

Special Issue

New Advances in Congenital Disorders—From Molecular Basis

Message from the Guest Editors

Congenital disorders, also known as birth defects, can contribute to long-term disability, having profound impacts on patients, families, healthcare systems, and society. According to the World Health Organization, 240,000 newborns die every year within 28 days after birth, representing a considerable public health burden. Congenital disorders may be caused by genetic, nutritional, environmental, or infectious factors, but their etiology remains to be fully understood. Inevitably, the high heterogeneity of and unclear pathomolecular mechanisms beyond these genetic disorders give rise to a complex and challenging patient journey until a final diagnosis is achieved. Noteworthy, in recent years the advances in multi-omics techniques and high-throughput methodologies contributed to increasing data generation, paving the way for the successful development of novel biomarkers, the discovery of new diagnosis methods, and novel targeted therapies. The main goal of this Special Issue is to bring together new research by collecting original articles and reviews that provide novel insights related to genetics, diagnosis, biomarkers, mechanisms, and therapeutics related to birth defects.

Guest Editors

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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