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Recent Advances in Epithelial Cells in Human Lung Disease

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Message from the Guest Editors

Dear Colleagues,

Diverse cells of the airway epithelium play critical roles in response to injury, host defense, and the maintenance of homeostasis in the lung. When compromised, they also significantly contribute to human lung disease. Advances in cell biology over the last decade have yielded human in vitro research platforms derived from airway cells, and the epigenetic profiling of these models has the potential to discover key factors that regulate gene expression alterations in lung disease.

Characterizing the role and function of existing and newly discovered epithelial cell populations is essential in order to provide clues to disease pathogenesis and treatment discovery.

This Special Issue aims to expand our understanding of complex molecular pathways within the airway epithelium in the pathophysiology of pulmonary diseases such as cystic fibrosis, pulmonary fibrosis, chronic obstructive pulmonary disease, and COVID-19 using personalized disease models and omics technology, as well as explore insights into novel therapeutics and drug delivery strategies.

Dr. Irene Oglesby
Dr. Chiara De Santi
Guest Editors



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Special Issue



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Message from the Editor-in-Chief

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