

## Special Issue

# Novel Insights into Molecular Mechanisms of Pulmonary Pathology

### Message from the Guest Editor

The pulmonary system comprises one of the most vital systems in the human body, playing a crucial role in gas exchange and mucosal barrier integrity. Diseases such as pneumonia, chronic obstructive pulmonary disease (COPD), idiopathic pulmonary fibrosis (IPF), asthma, pulmonary fibrosis, and, most importantly, lung cancer can lead to significantly compromised lung function, a shortened lifespan. These diseases stem from various causes, including acute or chronic infections (bacterial, viral, and fungal), exposure to environmental pollutants (such as tobacco smoke, occupational exposures, and air pollution), genetic predispositions, and immune system dysfunctions. The underlying mechanisms of these pulmonary diseases often involve an intricate interplay between genetic, epigenetic, and environmental factors. A comprehensive understanding of the molecular mechanisms of pulmonary pathology is crucial for improving the clinical detection of and developing therapeutic interventions for pulmonary diseases. Join us in advancing the field by shedding light on the molecular intricacies of pulmonary diseases in this Special Issue.

### Guest Editor

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### Message from the Editor-in-Chief

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