

## JORNADAS DE FORMACIÓN CIBERES / CIBER-BBN 2016

### Programa Científico

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#### Jueves, 29 de septiembre

10:00-10:30 Apertura / Presentación 9<sup>as</sup> Jornadas Formación CIBERES.  
**Ferrán Barbé, Director Científico CIBERES**  
**Ramón Martínez-Mañez, Director Científico CIBER-BBN**

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10:30-12:00 Presentación proyectos colaborativos

*MICROCOPD: 3D analysis of vascular architecture in emphysematous lungs using microcomputed tomography (microCT).*

**Victor Peinado (CIBERES) e Ignacio Ochoa (CIBER-BBN)**

*PVI-ANS-NCOG: Effects of an early neurocognitive intervention on patient-ventilator interaction and stress in critically ill patients receiving mechanical ventilation.*

**Lluís Blanch (CIBERES) y Raquel Bailón (CIBER-BBN)**

*TARMAC: New tools for the diagnosis and treatment of respiratory infectious diseases: pH-responsive matryoshka nanoparticles for an efficient and controlled intracellular delivery of oral antibiotics and gated nanoparticles for the detection of pathogenic microorganisms showing intracellular persistence.*

**José Domínguez (CIBERES-SEPAR), Manuel Arruebo (CIBER-BBN), y Vicente Candela (CIBER-BBN)**

**Moderador:** Ferrán Barbé. Director Científico CIBERES

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12:00-13:00 Pausa-Comida

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13:00-14:30 Sesión de Pósters 1

P1. Quick SOFA in a large population of community-acquired pneumonia: a validation study. **Enric Barbeta. Grupo 14**

P2. Evaluation of MALDI-TOF MS-based method for *Streptococcus spp.* correct identification. **María Ercibengoa Arana. Grupo 26**

P3. Continuous decrease of adult invasive pneumococcal disease (IPD) after introduction of pneumococcal conjugate vaccine 13 (PCV13). **Aída González. Grupo 19**

P4. Estudio de las lesiones tuberculosas obtenidas mediante cirugía terapéutica en Tbilisi, Georgia. **Albert Despuig. Grupo 17**

P5. KL-6 in serum is a potential biomarker to differentiate Chronic Allograft Dysfunction phenotypes in Lung Transplantation. **Alberto Mendoza Valderrey. Grupo 16**

P6. Fatal outcome in healthy influenza virus-infected patients is associated with reduced accumulation of defective viral genomes. **Ana Falcón. Grupo 32**

P7. Performance of V4 16S rRNA sequencing with Ion Torrent technology for microbiome characterization. **Antonio Espuela-Ortiz. Grupo 29**

P8. MicroRNA interference modulates inflammatory responses in ventilator-induced lung injury in rat lungs ex vivo and in human alveolar epithelial cells in vitro. **Antonio Ferruelo. Grupo 23**

P9. Using nanopore sequencing for bacterial genome characterization and microbiome profiling. **Beatriz Guillén-Guío. Grupo 29**

P10. Noninvasive ventilation for severely acidotic patients in respiratory intermediate care units. **María Hidalgo Sánchez. Grupo 15**

P11. IL-4-mediated alveolar macrophage activation and proliferation are differentially modulated by surfactant protein A and surfactant lipids. **Belén García-Fojeda. Grupo 1**

P12. Patient-ventilator asynchrony: effect of level of consciousness, sedation and analgesia. **Candelaria de Haro López. Grupo 33**

P13. Preventive effects of a home-based rehabilitation program after a severe exacerbation of COPD. **Cristina Lalmolda. Grupo 30**

P14. Comparative *in vivo* study of the virulence phenotype between different species from the *Mycobacterium tuberculosis complex*. **Elena Mata Lozano. Grupo 9**

P15. Development of a dry powder based on nanostructured lipid carriers for pulmonary drug delivery. **Mireia Aguirre. CIBER-BBN**

**Moderadores:** Asun Rocher, José Ángel Lorente, Cristina Prat, Manuel Arruebo

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14:30-16:00 Presentación proyectos colaborativos

NANBIOSEPRES: *Design and evaluation of a novel impedimetric immunosensor for the diagnosis of sepsis of respiratory origin due to Pseudomonas aeruginosa.*

**Pilar Marco (CIBER-BBN)**

IPFCELPLAST: *Cell plasticity and microenvironment in lung fibrosis: looking for its regulation as a potential treatment.*

**Vanesa Vicens (CIBERES)**

NANOCOPD: *Bioorthogonal nanoparticles for COPD theranostics.*  
**Fernando Herranz (CIBERES)**

**Moderador:** Ramón Martínez-Mañez. Director Científico CIBER-BBN

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16:00-16:30 Pausa-Café

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16:30-17:30 Presentación Plataforma de Internacionalización.  
Oportunidades de financiación en H2020. **Cristina Rodríguez**

**Moderador:** Cristina Prat. Coordinadora de Docencia de CIBERES

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## Viernes, 30 de septiembre

09:00-10:15 Sesión de Presentaciones Orales 1

01. "*Diia: a dimorphic surface protein of Streptococcus pneumoniae involved in pathogenesis. A potential vaccine candidate*" - **María de la Soledad Escolano Martínez. Grupo 2**

02. "*Biological age instead chronologic age as prognostic factor in IPF: clinical implications of telomere shortening*" - **Lurdes Planas. Grupo 5**

03. "*Protective cardiovascular effect of sleep apnea severity in obesity hypoventilation syndrome*" - **David Pedro Rodríguez. Grupo 15**

04. "*Alpha-hemolysin production in Staphylococcus aureus respiratory clinical strains: comparison of two assays and correlation with persistence and clinical outcome*" - **Dídac Domínguez. Grupo 17**

05. "*Phenotypic and metabolic features of mouse diaphragm and gastrocnemius muscles in chronic lung carcinogenesis: influence of underlying emphysema*" - **Anna Salazar-Degracia. Grupo 22**

**Moderadores:** Cristina Prat y María Jesús Cruz

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10:15-11:00 Sesión de Pósters 2

P16. Long-term cardiovascular outcomes in patients with Resistant Hypertension and Obstructive Sleep Apnea with or without treatment. SARAH study. **Esther Sapiña. Grupo 35**

P17. Modulation of potassium channels by microRNA-1 in pulmonary arteries. **Gema Mondéjar-Parreño. Grupo 28**

P18. Leptin resistance, inflammation and vascular disturbances in obese patients with obstructive sleep apnea and/or hypoventilation. **Elena Olea. Grupo 24**

P19. Pneumococcal diseases in COPD patients: an overview of resistance and serotypes. **Hisashi Shoji. Grupo 19**

P20. Effect of chronic intermittent hypoxia on the stiffness of brain tissue in young and old mice. **Ignasi Jorba. Grupo 12**

P21. Rats exposure to chronic intermittent hypoxia mimics aging effects on carotid body and vascular responses. **Inmaculada Docio. Grupo 24**

P22. Description of the innate immune response in bronchiolitis: possible Th2 polarization by type II innate lymphoid cells. **José Manuel Rodrigo-Muñoz. Grupo 7**

P23. Chronic intermittent hypoxia effects on plasmatic tumor markers could mislead the severity/staging of lung tumor situation. **Teresa Gallego. Grupo 24**

P24. Positive airway pressure-enhanced CT to improve virtual bronchoscopic navigation. **Marta Díez Ferrer. Grupo 30**

P25. Normoxic recovery mimicking obstructive sleep apnea treatment in mouse gut microbiota. **Marta Torres. Grupo 11**

P26. Epigenetic regulation in lung cancer patients with and without COPD. **Mercè Mateu. Grupo 22**

P27. Usefulness of multiplex polymerase chain reaction (RT-PCR) in the diagnosis of ICU-acquired pneumonia (ICUAP). **Adrian Ceccato. Grupo 14**

**Moderadores:** Asun Rocher, Jesús Ruiz Cabello, Carmen Ardanuy, Fernando Herranz

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11:00-11:30 Pausa-Café

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11:30-12:45 Sesión Presentaciones Orales 2

06. *"Impact of cigarette smoke in pneumococcal chronic respiratory infection"* - **Leire Aguinagalde. Grupo 2**

07. *"Multi-level differential network analysis of COPD exacerbations: the ECOS study"* - **Guillaume Noell. Grupo 10**

08. *"Role of miR-1 in pulmonary endothelial dysfunction"* - **María Callejo. Grupo 28**

09. *"Assessment of Pulmonary Blood Flow using 68Ga-DOTA PET"* - **Carlos Velasco Jimeno. Grupo 31**

010. *"Heparin effect in alveolar macrophages in acute lung injury model"* - **Marta Camprubí-Rimblas. Grupo 33.**

**Moderadores: José Angel Lorente y María Molina**

12:45-13:30 Sesión de pósters 3

P28. Effects of diesel exhaust particles exposure in a murine model of asthma due to soybean. **Miquel De Homdedeu. Grupo 16**

P29. Obstructive sleep apnoea (OSA) severity and daytime sleepiness: Role PGD2 and PGE2. **Monique Carolina Suárez Girón. Grupo 11**

P30. Screening for and characterization of novel antimicrobials against *Streptococcus pneumoniae*. **Noemí Bustamante. Grupo 34**

P31. Applicability, efficacy and cost effectiveness of sleep apnoea management by an information and communication based technology (ICT). Rationale, design and methods. **Onintza Garmendia. Grupo 11**

P32. Using BCG as experimental treatment for asthma in mice models. **Raquel Tarancón Iñiguez. Grupo 9**

P33. Search and design of lytic enzymes to fight streptococcal infections. **Roberto Vázquez Fernández. Grupo 2**

P34. Asthma biomarkers: methylation and correlation with functional parameters. **Selene Baos. Grupo 7**

P35. Study of the impact of an intervention strategy on the incidence of hospital-acquired pneumonia (HAP) outside the ICU. Preliminary results. **Valentina Isernia. Grupo 30**

P36. Investigating novel antimicrobial approaches. **Victor Fraile-Ágreda. Grupo 1**

P37. Functional evaluation of patients who will receive a hematopoietic stem cell transplantation using index distance-desaturation (DDR). **Yolanda Torralba García. Grupo 6**

P38. Intermittent hypoxia promotes Alzheimer's disease p-Tau marker in the brain: Differential effects in young and aged mice. **María José Menal Castellote. Grupo 12**

P39. Derivation and characterisation of endothelial cells from patients with chronic thromboembolic pulmonary hypertension. **Valérie Smolders. Grupo 6**

**Moderadores: María Molina, José Domínguez, María Jesús Cruz.**

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13:30-14:00 Entrega de premios y clausura de las jornadas de docencia

**Cristina Prat. Coordinadora Comisión Docencia CIBERES**  
**Roser Mias. Adjunta a Dirección Científica CIBERES**