

Chronic Respiratory Diseases

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DESCRIPTION

The Research Group on Chronic Respiratory Diseases (GREC) of the Department of Pulmonology at the Hospital Universitario de la Santa Creu i Sant Pau (HSCSP) has been a pioneer and is currently one of the leaders in pulmonary research. It combines clinical and translational research on chronic obstructive pulmonary disease (COPD)-Respiratory Insufficiency, Asthma, and obstructive sleep apnea-hypopnea syndrome (OSAHS). It hosts a basic science laboratory specialized in respiratory disease animal models and cell & molecular biology.

MAIN LINES OF RESEARCH

- **Asthma:** Asthma exacerbations; Severe asthma; Good clinical practice guidelines for asthma; Bronchial inflammation; Experimental asthma and pathogenic mechanisms; Multicentre biobank specializing in bronchial biopsies for asthma research; Bronchial thermoplasty; Clinical trials.
- **COPD and Respiratory Failure:** Non-invasive mechanical ventilation; Respiratory rehabilitation; Pathophysiology; Exacerbation.
- **Obstructive Sleep Apnoea (OSA):** Physiology and clinical, diagnostic and treatment consequences of sleep disorders; Obesity-hypoventilation syndrome; Analysis of airway inflammation in patients with OSA.

SCIENTIFIC CHALLENGES

- Consolidate a leading clinical trial unit in respiratory diseases. Capture pre-clinical development contracts from the pharmaceutical and biotech industry, using the capabilities of our basic



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research lab and experimental animal models. Recruit research trainees seeking a doctoral degree. Support the development of multidisciplinary research networks such as the Barcelona Respiratory Network and the Programme for Integrated Research for Asthma of the Spanish Society of Pneumology and Thoracic Surgery (SEPAR), and collaborate with or become involved in existing networks such as CIBER-Respiratory Disorders. Achieve and transfer pharmaceutical discovery in the core research line of the basic science lab.

DOCTORAL THESES DEFENDED

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SCIENTIFIC PRODUCTION

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5.1.5 Translational Medicine Area

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