

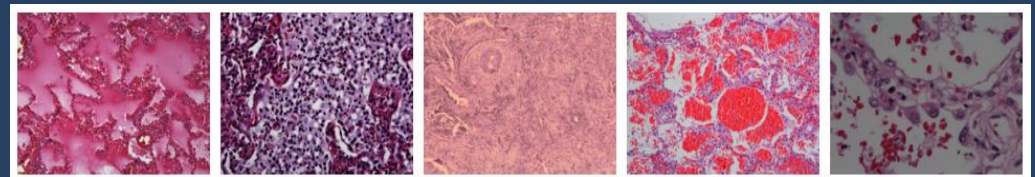
# Second International Symposium on Acute Pulmonary Injury Translational Research



Hospital Universitario de Getafe  
Ctra. de Toledo (A-42), Km 12'500  
28905 Getafe (Madrid)  
[www.hospitaluniversitariodegetafe.org](http://www.hospitaluniversitariodegetafe.org)

November 16<sup>nd</sup> – 17<sup>rd</sup> 2017

Organized by the  
Intensive Care Unit



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Oscar Peñuelas  
Nicolás Nin  
Fernando Frutos-Vivar  
Federico Gordo  
Arnaud W. Thille

## Scientific Committee

José A. Lorente  
Giacomo Bellani  
Marcus J. Schultz  
Guillermo Muñiz Albaiceta

### Summary of Meeting

The prevalence of acute pulmonary injury in the ICU is high, and current treatment is only supportive. As recently stated in the *state-of-the-art* pulmonary research conference (Aspen Lung Conference, 2007), where findings from the NHLBI ARDS Network clinical trials were summarized, clinicians and scientists hoped that new pharmacologic, biologic, and genetic approaches for a better understanding of pathogenesis, pathophysiology and treatment of ARDS would improve outcomes in the near future.

We herein announce the second conference on Translational Research in ARDS, held under the auspices of CIBERES and other scientific societies, where current state of the art on research in this area will be reviewed. Speakers have been selected among worldwide-recognized leaders in basic and translational research related to acute pulmonary injury.

At the symposium's conclusion, attendees will be familiar with the evidence used to support the current recommendations for the treatment of patients with ARDS. More importantly they will be introduced to the basic and translational research that will likely alter therapy for this disease within the next several years.

The Organizing Committee

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## Venue

**Aula Magna - Pabellón Docente**

**Hospital Universitario de Getafe**

Ctra. de Toledo (A-42), km 12'500

28905 Getafe (Madrid)

## Accreditation

Comisión de Formación Continuada de las Profesiones Sanitarias de la Comunidad de Madrid.

Sistema Nacional de Salud. (Requested)

## Registration

The registration fee includes:

- Course documentation
- Attendance at all scientific sessions
- Coffees and lunch

### Registration fee:

Members of Participating Scientific Societies	<b>300 €</b>
Non members	<b>350 €</b>

## With the scientific support of the following Societies:

	<b>SEMICYUC</b>	Sociedad Española de Medicina Intensiva y Unidades Coronarias
	<b>SEPAR</b>	Sociedad Española de Neumología y Cirugía Torácica
	<b>SOMIAMA</b>	Sociedad de Medicina Intensiva de la Comunidad de Madrid
	<b>ESICM</b>	European Society of Intensive Care Medicine
	<b>CIBERES</b>	CIBER de Enfermedades Respiratorias

The contents and ideas expressed in this symposium solely the responsibility of the authors and do not necessarily represent the official view of the scientific societies.

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**Raquel Herrero**

Hosp. Universitario de Getafe, Madrid, Spain

November 16		
09:00 – 09:30	Registration	
09:30 – 09:50	Lung histopathology of ARDS	Andrés Esteban
09:50 – 11:10	<b>Factors associated with outcome of ARDS</b>	<b>Moderator: Paolo Pelosi</b>
09:50 – 10:10	<b>Biomarkers in ARDS</b>	Judith Marín
10:10 – 10:30	<b>Subphenotypes of ARDS</b>	Lieuwe D. Bos
10:30 – 10:50	<b>Current ventilatory practices</b>	Marcus J. Schultz
10:50 – 11:10	<b>Lung injury in trauma</b>	Nicole P. Juffermans
11:10 – 11:20	Discussion	
11:20 – 11:40	Coffee break	
11:40 – 13:30	<b>The air compartment in ARDS</b>	<b>Moderator: Giacomo Bellani</b>
11:40 – 12:00	<b>Inhalation Therapies for ARDS</b>	Antonio Artigas
12:00 – 12:10	<b>Protective effects of sevoflurane in VILI</b>	Antonio Romero
12:10 – 12:20	<b>Exhaled breath analysis for the diagnosis of pneumonia.</b>	Pouline van Oort
12:20 – 12:40	<b>Diagnosis of ARDS by exhaled breath analysis</b>	Lieuwe D. Bos
12:40 – 13:00	<b>Optimizing nebulization during mechanical ventilation</b>	Paolo Pelosi
13:00 – 13:20	<b>Impedance Tomography to optimize ventilation</b>	Federico Gordo
13:20 – 13:30	Discussion	
13:30 – 14:30	Lunch	
14:30 – 17:30	<b>'Non-air' compartments in ARDS</b>	<b>Moderator: Antonio Artigas</b>
14:30 – 14:40	<b>The effects of body temperature on ventilation parameters</b>	Matt Harmon
14:40 – 15:00	<b>Clinical applications of esophageal pressure</b>	Jordi Mancebo
15:00 – 15:10	<b>Prone positioning–induced driving pressure changes predict outcome in ARDS</b>	David van Meenen
15:10 – 15:30	<b>Heart-lung interactions from a lung's perspective</b>	Fernando Suarez-Sipmann
15:30 – 15:50	<b>Monitoring recruitment maneuvers at bedside</b>	Javier García
15:50 – 16:00	<b>Quantitative analysis of lung images</b>	Lorenzo Ball
16:00 – 16:10	Discussion	
16:10 – 16:20	Coffee break	
16:20 -18:00	<b>Traslational research in ARDS</b>	<b>Moderator: Marcus Schultz</b>
16:20 – 16:40	<b>Why does red blood cell transfusion cause lung injury</b>	Nicole Juffermans
16:40-17:00	<b>New insights into the mechanisms of acute pulmonary edema</b>	Raquel Herrero
16:30 – 16:50	<b>Strategies for Optimal Lung Ventilation in ECMO for ARDS: The SOLVE ARDS Study</b>	Lorenzo del Sorbo
16:50 – 17:10	<b>Mechanical stretch modulates cell migration in the lungs</b>	Guillermo M. Albaiceta
17:10 – 17:30	<b>Lung decellularization: a methodological tool for investigating damage and repair in ALI</b>	Ramón Farré
17:30 – 18:00	Discussion.	

November 17		
09:00 – 11:00	<b>Organ remote affection in ARDS</b>	<b>Moderator: Lorenzo del Sorbo</b>
09:00 – 09:10	<b>Prevalence and clinical outcome of viral respiratory tract infections in ventilated critically ill patients</b>	Frank Van Someren-Greve
09:10 – 09:20	<b>Macrolide antibiotics and outcome in patients with ARDS</b>	Fabienne D. Simonis
09:20 - 09:40	<b>Tidal volume over end-expiratory lung volume is key for protective mechanical ventilation</b>	Giacomo Bellani
09:40-10:00	<b>Advanced uses of CO2 kinetics in cardiopulmonary monitoring</b>	Fernando Suarez Sipmann
10:00– 10:20	<b>Cognitive rehabilitation in the critically ill patient</b>	Lluís Blanch
10:20 – 10:40	<b>Models of disuse muscle atrophy: therapeutic implications in critically ill patients</b>	Esther Barreiro
10:40 – 11:00	Discussion.	
11:00 – 11:30	Coffee break	
11:30 – 13:30	<b>Monitoring ARDS</b>	<b>Moderator: Claudia Dos Santos</b>
11:30 – 11:50	<b>Spontaneous breathing during mechanical ventilation</b>	Giacomo Bellani
11:40 – 12:10	<b>Lung Protective Ventilation-State of the Art 2017</b>	Jesús Villar
12:10 – 12:30	<b>Hypercapnia in ARDS</b>	Nicolás Nin
12:30 – 12:40	<b>Risk stratification using SpO2/FIO2 ratio and PEEP at initial ARDS diagnosis and after 24 h in patients with moderate or severe ARDS</b>	Luigi Pisani
12:40 – 13:00	<b>Noninvasive ventilation in ARDS</b>	Jordi Mancebo
13:00 – 13:20	<b>The role of Angiotensin system in the development of VIDD</b>	Giacomo Bellani
13:20 – 13:30	Round discussion	
13:30 – 14:30	Lunch	
14:30 – 16:30	<b>Title: Strategies of Lung protection</b>	<b>Moderator: Nicole Juffermans</b>
14:30 – 14:50	<b>Diagnosis of ARDS and bilateral lung infiltrates</b>	Nicolás Nin
14:50 – 15:10	<b>Protective ventilation during surgery in high risk patients improves outcomes</b>	Paolo Pelosi
15:10 – 15:30	<b>Association between driving pressure and development of postoperative pulmonary complications in patients undergoing mechanical ventilation</b>	Marcus Schultz
15:30 -15:50	<b>Spontaneous breathing activity in ARDS: friend or foe</b>	Marcelo Gama de Abreu
15:45-16:00	Round discussion	
16:00 – 16:20	Coffee break	
16:20 – 18:30	<b>Cutting the edge in Acute Lung Injury</b>	<b>Moderator: Esther Barreiro</b>
16:20 – 16:40	<b>Extracorporeal CO<sub>2</sub> removal in acute exacerbations of COPD</b>	Lorenzo del Sorbo
16:40-17:00	<b>Antioxidant effect of adult adipose-derived mesenchymal stromal cells in VILI</b>	Oscar Peñuelas
17:00 – 17:10	<b>Effect of PEEP on outcome in animals with uninjured lungs: A systematic review of randomized controlled trials in animals</b>	Ana Geke Algera
17:10 – 17:30	<b>Variable ventilation: from bench to bedside</b>	Marcelo Gama de Abreu
17:30 – 17:50	<b>mRNA interference as a therapeutic approach in ALI</b>	José A. Lorente
17:50 – 18:10	<b>Opening lecture: 50 Years of ARDS: A Golden Anniversary?</b>	Jesús Villar
18:10 – 18:30	Final discussion.	