

Special Issue

Molecular Insights into Bronchiolitis Obliterans

Message from the Guest Editors

We welcome innovative experimental research exploring the molecular mechanisms and pathogenesis of bronchiolitis obliterans (BO), a chronic, irreversible lung disease characterized by severe obstruction and obliteration of the small airways. BO manifests in two entities: either after pulmonary infections or following allogeneic hematopoietic stem cell transplantation. Although distinct, PiBO and BOS share histopathological features and developmental similarities. The mechanisms driving BO remain largely unclear, and effective therapies are lacking.

This Special Issue aims to improve the understanding of lung tissue injury in BO, emphasizing in vitro and in vivo models that elucidate inflammation, fibrosis, and bronchiolar remodelling. We encourage studies providing insights into novel therapeutic approaches to improve clinical outcomes. Key focus areas include comprehensive molecular analyses such as RNA sequencing and proteomics for detailed transcriptomic and proteomic profiling of patient samples. Additionally, research on epigenetic regulation, particularly the roles of microRNAs and non-coding RNAs in modulating BO pathogenesis, is of significant interest.

Guest Editors

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Deadline for manuscript submissions

15 September 2026



Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/252671

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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.

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