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New Advances in Congenital Disorders—From Molecular Basis

Guest Editors:

Dr. Joana Poejo

Congenital Disorders of
Glycosylation & Allies—
Professionals and Patient
Associations International
Network (CDG & Allies-PPAIN),
Department of Life Sciences,
School of Science and
Technology, NOVA University
Lisbon, 2819-516 Caparica,
Portugal

Dr. Erwin Brosens

Department of Clinical Genetics,
Erasmus MC Rotterdam, 3000 CA
Rotterdam, The Netherlands

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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.



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Special Issue



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Editor-in-Chief

Prof. Dr. José L. Quiles

Department of Physiology,
Institute of Nutrition and Food
Technology “Jose Mataix”,
Biomedical Research Center,
University of Granada, Avda.
Conocimiento s/n, 18100 Armilla,
Granada, Spain

Message from the Editor-in-Chief

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*International Journal of Molecular
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MDPI, Grosspeteranlage 5
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