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Unraveling the Epigenetic Blueprint: Exploring DNA Methylation and Its Integration with Omics in Health and Disease

Guest Editors:

Dr. Priyadarshini Kachroo

Department of Biomedical and Health Informatics, Rutgers School of Health Professions, Rutgers, The State University of New Jersey, Newark, NJ, USA

Dr. Rinku Sharma

Channing Division of Network Medicine (CDNM), Medicine, Brigham and Women's Hospital & Harvard Medical School, Boston, MA, USA

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Message from the Guest Editors

Epigenetic mechanisms are involved in development, inheritance, and disease. Over the last decade, the field of epigenetics research has grown tremendously, accelerating our understanding of human biology and its interaction with the environment. Several groundbreaking discoveries are continuing to grow in number and scope due to their appealing potential in gene regulation, editing, aging, and preventative interventions for complex diseases.

This Special Issue welcomes original research and methodical or review articles and aims to provide an opportunity to highlight studies involving and integrating epigenetics research, including, but not limited to, data generated through techniques such as ChIP-seq, ATAC-seq, whole-genome DNA methylation such as WGBS or RRBS, EPIC arrays, RNA sequencing, single-cell RNA-seq (scRNA-seq), single-cell epigenetics/epigenomics, metabolomics, proteomics, exposomics, therapeutics, aging, growth and developmental trajectories, multiomics, spatial transcriptomics/epigenomics, and techniques elucidating the role of micro-RNAs and non-coding RNAs in epigenetic modulation.



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Prof. Dr. Felipe Fregni

1. Neuromodulation Center and
Center for Clinical Research
Learning, Spaulding
Rehabilitation Hospital and
Massachusetts General Hospital,
Harvard Medical School, Boston,
MA 02114, USA
2. Department of Epidemiology,
Harvard T.H. Chan School of
Public Health, Boston, MA 02115,
USA

Message from the Editor-in-Chief

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MDPI, Grosspeteranlage 5
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