

Special Issue

Immune Regulation in Lung Diseases

Message from the Guest Editors

The lung is constantly exposed to a plethora of threats, which can induce infection, inflammation or tissue injury, paving the way for the establishment of lung diseases, such as idiopathic pulmonary fibrosis (IPF), chronic obstructive pulmonary disease (COPD), asthma and, even worse, cancer. Under physiological conditions, the airways are protected against pathogens and irritants by innate and adaptive immunity cells, which in association with structural cells orchestrate lung immunity to minimize lung disease and ensure a balanced response, thus avoiding excessive inflammatory reactions and subsequent lung tissue damage. Thus, the key role of immune regulation in either the resolution or establishment of lung disease appears clear. In this context, a better understanding of the complexity and dynamicity of the lung immune system, especially through multi-omics and computational approaches, is pivotal in order to determine how respiratory immunity interacts with other complex networks in pathological conditions and to provide a basis for the selection of novel therapeutic strategies against lung diseases.

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