

Special Issue

Chronic Obstructive Pulmonary Diseases

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.

Guest Editor

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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