

# **E**ighth ERS Lung Science Conference

**Estoril, Portugal**  
March 26-28, 2010

**Biology of gene-environment  
interactions in the lung**

**Lung Science Conference Chair:**  
Geoff Laurent (GB)

**Scientific Programme Coordinators:**  
David Lomas (GB), William MacNee (GB)



## **Invitation**



European Respiratory  
Society

# Welcome to Estoril



Geoff Laurent



David Lomas



William MacNee

Dear Colleagues,

Dear Colleagues,

With respiratory diseases as the third leading cause of death in the western world, the ERS recognises that the key to developing new treatments and improving current therapies is to encourage scientific discovery.

The 2010 ERS Lung Science Conference will focus on biology of gene-environment interactions in the lung. This conference is part of the mission of the ERS to improve healthcare and education in respiratory medicine.

The ERS Lung Science Conference lasts 2.5 days with state of the art presentations by leading experts in clinical and basic science. The workshop format also provides considerable time for discussion in order to facilitate the free exchange of ideas. As usual we will cultivate the friendly atmosphere that makes the Lung Science Conference so special, with ample time for discussion and presentations from all participants.

We look forward to seeing you at the Eighth Annual ERS Lung Science Conference, where you can expect outstanding science, new friendships and a renewed impetus and enthusiasm for research in pulmonary medicine.

Geoff Laurent (GB)  
Lung Science Conference Chair

David Lomas (GB)  
Scientific Programme Coordinator

William MacNee (GB)  
Scientific Programme Coordinator

# *Aims and Topics*

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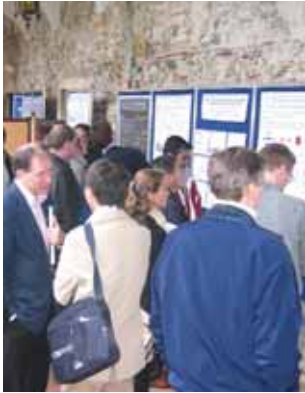
## **Aims of the meeting**

To present the most up-to-date advances in basic cellular processes common to many respiratory diseases, including lung cancer, COPD, asthma, acute lung injury, pulmonary hypertension and pulmonary fibrosis, and to explore ways to translate these advances into clinical solutions.

## **Topics**

- ❖ Environment and lung disease
- ❖ Smoking-related lung disease
- ❖ Lung injury
- ❖ Allergic lung disease
- ❖ Lung development and infection
- ❖ Cystic fibrosis

The success of the yearly ERS Lung Science Conference depends on the creation of the right dialogue between young European post-doctoral scientists and established investigators. Participant numbers will be limited to 150 and a selection process used to ensure that the very best are chosen in order to maintain the very highest quality of research.



## **Bursaries**

Bursaries covering full attendance fees are available for up to 40 participants under the age of 36 years. Potential applicants should submit an abstract in order to be considered for a bursary. Clinical and non-clinical scientists are encouraged to apply, as are non-doctoral participants. In all instances, applicants must demonstrate a keen interest in lung science research as part of their future career.

Unique to the ERS Lung Science Conference, each bursar will be appointed with a mentor, a senior member of the ERS with whom they can discuss both scientific and career questions.

## **Committee**

Elisabeth Bel (NL)  
Pieter Hiemstra (NL)  
Geoff Laurent (UK)  
William MacNee (UK)  
Laurent Nicod (CH)  
Monica Spiteri (UK)

# Conference Programme

Friday,  
March 26,  
2010



## ❖ Opening Session

### Introduction

Geoff Laurent (London, GB)

### Plenary Lecture: Gene environment interactions; the model of antitrypsin deficiency

David Lomas (Cambridge, GB)

## ❖ Session I: Environment and lung disease

### Genes, environment and lung

Juha Kere (Huddinge, SE)

### The genetic basis of environmental lung disease

Steven Kleberger (Baltimore, USA)

## ❖ Session II: Smoking-related lung disease

### Epigenetics and smoking in the development of lung cancer

Stephen Belinsky (Albuquerque, USA)

### Gene expression in smoking related lung disease

Avrum Spira (Boston, USA)

## ❖ Session III: Pulmonary alveolar proteinosis and infection

### Pulmonary alveolar proteinosis

Bruce Trapnell (Cincinnati, USA)

### Hyper IgE syndrome and pulmonary infection

Bodo Grimbacher (London, GB)

## ❖ Poster discussion Session

*Reception, followed by the Evening Pre-Dinner Talk & Dinner*

## ❖ Evening Pre-Dinner Talk

Getting scientists and physicians to talk to each other

Geoff Laurent (London, GB)

# Conference Programme

Saturday,  
March 27,  
2010



- ❖ **Session IV: Allergic lung disease**  
Genes, mechanisms and new therapies for asthma  
William Cookson (London, GB)  
Innate immunity and the development of atopy  
Torben Sigsgaard (Aarhus, DK)  
Genetics of childhood versus adult asthma: common and unique factors  
Michael Kabesch (Hanover, DE)
- ❖ **Young Investigator Award Session**
- ❖ **Mentorship lunch for bursary recipients and their mentees**
- ❖ **Social event**

Sunday,  
March 28,  
2010

- ❖ **Session V: Lung injury**  
Inflammatory mechanisms in acute lung injury  
Joe Garcia (Chicago, USA)  
Genetics and biological pathways in interstitial lung  
David Schwartz (Denver, USA)
- ❖ **Session VI: Cystic fibrosis**  
Targeting CFTR as a therapy for cystic fibrosis  
Margarida Amaral (Lisbon, PT)  
Genetic modifiers of infection and inflammation in cystic fibrosis  
Chris Karp (Cincinnati, USA )
- ❖ **Awards Ceremony and conclusion**  
Geoff Laurent (London, GB)
- ❖ **Lunch & Departure**

For more information,  
please visit our website  
at [www.ersnet.org](http://www.ersnet.org)

# Information

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## Official Language

English

## General Information

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E-mail: [info@ersnet.org](mailto:info@ersnet.org)  
[www.ersnet.org/lsc](http://www.ersnet.org/lsc)

## Registration and Accommodation

Registration for the Lung Science Conference will open in autumn 2009. Please visit the ERS website at [www.ersnet.org/lsc](http://www.ersnet.org/lsc) for further details on registration and accommodation.

## Estoril, your host city

West of Lisbon, where the Tagus estuary opens into the ocean, lies the Costa do Estoril, the “Portuguese Riviera”. Close enough to the capital to be easily accessible, the towns of Estoril and Cascais boast all the facilities the modern traveller could wish for, in a beautiful natural setting.

The Casino do Estoril, inspiration for the James Bond novel *Casino Royale*, offers an extraordinary range of games and entertainment, while for those whose tastes run more to outdoor pursuits, the Sintra-Cascais Natural Park and the south-facing Atlantic beaches are perfect. There are also the numerous magnificent golf courses for which Portugal is world renowned.

With its long tradition of hospitality, the Costa do Estoril is home to some of Portugal's best hotels and a superb congress centre. Furthermore, no visit to this part of the world would be complete without sampling the local restaurants, which are celebrated for their freshly caught, beautifully prepared seafood.



[www.ersnet.org/lsc](http://www.ersnet.org/lsc)