

Jornadas de Personal Investigador Joven

CIBERES – CIBERBBN

6 y 7 de noviembre de 2025, Euroforum (El Escorial)

Jueves 6 noviembre

11:00-11:30 h	Registro de asistentes
11:30-11:45 h	Apertura y bienvenida. María Molina (Directora CIBERES) y M. Rosa Aguilar de Armas (Subdirectora CIBER-BBN)
11:45-12:15 h	Charla: Factores a tener en cuenta en la solicitud de financiación internacional. Cristina Rodríguez (Responsable del departamento de Proyectos)
12:15-12:45 h	Charla-coloquio: ARISTOS: financiación MSCA COFUND y una historia real de éxito. Rafael Gómez (CIBER-BBN) y Vivianne Oliveira (CIBERES)
12:45-13:15 h	<i>Coffee-Break</i>
13:15-13:45 h	Mesa "Participación ciudadana y asociaciones de pacientes como catalizadores de la investigación biomédica". Mariano Pastor (Presidente FENAER) y Taide Casado Gómez-Cuétara (ANHP) . Modera: Ferran Barbé (CIBERES)
13:45 – 14:15 h	Charla-coloquio: Diagnóstico de pacientes pediátricos en Organ on Chip. Gabriel Alfranca (CIBER-BBN). Marta Camprubí (CIBERES). Modera: Guillermo Muñiz (CIBERES).
14:15-15:15 h	<i>Comida</i>
15:15-16:35 h	Comunicaciones orales CIBERES-CIBER-BBN. Bloque 1 Moderan: Guillermo Muñiz (CIBERES) y Raimon Jané (CIBER-BBN)
 Inflamación sistémica, metabolismo y función muscular en enfermedades respiratorias Temas: sarcopenia, EPOC, apnea del sueño, metabolismo, estrés oxidativo y proteómica 1. Systemic inflammation and oxidative stress in bronchiectasis patients with sarcopenia: implications for muscle function and pulmonary rehabilitation strategies. <i>Maria Cinta Cumpli Gargallo (Grupo Dra Barreiro, CIBERES)</i> 2. An explainable deep-learning approach to detect pediatric sleep apnea from single-channel airflow. <i>Verónica Barroso García (Grupo de Dr Hornero, CIBER-BBN)</i> 3. Proteolysis and autophagy in the vastus lateralis of patients with bronchiectasis-associated sarcopenia: role in training programs. <i>Maria Cinta Cumpli Gargallo (Grupo Dra Barreiro, CIBERES)</i> 4. Feasibility of Unsupervised Sleep Apnea Screening Using Pulse Rate Oscillations and SpO₂ with a Wrist-Worn Device. <i>Diego Cajal (Grupo Dr Laguna, CIBER-BBN)</i> 5. "GOLD E" versus "Frequent Exacerbator" classifications in COPD: A Proteo-Metabolomic Perspective. <i>César Jessé Enríquez-Rodríguez (Grupo Dra Barreiro, CIBERES)</i> 6. Proteomic Signatures of Inflammation and Cardiovascular Risk in Pediatric Obstructive Sleep Apnea (OSA). <i>Belén García Mediano (Grupo Dra Mediano, CIBERES)</i> 8. Epigenetic signatures of severe RSV infection in infants: evidence from non-invasive saliva samples. <i>María José Currás Tuala (Grupo Dr. Martinon, CIBERES).</i> Bloque 2*	

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16:35-17:00 h *Pausa café*

17:00-18:20 h **Comunicaciones orales CIBERES-CIBER-BBN. Bloque 2**
Moderan: *Esther Barreiro (CIBERES) y Jesús Cano (CIBER-BBN)*

Infecciones respiratorias emergentes y crónicas

Temas: COVID-19, tuberculosis

1. Persistence of *Haemophilus influenzae* and *Pseudomonas aeruginosa* strains in bronchiectasis patients: a longitudinal study. *Irene Cadenas Jiménez (Grupo Dra. Ardanuy, CIBERES)*
2. Molecular Gated Strategy for Rapid Detection of *Klebsiella pneumoniae* and Carbapenem-Resistant Genes in Respiratory and Hospital-Acquired Infections. *Alba López Palacios (Grupo Dr Martínez Máñez, CIBER-BBN)*
3. The footprint of hypercapnia on inflammatory pathways during bacterial infection. *Elena Campaña Duel (Grupo Dr. Blanch, CIBERES)*
4. Three Novel Molecular Gate Biosensors for the Rapid and Accurate Detection of Respiratory Pathogens: Influenza A, SARS-CoV-2 and *Pseudomonas aeruginosa*. *Andrea Torres Mesado (Grupo Dr Martínez Máñez, CIBER-BBN)*
5. Rapid, flexible, and scalable alternatives to conventional high-throughput whole genome sequencing to enhance surveillance of tuberculosis transmission. *Sheri Magdy Saleeb Bakheit Gadelkarim (Grupo Dra. Muñoz, CIBERES)*
6. Metabolic fingerprinting of covid-19: benchtop nmr spectroscopy for precision diagnostics in hospitals. *María del Pilar Alonso Moreno (Grupo Dr. Ruiz Cabello, CIBERES)*
7. Integrated Clinical-Molecular Approach with Plasma miRNome Profiling Predicts Subphenotype-Specific Mortality in Elderly COVID-19. *Manel Perez-Pons (Grupo Dr. Barbé, CIBERES)*
8. Extracellular Vesicle Profiling in Severe COVID-19 Related ARDS: The Impact of Chronic Liver Disease. *José Luis Román Fernández (Grupo Dr. Lorente, CIBERES)*

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Jueves 6 noviembre

18:20-20:15 h

Sesión pósters@beers

Moderan: Sara Martí (CIBERES), David de Gonzalo (CIBERES), Jesús Cano (CIBER-BBN), Miquel Ferrer (CIBERES), Paco Pérez Vizcaino (CIBERES), Joan B Soriano (CIBERES), Raimon Jané (CIBER-BBN), Ferran Barbé (CIBERES).

1. Assessment of Illumina and Oxford Nanopore Sequencing Approaches for 16S rRNA-Based Characterization of Respiratory Microbial Communities. *Guillem Macip (Grupo Dr Ferrer, CIBERES)*
2. Characterization of eosinophils in induced sputum and lung biopsy using Single Cell RNA-seq without subtype distinction. *Daniel Rodríguez González (Grupo Dra Del Pozo, CIBERES)*
3. Dendritic nano-technology for respiratory diseases. *Gabriel Mencia Berlinches (Grupo Dr R Gómez, CIBER-BBN)*
4. Consumption Patterns and Withdrawal Symptoms in dual Cannabis-Tobacco Users in Spain: Cross-sectional study. *Judith Saura (Grupo Dr. Fernandez Muñoz, CIBERES)*
5. Diagnostic transcriptomic signatures for Mycoplasma pneumoniae pneumonia to guide pediatric patient treatment. *Sandra Viz Lasheras (Grupo Dr Martinón, CIBERES)*
6. Design of Lateral Flow system for cytomegalovirus (CMV) detection by fluorescence in clinical samples on points-of-care. *Carolina Alventosa Díaz (Grupo Dr Martinez Máñez, CIBER-BBN)*
7. Differential cellular immune response in BAL after inhalation of pigeon serum and Aspergillus extract in acute and chronic murine models of hypersensitivity pneumonitis. *Marc Massa Gómez (Grupo Dr Muñoz Gall, CIBERES)*
8. Evolution of invasive pneumococcal disease in adults in Spain (2009-2024): impact of conjugate vaccines PCV20 y PCV21. *Elsa García Gonzalez (Grupo Dr Yuste, CIBERES)*
9. Targeted Senescent Cell Clearance Using a β -Galactosidase-Responsive Prodrug. *Jessie García Fleitas (Grupo Dr Martinez Máñez, CIBER-BBN)*
10. Formulating phage cocktails as adjuvant therapy in carbapenem-resistant Pseudomonas aeruginosa. *Viviane de Cássia Oliveira (Grupo Dr Ferrer, CIBERES)*
11. Manganese-Doped Amorphous Calcium Carbonate Nanoparticles as a Theranostic Platform for Breast Cancer. *Claudia Beatriz Miranda Pérez de Alejo (Grupo Dr Ruiz Cabello, CIBERES)*
12. Pneumococcal meningitis in adults: analysis of serotype distribution and antimicrobial resistance. *Sara Calvo Silveria (Grupo Dra Ardanuy, CIBERES)*
13. The Complex Interpretation of Heart Rate Variability Components in Mechanically Ventilated Patients. *Pablo Armañac Julian (Grupo Dr Laguna)*
14. Precision cut-lung slices (pcls): a lung organotypic living system that emulate pulmonary fibrosis. *Elena González Lozano (Grupo Dr Ruiz Cabello, CIBERES)*
15. Role of miRNAs shuttled by LPS-primed mesenchymal stem cell-derived extracellular vesicles in modulating macrophage activation. *Aina Areny Balagueró (Grupo Dr Blanch, CIBERES)*
16. Track Record and Capabilities of the Biomedical Engineering Group at the University of Valladolid in Respiratory Disease Research. *Fernando Vaquerizo Villar (Grupo Dr Hornero, CIBER-BBN)*
17. Standardisation of a method for the determination of specific IgE to soybean hull aeroallergen. *Víctor Guerra Ruiz (Grupo Dr Muñoz Gall, CIBERES)*
18. Takling the COPD oral-lung microbiome for developing prognostic biomarkers and drug-testing biomimetic tools. *Maite Erdociain Pérez (Grupo Dra Garmendia, CIBERES)*

20:15-21:30 h

Posters&beers Cena "finger"

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Viernes 7 de noviembre

9:15-10:25 h	Comunicaciones orales CIBERES-CIBER-BBN. Bloque 3 Moderan: <i>Jesús Ruiz Cabello (CIBERES) y Rafael Gómez (CIBER-BBN)</i>
 Biomarcadores inmunológicos y mecanismos moleculares en enfermedades respiratorias Temas: puntos de control inmunitario, fibrosis, respuesta a corticosteroides <i>6. Sleep Apnea Assessment in Stroke Patients using a Smartphone. Yolanda Castillo Escario (Grupo Dr Jané, CIBER-BBN)*, Bloque 1*</i> 1. Micromechanical regulation of tissue repair: ECM stiffness as a determinant of cell migration in the regenerating zebrafish heart. <i>Jorge Luis Castillo Robles (Grupo Dr Raya, CIBER-BBN)</i> 2. TIGIT: New immune checkpoint in obstructive sleep apnoea. <i>Paula Pérez Moreno (Grupo Dr García Río, CIBERES)</i> 3. «Heart-on-a-chip» as a biomimetic platform for cardiac physiology and drug toxicity testing. <i>Karine Tadevosyan (Grupo Dr Raya, CIBER-BBN)</i> 4. Genome-wide and pathway-specific polygenic effects on corticosteroid response in patients with severe infections. <i>Melody Ramírez Falcón (Grupo Dr Carlos Flores, CIBERES)</i> 5. Identifying leukocyte populations as biomarkers for chronic lung allograft dysfunction. <i>Iván Martínez Ballesterro (Grupo Dr. Muñoz Gall, CIBERES)</i> 6. Serum biomarkers in interstitial lung abnormalities and familial early interstitial lung disease. <i>Elsie María Vera Santiesteban (Grupo Dra. Molina, CIBERES)</i>	
10:25-11:00 h	Coffee-Break
11:00-12:20 h	Comunicaciones orales CIBERES-CIBER-BBN. Bloque 4 Moderan: <i>Jose Luís Lopez Campos (CIBERES) y Rafael Gómez (CIBER-BBN)</i>
 Bloque 4 – Fisiopatología y terapias avanzadas en daño y reparación pulmonar Temas: remodelado pulmonar, señalización celular, ventilación mecánica, nanopartículas y cáncer de pulmón 1. Functional Kir2 and KATP Channels in Human Pulmonary Vascular Smooth Muscle and Endothelium Modulate Arterial Tone. <i>Bianca Barreira Barba (Grupo Dr Perez Vizcaino, CIBERES)</i> 2. In vitro biomimetic microgel model for lung cancer. <i>Júlia Plá Salom (Grupo Dra Gallego, CIBER-BBN)</i> 3. The Specific Role of MAPK13 Isoform in Airway Barrier Dysfunction and Mucin Regulation. <i>Ruben Fernandez-Santamaria (Grupo Dra Del Pozo, CIBERES)</i> 4. Calorimetric Lateral Flow Immunoassay for the Detection of miRNAs associated to Pancreatic Cancer using Triangular Au Nanoparticles. <i>Antonio J Luna Pozo (Grupo Dr Martínez de la Fuente, CIBER-BBN)</i> 5. Interstitial lung disease protein biomarkers in post-COVID patients. <i>Adrián Gómez Del Rosario (Grupo Dr Flores, CIBERES)</i> 6. Substrate stiffness drives a transcriptional program linked to poor prognosis in lung adenocarcinoma. <i>Manuel Chacón Rodríguez (Grupo Dr Muñoz, CIBERES).</i> 7. The role of PPIA gene in lung repair during mechanical ventilation. <i>Sara María Exojo Ramírez (Grupo Dr Muñoz, CIBERES).</i> 8. Functionalised nanoparticles loaded with drugs: a new tool against pneumococcal growth and biofilm formation. <i>Mirella Llamós Fornés (Grupo Dr Yuste, CIBERES).</i>	
12:20–12:45 h	Iniciativas de los programas de Formación CIBERES - CIBER-BBN. <i>Laura Amado y Rafael Gómez - Coordinadores de formación.</i>
12:45-14:15 h	Comida - Premios/Clausura de las Jornadas

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