

Special Issue

Genetic and Epigenetic Responses to the Environment: Developmental Origin of Diseases and Measures to Mitigate Their Manifestations

Message from the Guest Editors

The expression of genes and their epigenetic modifications drive development throughout the life cycle from conception to death. Successful and desirable development depends on sequential changes in the expression of these genes owing, in part, to their healthy epigenetic modifications. However, epigenetic changes resulting from adverse environments and aging also lead to the development of a variety of childhood and adult diseases and disorders. These pathological conditions reflect undesirable epigenetic landscapes and include diabetes, cardiovascular disease, cancer, Alzheimer's disease and many others in humans. This Special Issue intends to (1) review and report recent and new research findings about epigenetic changes in genes that regulate the development of humans and other organisms, including all stages of ontogeny, and (2) consider age-related and other epigenetic changes that drive manifestations of pathological conditions.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

IJERPH provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality peer-reviewed journal.

Editor-in-Chief

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