

## Special Issue

# Molecular Insights into the Developmental Origins of Health and Disease

### Message from the Guest Editors

Fetal development and infancy are characterized by the rapid growth, development, and maturation of organ systems. It has now become increasingly evident that several pathophysiological conditions, including diabetes and cardiovascular disease, that occur in adolescence and adulthood may have their origins during fetal or postnatal development. This Special Issue will bring together global experts in the field of developmental and molecular programming to provide an overview of as well as recent advances in the understanding of the long-term consequences of the programming of gene expression and the modification of the molecular biology of organ systems during fetal and postnatal development. Since nutritional exposure during fetal development can also be transmitted to further generations, the impact of heritable epigenetic modifications on nutritional programming and increased risk for disease in postnatal life will be described. Furthermore, the molecular aspects of normal fetal nutrition, growth, and development through efficient maternal nutrition before and during pregnancy will be highlighted as a novel strategy for the primary prevention of disease in later life.

### Guest Editors

Dr. Paramjit S. Tappia

Asper Clinical Research Institute, St. Boniface Hospital, Winnipeg, MB R2H 2A6, Canada

Dr. Bram Ramjiawan

1. Asper Clinical Research Institute, St. Boniface Hospital, Winnipeg, MB R2H 2A6, Canada

2. Department of Pharmacology and Therapeutics, Max Rady College of Medicine, University of Manitoba, Winnipeg, MB R3E 0T6, Canada

### Deadline for manuscript submissions

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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
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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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### Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,  
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle  
Marche, Via Ranieri 65, 60100 Ancona, Italy

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