



Università degli Studi
di Messina



Accademia Peloritana
dei Pericolanti

LUNG RESEARCH SEMINARS OF THE ACCADEMIA PELORITANA DEI PERICOLANTI 1ST EDITION



Friday, the 23rd of October 2020

Webinar: www.gotomeeting.com

Free registration in advance by e-mailing info@samacongressi.it is mandatory to participate to the webinar

Web streaming: www.accademiapeloritana.it

INTRODUCTION

Good studies of translational medicine are mandatory to reach a better understanding, at the molecular level, of the pathogenesis of lung diseases. We still have a significant unmet needs in the pathogenesis and pharmacological personalised treatment of difficult-to-control asthma, chronic obstructive pulmonary disease (COPD), bronchiectasis, acute respiratory distress syndrome (ARDS, including COVID-19), idiopathic pulmonary fibrosis (IPF) and idiopathic pulmonary arterial hypertension (IPAH). Collectively these lung diseases represent a major cause of morbidity and/or mortality worldwide. In addition there are molecular links, still largely under investigated, between COPD, lung cancer and IPF all smoking-related disease but with different clinical-pathological expressions. It is particularly relevant that In a large longitudinal study of asymptomatic patients with mild-to-moderate COPD, ~33% of subjects died of lung cancer over ~15 years suggesting that lung cancer is a leading cause of morbidity and mortality in COPD patients. These patients share a common environmental risk factor (smoking) and a genetic predisposition represented by the incidence of these diseases in only a fraction of smokers. COPD is also a major independent risk factor for lung carcinoma, among smokers. Sepsis is a major cause of ARDS and this deadly disease can be considered another orphan disease due to the paucity of studies on its pathogenesis. IPAH is an uncommon lethal disease and we need to develop better drugs to modify its natural history.

For all these reasons the aim of this seminar is to gather together Italian and International experts in the field of these lung diseases to discuss in depth the cutting edge translational medicine research performed in these different diseases and to coordinate global research network efforts to promote a better knowledge in their pathogenesis and to obtain new targets for rationale drug development.

SCIENTIFIC PROGRAM

14.45 - 15.00 **Registration of participants**

15.00 - 15.30 **Opening speech by the Local Academic Authorities**

Salvatore Cuzzocrea, Francesco Trimarchi, Sergio Baldari

LECTURES

Chairs: *Gaetano Caramori, Francesco Trimarchi*

15.30 - 16.00 **Epigenetic regulation of inflammation**

Ian M. Adcock

16.00 - 16.30 **Lung organoids**

Reinoud Gosens

16.30 - 17.00 **Lung cryobiopsy and ILDs research**

Micaela Romagnoli

17.00 - 18.00 **General debate on the topics discussed and
Conclusions by the Chairs**

Discussant: *Francesco Nucera*

ORGANISER

Gaetano Caramori

*Pneumologia, Dipartimento BIOMORF
Università di Messina*

SCIENTIFIC COORDINATORS

Paolo Ruggeri and Francesco Nucera

*Pneumologia, Dipartimento BIOMORF
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FACULTY

Ian M. Adcock, London, UK

Sergio Baldari, Messina, Italy

Gaetano Caramori, Messina, Italy

Salvatore Cuzzocrea, Messina, Italy

Reinoud Gosens, Groningen, Netherlands

Micaela Romagnoli, Treviso, Italy

Francesco Nucera, Messina, Italy

Paolo Ruggeri, Messina, Italy

Francesco Trimarchi, Messina, Italy

GENERAL INFORMATION

This meeting is part of the teaching activities of the students of the International PhD Translational Molecular Medicine and Surgery of the University of Messina, Italy and of the residents of the specialisation schools of the University of Messina, Italy

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Accademia Peloritana dei Pericolanti

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