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

Dr. Remo C. Russo

Laboratory of Pulmonary Immunology and Mechanics, Department of Physiology and Biophysics, Institute of Biological Sciences, Universidade Federal de Minas Gerais, Belo Horizonte 31270-901, Brazil

Deadline for manuscript submissions

30 December 2025



International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed



mdpi.com/si/235336

International Journal of Molecular Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 ijms@mdpi.com

mdpi.com/journal/ ijms





International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed





Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

