

Special Issue

Bronchopulmonary Dysplasia: Challenges and Advances

Message from the Guest Editor

Bronchopulmonary dysplasia (BPD) is the most common chronic lung disease in infants. This condition occurs in preterm neonates with immature lungs due to genetic-environmental interactions. The environmental factors that contribute to the etiopathogenesis of BPD include exposure of the immature lung to sepsis (can be antenatal, i.e., chorioamnionitis, or postnatal, which can be locally in the lung or systemic), hyperoxia, and invasive ventilation, among other factors (e.g., for fluid and nutritional factors). There are several challenges to the diagnosis of BPD. In addition, understanding the pathogenesis, pathology, clinical dilemmas, management strategies, complications, and pulmonary and neurodevelopmental outcomes are still being investigated and optimized. We invite clinical/translational original research manuscripts as well as review articles addressing the specific areas about BPD. Manuscripts discussing the controversies in the diagnostic criteria, utility of biomarkers, therapeutic approaches, complications, and long-term issues post-NICU discharge are a few of the areas that will be considered appropriate for this Special Issue.

Guest Editor

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Deadline for manuscript submissions

closed (1 April 2025)



Children

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Impact Factor 2.6
CiteScore 4.5
Indexed in PubMed



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Message from the Editor-in-Chief

You are invited to contribute a research article or comprehensive review for consideration and publication in *Children* (ISSN 2227-9067). *Children* is an open access journal—research articles, reviews, and other content are published online immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. The journal focuses on sharing clinical, epidemiological, and translational science relevant to children's health. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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