



Advanced Research in Cardiopulmonary Injury

Guest Editor:

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Message from the Guest Editor

Cardiopulmonary disease refers to a range of severe conditions affecting the heart and lungs. Epidemiological studies have revealed that many environmental and maternal factors and fetal factors interact during fetal development. As a result of these risk factors, maternal–fetal morbidity and developmental plasticity are altered, and cardiopulmonary injury and repair processes in the fetus and newborn infant lead to adult-onset systemic pulmonary or cardiovascular conditions. During the development and morphogenesis of cardiopulmonary tissues, the molecular mechanisms involved rely on genetics and epigenetics and signaling crosstalk in regulating cell survival, growth, proliferative activity, and differentiation. Pathological phenotypes can result from the abnormal regulation of any of these processes.

This Special Issue of the *International Journal of Molecular Sciences* focuses on the field of cardiopulmonary injury, and welcomes both original research articles and review papers that deal with the molecular mechanisms linking to developmental cardiopulmonary disease, as well as potential therapeutic interventions for cardiopulmonary growth/developmental disorder.





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Message from the Editor-in-Chief

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