

Special Issue

Epigenetic Modifications and Changes in Neurodegenerative Diseases

Message from the Guest Editor

The global prevalence of neurodegenerative diseases (NDs) is dramatically increasing, making the identification of biomarkers for early diagnosis crucial. Evidence suggests that epigenetic mechanisms play a key role in the pathogenesis of these disorders.

Aberrant DNA methylation, altered histone modifications, and non-coding RNA expression have been observed in the brain tissues of NDs patients, with promising peripheral blood studies. Intense research is investigating the therapeutic efficacy of epigenetic compounds. This Special Issue aims to provide an updated overview of the epigenetics of NDs and the potential applicability of epigenetic therapy. Basic research articles aimed to identify altered epigenetic mechanisms underlying these disorders, research papers dealing with the potential of therapeutic approaches targeting epigenome, as well as articles addressing the contribution of environmental or early life factors to epigenetic changes are welcome. Updated reviews and systematic reviews are also invited to be submitted. I look forward to receiving your contributions.

Guest Editor

Dr. Andrea Stocco

Medical Genetics Laboratories, Department of Translational Research and of New Surgical and Medical Technologies, University of Pisa, 56126 Pisa, Italy

Deadline for manuscript submissions

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Biology
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biology@mdpi.com

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Message from the Editorial Board

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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