



Chronic Obstructive Pulmonary Diseases

Guest Editor:

Prof. Patrizia Russo

1. Department of Human Sciences and Quality, Life Promotion San Raffaele University, Via di Val Cannuta 247, 00166 Rome, Italy 2. MEBIC Consortium, San Raffaele University, 00166 Rome, Italy

Deadline for manuscript submissions:

closed (31 July 2021)

Message from the Guest Editor

COPD causes chronic airflow limitation, breathlessness, exercise intolerance, cough, difficulty with daily activities, infections, acute exacerbations (AECOPD) and (re)hospitalization. COPD is a multisystem disease with effects beyond the lung that are associated with prognosis and mortality. COPD is characterized by a complex GxG/GxE interactions not yet completely understood. Many genes are associated with COPD genesis and development and therapy. Genetic variants (SNPs) are associated with COPD susceptibility, severity airway hyperactivity, FEV₁, and therapeutic response. Cellular senescence is implicated in COPD pathogenesis; thus lung senescent cells release senescence-associated secretory phenotype (SASP) factors. Viral and bacterial infections of the respiratory system are a major cause of COPD exacerbations, leading increased local and systemic inflammation.

In this Special Issue, studies using animal or cell culture models to investigate molecular mechanisms of COPD will be published. This Special Issue will also cover reports on patients, providing novel mechanistic insights into the underlying pathogenesis or new aspects that may impact therapy.





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Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

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