

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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