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Bronchopulmonary Dysplasia: Challenges and Advances

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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.



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Special Issue



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Message from the Editor-in-Chief

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