

Special Issue

Molecular Research on Lung, Microbiome and Pulmonary Diseases

Message from the Guest Editor

Diseases of the respiratory system are among some of the most common medical conditions. Pulmonary pathology includes a large spectrum of both neoplastic and non-neoplastic diseases (i.e., COPD) that affect the lung. Pulmonary pathology studies the changes in the lung tissues and the mechanisms through which these occur. Although, initially, the lung was considered sterile, actually, the existence of a healthy lung microbiome is usually accepted, and changes are reported in COPD and in its exacerbation. The lung is the main affected organ in severe coronavirus disease 2019 (COVID-19) caused by the novel coronavirus SARS-CoV-2, and lung damage is the leading cause of death in the vast majority of patients. Post-mortem examinations of COVID-19 patients revealed diffuse alveolar damage with severe capillary congestion, microthrombosis, and thrombosis of small to mid-sized arteries as well as pulmonary thromboembolism, suggesting vascular dysfunction. We invite contributors to publish their research on microbe-related lung diseases molecular biology, the molecular basis of pathogenicity, latent infection, immune evasion strategies, and the development of vaccines.

Guest Editor

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