

Special Issue

Lung Disease: From Molecular Mechanism to Therapeutic Opportunities

Message from the Guest Editor

New techniques, including single-cell RNA sequencing, proteomics, and pathway analysis, have allowed for an improved understanding of a broad array of pulmonary diseases, including their molecular mechanisms at both the tissue and cellular levels and cellular crosstalk. New disease pathways and novel biomarkers have been identified, which can be used for diagnosis, to follow the course of disease, to determine prognosis, and to be used as targets in the design of novel therapeutic agents. Due to the rapidly expanding findings from research, periodic updates are necessary to review novel findings, provide context, discuss new therapeutics, and develop a focus for future research endeavors. This Special Issue will highlight advances in the pathophysiologic mechanisms of individual lung diseases and the novel therapeutics being examined to treat these diseases. It also aims to outline future research directions with a focus on important unanswered questions.

Guest Editor

Dr. Patrick G. Arndt

Division of Pulmonary, Allergy, Critical Care and Sleep Medicine,
Minneapolis, United States Department of Medicine, University of
Minnesota, Minneapolis, MN 55455, USA

Deadline for manuscript submissions

31 January 2026



Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/244519

Biomolecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biomolecules@mdpi.com

[mdpi.com/journal/
biomolecules](https://mdpi.com/journal/biomolecules)





Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed



[mdpi.com/journal/
biomolecules](https://mdpi.com/journal/biomolecules)



About the Journal

Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

Editors-in-Chief

Prof. Dr. Peter E. Nielsen

Department of Cellular and Molecular Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, Blegdamsvej 3C, DK-2200 Copenhagen, Denmark

Prof. Dr. Lukasz Kurgan

Department of Computer Science, Virginia Commonwealth University, Richmond, VA 23284, USA

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, MEDLINE, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

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