## **Special Issue**

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

Message from the Guest Editors

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.

### **Guest Editors**

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### Deadline for manuscript submissions

closed (20 December 2023)



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## **Editor-in-Chief**

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