



Cellular and Molecular Mechanisms in the Developmental Origins of Health and Disease

Guest Editors:

Dr. Jean Pierre Segain

Nantes Université - INRAe, UMR
1280 Physiopathologies des
Adaptations Nutritionnelle, IMAD,
CRNHO, CHU-Hôtel Dieu, Place
Alexis Ricordeau, F-44093 Nantes,
France

Dr. Gwénola Le Dréan

Nantes Université - INRAe, UMR
1280 Physiopathologies des
Adaptations Nutritionnelle,
Institut des Maladies de
l'Appareil Digestif, CHU-Hôtel
Dieu, Place Alexis Ricordeau, F-
44093 Nantes, France

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Message from the Guest Editors

Dear Colleagues,

The DOHaD concept suggests that the developmental plasticity of organisms allows them to mount adaptive responses to environmental cues, involving epigenetic regulation of gene expression in differentiating tissues. Epigenetic modifications, including DNA methylation, post-transcriptional modifications of histone, and noncoding RNAs, can permanently affect organ structure and function, resulting in the dysfunction of many systems, such as the metabolic, endocrine, nervous, and immune systems. At the cellular level, the acknowledged importance of epigenetic mechanisms in stem cell biology makes germinal and adult stem cells prime targets of the DOHaD. This Special Issue will cover recent advances in research on cellular and molecular mechanisms in the DOHaD field, revealing new insights into the development of new strategies in the prevention of adult diseases.





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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

Message from the Editor-in-Chief

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