

Cardiovascular Pathology in Respiratory Diseases
Rome (Italy), November 14-15, 2003

Organized by
CATTEDRA E SCUOLA DI SPECIALIZZAZIONE
IN MALATTIE DELL'APPARATO RESPIRATORIO
UNIVERSITÀ DEGLI STUDI DI ROMA "TOR VERGATA"

FONDAZIONE INTERNAZIONALE MENARINI

Centro Congressi Hotel Sheraton Roma
Viale del Pattinaggio, 100

Friday, November 14, 2003 - Morning

Lecture

Presidents

C. Saltini (Rome, I), **R. Perrone Donnorso** (Rome, I)

09.00 **R. Lauro** (Rome, I)
Biology of cardiovascular disease

Session I: Vascular abnormalities in pulmonary disease I

Chairmen: **G. Girbino** (Messina, I)
E. Pozzi (Pavia, I)

09.30 **R.M. du Bois** (London, UK)
Idiopathic pulmonary fibrosis and scleroderma

09.50 **G. Ciappi** (Rome, I)
COPD

10.10 **T.C. Mineo** (Rome, I)
Emphysema: the surgeons view

10.30 *Discussants:*
C.M. Sanguinetti (Rome, I)
F. Mannino (Rome, I)
V. Cardaci (Rome, I)

11.00 Coffee break

Session II: Repair abnormalities and cellular proliferation

Chairmen: **N. Crimi** (Catania, I)
E. Gramiccioni (Bari, I)

11.30 **G.J. Laurent** (London, UK)
The molecular basis of idiopathic pulmonary fibrosis

11.50 **A. Gabrielli** (Ancona, I)
Role of oxidants in fibroblast activation in scleroderma

- 12.10 **J. Moss** (Bethesda, MD-USA)
Molecular characterization of the abnormal neoplastic cells
in lymphangioleiomyomatosis (LAM)
- 12.30 **M. Chilosi** (Verona, I)
Altered cellular proliferation in UIP
- 12.50 *Discussants:*
C. Albera (Turin, I)
A. Ricci (Rome, I)
P. Rogliani (Rome, I)
A. Leone (Rome, I)
- 13.30 Lunch

Friday, November 14, 2003 - Afternoon

Session III: Vascular abnormalities in pulmonary disease II

- Chairmen: **F. Fedele** (Rome, I)
F. Pasqua (Velletri, RM-I)
- 15.00 **M. Pistolesi** (Florence, I)
Thromboembolic disease
- 15.20 **A. Braghiroli** (Veruno, NO-I)
Sleep apnea
- 15.40 **N. Petrosillo** (Rome, I)
Vascular abnormalities in pulmonary disease among HIV infected/AIDS patients
- 16.00 Coffee break
- 16.30 *Discussants:*
G. Sergiacomi (Rome, I)
D. Parola (Rome, I)
G. Raimondi (Rome, I)

Lecture

Presidents

- F. Romeo** (Rome, I), **G. Ippolito** (Rome, I)
- 17.00 **M. Galli** (Milan, I)
Dyslipidemia and vascular disease in AIDS

Saturday, November 15, 2003 - Morning

Session IV: Pulmonary hypertension: from the genes to the bedside

- Chairmen: **C. Giuntini** (Pisa, I)
P. Rottoli (Siena, I)
- 09.00 **M. Humbert** (Paris, F)

- Genetics of familial pulmonary hypertension
- 09.20 **R. Naeije** (Brussels, B)
Pathobiology of pulmonary arterial hypertension
- 09.40 **L. Maroteaux** (Strasbourg, F)
Role of serotonin 5-HT_{2B} receptors in hypoxia-induced pulmonary hypertension
- 10.00 **N.F. Voelkel** (Denver, CO-USA)
Dysregulated growth of plexiform lesion cells in severe pulmonary hypertension
- 10.20 *Discussants:*
M. Luisetti (Pavia, I)
S.A. Harari (Milan, I)
G. Paone (Rome, I)
P. Graziano (Rome, I)
- 11.00 Coffee break

Session V: Emphysema and pulmonary hypertension

- Chairmen: **L. Allegra** (Milan, I)
S. Mattioli (Bologna, I)
- 11.30 **M. Miniati** (Pisa, I)
Structure and function in emphysema
- 11.50 **C.D. Vizza** (Rome, I)
Pulmonary hypertension in cystic fibrosis and COPD
- 12.10 **E. Bossone** (Milan, I; Ann Arbor, MI-USA)
Detection of latent pulmonary hypertension: the role of exercise Doppler echocardiography
- 12.30 *Discussants:*
P. Palange (Rome, I)
G. Schmid (Rome, I)
P. Vitulo (Pavia, I)

Lecture

Presidents

L. Chiariello (Rome, I), **G. Puglisi** (Rome, I)

- 13.00 **N. Galiè** (Bologna, I)
New trends in pulmonary arterial hypertension treatment
- 13.30 Lunch

Two among chronic degenerative disorders affecting the interstitium and the vasculature of the lung have been the object of the most intense pathological, genetic, immunological, pulmonary and cardiovascular physiology and clinical investigations. The nature and mechanism of idiopathic pulmonary fibrosis and primitive pulmonary hypertension, two of the direst lung interstitial and vascular disorders, have remained elusive thereby preventing the design of specific medications that could ameliorate their course and their prognosis. Over the past few years however, considerable advances have been made in the understanding of the fundamental lesions

characterizing idiopathic pulmonary fibrosis and of the genetics and basic mechanisms of primary pulmonary hypertension, two of the direst lung interstitial and vascular disorders.

Strikingly, alterations of the regulation of mesenchymal cell proliferation appear to be central in the pathogenesis of both diseases, seemingly leading to a quasi-neoplastic growth of fibroblasts and smooth muscle cells in the vasculature and the interstitium of the lung, suggesting that these disorders are sustained by quasi-neoplastic metabolic abnormalities. Based upon better understanding of mechanisms drugs are being designed to correct the altered metabolic processes of disease and patients may finally benefit from new clinical treatments.

The aim of the symposium is to provide a "from the bench to bedside" update in the cardiovascular disorders of the lung, including pulmonary hypertension, emphysema and interstitial lung disorders secondarily affecting the pulmonary vasculature, from basic research to clinical care. As vascular and interstitial disorders of the lung are complex disorders whose diagnosis and care require the work of dedicated multidisciplinary teams including the pulmonologist, the cardiologist, the radiologist, the surgeon, the histopathologist, the molecular biologist and the geneticist, a multidisciplinary faculty has been selected which might thoroughly present a spectrum of basic research views and discuss clinical approaches. Presentations will cover primarily basic disease mechanisms of both primary and secondary pulmonary hypertension, contrasting them with state of the art presentations on chronic inflammatory and degenerative disorders of the lung such as pulmonary fibrosis, collagen vascular diseases, thromboembolism, emphysema and COPD.

In the context of the roman tradition of collaboration and academic exchange between Pulmonologists and Cardiologists, this symposium, jointly organized by the Cattedra of Malattie Respiratorie, University of Roma Tor Vergata and by the Fondazione Menarini, is intended to expose the attendees to a multidisciplinary lively exchange by bringing together laboratory and clinical Pulmonologists and Cardiologists from academic, research and hospital institutions.

*Prof. Cesare Saltini
President of the Meeting*

Under the Auspices of

Associazione Italiana Pneumologi Ospedalieri (AIPO)
Società Italiana di Medicina Respiratoria (SIMeR)

President of the Meeting

Cesare Saltini

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Rome (Italy)

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