgical resection of tumors affecting facial bones. A synergy of new technologies to improve the surgical results. Orlando Estevez Cordero.
- → **PSI.x.** The impact of Robot-assisted and Virtual Reality-based Neuromotor Rehabilitation on Health-related Quality of Life: A Systematic Review and Meta-Analysis. **Naima Z. Farhane Medina.**
- → **PSI.y.** Surgical treatment of cervicomediastinal goiter: Experience at a single centre. **Alba María Fernández González.**
- → **PSI.z.** Threshold concepts applied to oncological surgical pathology. Preliminary results. **María José Gálvez Medina.**
- → **PSI.aa.** Splicing machinery dysregulation as a source of novel diagnostic, prognostic and therapeutic targets in craniopharyngiomas. **Miguel Eduardo García García.**
- → **PSI.bb**. Loss of metabolic health in normal-weight individuals: Identification of visceral adipose tissue biomarkers. **Olga García Ruiz**.
- → **PSI.cc.** Analyzing the molecular mechanisms underlying the resistance to somatostatin analogues in Pheochromocytomas and Paragangliomas. **Víctor García Vioque.**
- \Rightarrow **PSI.dd.** GSK-3 β is a regulatory kinase of colorectal cancer immune microenvironment and the response to immunotherapy. **Aurora Rivas Crespo.**
- → **PSI.ee.** Immunotherapy followed by Cell Therapy in relapsed/refractory acute B cell lymphoblastic leukemia. **Ana Camila Gonzalez Teomiro.**
- → **PSI.ff.** Management and knowledge of soft tissue tumors / sarcoma: Update of primary care physicians. **Raquel Gracia Rodríguez.**
- → PSI.gg. SPARCC, MASES, LEI and MEI Indexes capture different patients with enthesitis in Axial Spondyloarthritis, Peripheral Spondyloarthritis and Psoriatic Arthritis. Raquel Ena María Granados.
- → **PSI.hh.** DNA Repair profile and temozolomide resistance in glioblastoma cells. **Inés Grávalos Cano.**



- → **PSI.ii.** Obesity induces central hypogonadism and metabolic comorbidities via miRNA-137/325 mediated repression of hypothalamic kisspeptin. **Yolanda Guerrero Ruiz.**
- → PSI.jj. Mindfulness-based Interventions in Adolescents with Type 1 Diabetes Mellitus: A Systematic Review. Tamara Gutiérrez Domingo.
- → PSI.kk. Functional Changes of CD4 and CD8 T-Cell Subsets with Age and CMV Infection. Fakhri Hassouneh.
- → **PSI.II.** Validity of the isometric contraction test for the diagnosis of muscle temporomandibular disorders, with DC/TMD axis I as gold standard. **Marcos Iglesias Peón.**
- → **PSI.mm.** Upper limb muscle mechanical characteristics in women with multiple sclerosis: a case-control study. **Carmen Jurado Lora.**
- → **PSI.nn.** Change in miRNA expression is induced by healthy diets and associated to the carotid intima-media thickness in patients with coronary heart disease: CORDIOPREV study. **Yelizaveta Krylova**.
- → **PSI.ññ.** COPD in Severe Mental Illness: A three years longitudinal study. **David Laguna Muñoz.**
- → PSI.oo. The effect of FGF23 blockade on blood pressure control in hypertension. Rodrigo López Baltanás

13:45 - 15:45

Lunch (IMIBIC Cafeteria)

15:45 - 17:15

Session III. Nutrition, Endocrine and metabolic diseases I (IMIBIC Assembly Hall)

Chairs: Dr. María Isabel Martínez & Dr. Iván Arias

→ IIIa. 15:45 – 16:00

Dysregulation of splicing machinery as early biomarker of diabetic nephropathy: From the CORDIOPREV study. **Alicia Podadera Herreros.**

→ IIIb. 16:00 – 16:15

Molecular and clinical implications of somatostatin receptor profile and somatostatin analogues treatment in high-grade astrocytomas. Ana de la Salud De la Rosa Herencia.

→ IIIc. 16:15 – 16:30

Role of Let-7b-5p and miR-191-5p in the development of early obesity and associated metabolic comorbidities. **Carmen Torres Granados.**

→ IIId. 16:30 - 16:45

Basketball exercise reduced plasma cytokines in prepubertal children. Bipic-study. **Cristina Castro Collado.**

→ IIIe. 16:45 – 17:00

Lessons from lean but metabolically unhealthy individuals: new highlights on adipose tissue dysfunction. **Elena Garrido Rascón**.

→ IIIf. 17:00 - 17:15

E-ducass Project: Educational strategy to improve cardiovascular health and food insecurity on a vulnerable population. **Esther Porras Pérez.**

17:15 - 18:30

SESSION IV. Multidisciplinary II (IMIBIC Assembly Hall)

Chairs: Dr. María Dolores Carmona & Dr. André Sarmento

→ IVa. 17:15 - 17:30

MicroRNAs in lung epithelial cells expressing SARS-CoV-2 accessory protein ORF8 can regulate immunometabolism. **José Manuel Suárez Cárdenas.**

→ IVb. 17:30 - 17:45

Integrated high-throughput proteomics and machine learning analysis in systemic lupus erythematosus patients identify distinctive clinical profiles and novel biomarkers related to cardiovascular risk and lupus nephropathy.

Ismael Sánchez Pareja.

→ IVc. 17:45 – 18:00

CMV in aortic stenosis. Pablo Álvarez Heredia.

→ IVd. 18:00 - 18:15

Effect of SARS-CoV-2 ORF7a on lung epithelial cells studying the microRNA and proteomic profiles. **Raúl Fernández Rodríguez.**

→ IVe. 18:15 - 18:30

Impact of ceftazidime-avibactam on clinical outcome in solid organ transplant recipients with bloodstream infections caused by carbapenemase-producing Klebsiella pneumoniae (INCREMENT-SOT Project). Victor Gálvez Soto.

Day 2 (14th OCT)

08:00 - 08:30

Registration and Poster display

08:30 - 10:00

Session V. Cancer II (IMIBIC Assembly Hall)
Chairs: Dr. Rafael González & Dr. Yolanda Jiménez

→ Va. 08:30 - 08:45

Mutational and phenotypic clonal evolution in relapsed-refractory acute myeloblastic leukemia. **Esther Prados De la Torre.**



→ Vb. 08:45 - 09:00

Orphan base specificity of abasic sites processing during DNA Base Excision Repair. **Marina Jordano Raya**.

→ Vc. 09:00 - 09:15

Breaking the mucin barrier: Discovering and testing new therapeutic targets in Pseudomyxoma peritonei. **Maria Carmen Vázquez Borrego.**

→ IVd. 09:15 - 09:30

Splicing factor SRSF6 as a novel therapeutic target for advanced prostate cancer. **Jesús Miguel Pérez Gómez.**

→ IVe. 09:30 - 09:45

Exploring the potential therapeutic role of somatostatin/cortistatin endocrine system in prostate cancer. **Prudencio Sáez Martínez.**

→ IVf. 09:45 - 10:00

Alteration in RNA metabolism unveils new therapeutic opportunities in pancreatic adenocarcinoma. **Ricardo Blázquez Encinas-Rey.**

10:00 - 10:30

Coffee Break (IMIBIC Cafeteria)

10:30 - 11:30

Poster session II (IMIBIC Meeting & Multipurpose Room)

Chairs: Dr. María Soledad Avendaño, Dr. Mario Frías & Dr. Alexander Batista

- → **PSII.a.** Severe aortic stenosis, long-term survival analysis in patients treated with self-expandable prosthesis and surgery. **María Teresa Conejero Jurado**.
- → **PSII.b.** Proliferative T-cell response against SARS-CoV-2 in convalescent COVID-19 infected patients. **Raquel Fernández Moreno.**
- → **PSII.c.** Dysregulation and functional relevance of the RNA-exosome machinery in hepatocellular carcinoma. **Samanta Lozano de la Haba.**
- → **PSII.d.** High Phosphate intake promotes renal and cardiac fibrosis during chronic kidney disease. **Teresa Obrero Sojo.**
- → **PSII.e.** Impact of pulmonary artery pressure on early outcomes and survival after lung transplantation in patients with chronic obstructive pulmonary disease. **Eloísa Ruiz López.**
- → **PSII.f.** Association between Fibroblast Growth Factor 23 and pulse pressure in Chronic Kidney Disease Stage G5 patients. **Isabel López López.**
- → PSII.g. Quality of child development scales.
 A systematic review. Sara María Luque de Dios.

- → **PSII.h.** Novel insights to understand the potential of the somatostatin/cortistatin system in neuroendocrine tumors (NETs) and carcinomas (NECs). **Federica Mangili.**
- → **PSII.i.** Oncometabolic features of GSNOR-deficient colorectal tumors impact immune surveillance and impair response to immunotherapy. **Ana Mantrana Soldado.**
- → **PSII.j.** The key role of abnormal fat distribution for prediction metabolic disease. **Laura Martín Piedra.**
- → PSII.k. Obesity due to a high-fat diet impacts the development and progression of prostate cancer in the TRAMP mouse model. **Fernando Mata Ordóñez.**
- → **PSII.I.** Relationship between depression and pathological cognitive dysfunction in older people 65 years old. **María Morales Cabanillas.**
- → PSII.m. Characterization of the splicing process in pheochromocytomas and paragangliomas. María Trinidad Moreno Montilla.
- → **PSII.n.** Acute kidney injury associated to intravascular hemolysis increases chronic renal fibrosis. **Jose Luis Morgado Pascual.**
- → PSII.ñ. Serum magnesium and mortality risk in Chronic Kidney Disease (CKD). An independent effect of nutritional and inflammatory status. Cayetana Moyano Peregrin.
- → **PSII.o.** Spliceosome alterations in leucocytes from APS, SLE and SLE+APS patients are closely related to their main clinical features. **Laura Muñoz Barrera.**
- → **PSII.p.** Resistance to alkylating agents: role of the phosphatase PNKP. **Ariadna Muñoz Fernández.**
- → PSII.q. Adherence to the Mediterranean diet in childhood at risk of obesity: MELIPOP Study. Belén Pastor Villaescusa.
- → **PSII.r.** Improvement of left ventricular ejection fraction in patients with heart failure with reduced ejection fraction: mid-term clinical impact. **Jorge Perea Armijo.**
- → **PSII.s.** Biomechanical analysis of the voice, characterization method in Amyotrophic Lateral Sclerosis (ALS). **Margarita Pérez Bonilla.**
- → **PSII.t.** CYB5R3 overexpression and dietary nicotinamide riboside supplementation influence mitochondrial status: effects in mitochondrial complexes and mitochondrial population ultrastructure of kidney from female and male mice. **Miguel Pérez Rodríguez.**
- → PSII.u. Identification and characterization of novel positive allosteric modulators for CB1R. Francisco José Ponce Díaz.



- → PSII.v. Phase I/II study of the single-arm efficacy and safety of the use of neutral argon plasma in the cytoreduction of miliary implants on the peritoneal surface. Alfonso Carlos Pontes García.
- → PSII.w. Association between metabolic syndrome and uric acid: a systematic review and meta-analysis. Elena Raya Cano.
- → PSII.x. SARS-CoV-2 infection increases CMV-associated cardiovascular risk. Ester Irene Reina Alfonso.
- → PSII.y. Muscle mechanical properties of pelvic floor and paravertebral muscles, and lumbar range of motion in women with and without urge incontinence urinary: casecontrol study. Ma Teresa Garzón Alfaro.
- → PSII.z. Evaluation of the in vitro and in silico interaction of a cationic peptide against colistin-resistant P.aeruginosa membrane models. Sandra Patricia Rivera Sanchez.
- → PSII.aa. The novel multiagonist, GLP1estrogen, improves the management of nonalcoholic fatty liver disease in lean and obese models of polycystic ovary syndrome. Andrea Rodríguez Martín.
- → PSII.bb. Metabolic adaptation of female mice overexpressing CYB5R3 and submitted to a caloric restriction intervention. Luz Marina Sánchez Mendoza.
- → PSII.cc. S-nitrosoglutathione reductase deficiency in colorectal cancer confers metabolic vulnerabilities that can be therapeutically exploited. María Teresa Sánchez Montero.
- → PSII.dd. Anti-glomerular basement membrane glomerulonephritis. A study in real life. Marina Sánchez-Agesta Martínez.
- → PSII.ee. Could the primary cilium predict progression from actinic keratosis to squamous cell carcinoma?. Alicia Sanz Zorrilla.
- → PSII.ff. Comparative Study of a Sjögren's Syndrome Cohort (Primary and Secondary). José Miguel Sequí Sabater.
- → PSII.gg. Analysis of the potential role of hepatic kisspeptin in energy and metabolic homeostasis. Esperanza Uceda Rodríguez.
- → PSII.hh. Oxidative environment and redox homeostasis in a rare malignant disease: Pseudomyxoma Peritonei. Francisca Valenzuela Molina.
- → PSII.ii. Ferroptosis is involved in acute kidney injury associated to massive intravascular hemolysis. Mercedes Vallejo Mudarra.
- → PSII.jj. Prognostic value of RAS mutation status changes in circulating tumor DNA of metastatic colorectal cancer patients. Alicia Vargas Aliaga.

- → PSII.kk. Gut microbial composition as a diagnostic tool for colorectal cancer. Ana María Vega Rojas.
- → PSII.II. The role of physical activity on psychological well-being in children and adolescent with type 1 diabetes: preliminary data of a cross-sectional study. Joaquín Villaécija Rodríguez.
- → PSII.mm. Adipokines and hepatokines as potential biomarkers of hepatocellular carcinoma. Javier Manuel Zamora Olaya.

11:30 - 13:00

Session VI. Nutrition, Endocrine and metabolic diseases II(IMIBIC Assembly Hall) Chairs: Dr. Clementina López & Dr. Cristian Rodelo

→ VIa. 11:30 - 11:45

Personalized diagnostic and therapeutic potential of miR-191-5p in the pathophysiological relationship between obesity and prostate cancer. **Francisco Porcel Pastrana**.

→ VIb. 11:45 - 12:00

The role of intestinal microbiota in the different prevalence of coronary disease between genders. **Helena García Fernández.**

→ VIc. 12:00 - 12:15

Impaired metabolic and inflammatory profile in adult patients with a history extra-uterine growth restriction. Laura Palomino Fernández.

→ VId. 12:15 - 12:30

Micronutrients and their implications in the incidence of type 2 Diabetes Mellitus. Pieces of evidence from the CORDIOPREV study. Lorenzo Rivas García.

→ VIe. 12:30 - 12:45

Effect of diet on the expression of microRNAs and its relationship with aging in patients with coronary heart disease: CORDIOPREV study.

Maite Sánchez Giraldo.

→ VIf. 12:45 - 13:00

Novel multiagonist therapy for efficient management of metabolic complications polycystic ovary syndrome. **Victor Serrano López.**

13:00 - 14:00

Plenary Lecture: Immunometabolism and Inflammation. Dr. María Mittlebrunn (Centro de Biología Molecular Severo Ochoa, Madrid, Spain)

14:00 - 14:30

Awards and Closing ceremony





