Special Issue

Biomarkers in Lung Diseases: From Pathogenesis to Prediction of New Therapies

Message from the Guest Editors

Several pathologies affect the lungs and airways, including inflammation, infection and fibrosis. Alteration of angiogenesis, coagulation, fibrogenesis and tissue repair, as well as epithelial damage, matrix remodelling and oxidative stress, are implicated in several lung diseases' pathogenesis. Biomarkers are measurable indicators that can evaluate pathological biological processes, and they can be categorised by the following major mechanistic pathways: (1) alveolar epithelial cell damage; (2) aberrant fibrogenesis, fibroproliferation and matrix remodelling; (3) immune dysregulation; (4) vascular and endothelial damage; and (5) morphological biomarkers including chest CT scan and genetics. In the era of personalized medicine, it is important to be able to phenotype the disease and to define biomarkers able to elucidate the pathogenesis and to provide new target therapies. For further information, please visit the Special Issue website.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Over the last decade, the amount of information pertaining to thoracic structures has been unprecedented. The thorax is unique in terms of the different structures that involve the respiratory system—lungs, pleura, upper and lower respiratory tract—all located in the mediastinum that by itself represents a different compartment with its own wealth of conditions, and that also includes the Thymic gland. Therefore, we believe that the availability of a new open access journal, *JoR*, dedicated to highlighting and disseminating information related to the respiratory system is not only timely but is also absolutely necessary. As we can see, the information related to the respiratory systems is vast and there could not be anything more and better than to have a journal that is dedicated to the promotion, dissemination, and efficient publication of timely articles on the respiratory system including all its structures.

Editor-in-Chief

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