

Special Issue

Role of Immune and Inflammatory Cells in Pulmonary Diseases

Message from the Guest Editor

Pulmonary fibrosis (PF), particularly idiopathic pulmonary fibrosis (IPF), is a progressive and fatal lung disease characterized by excessive extracellular matrix (ECM) deposition, which leads to scarring and impaired lung function. Immune and inflammatory cells play a pivotal role in the pathogenesis of PF, driving both injury and repair processes. We welcome research and review articles that address, but are not limited to, the following topics: Immune and Inflammatory Cells in Pulmonary Fibrosis: Macrophages, T cells, neutrophils, eosinophils, fibroblasts, and myofibroblasts; Immunology of Lung Mucosa in Pulmonary Fibrosis: Innate lymphoid cells (ILCs), tissue-resident memory T cells (TRMs), and alveolar epithelial cells (AECs); Cellular Therapy Using Immune Cells in Pulmonary Fibrosis: Mesenchymal stem cells (MSCs), regulatory T cells (Tregs), and macrophage reprogramming; Precision Medicine in Pulmonary Fibrosis: Integration of scRNA-seq and spatial transcriptomic data; Cellular Engineering in Pulmonary Fibrosis: Engineered immune cells, such as CAR-T cells targeting fibrotic pathways.

Guest Editor

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