

Special Issue

Epigenetics in Neurodegenerative Diseases

Message from the Guest Editors

Epigenetics—the study of the modification of gene expression that does not involve a change in the DNA sequence—has rapidly become established as a major topic in molecular biology and genetics. The two major components of epigenetics are DNA methylation and histone modifications. Additionally, microRNA (miRNAs), short molecules of RNA, are able to post-transcriptionally modulate their target mRNA and are key molecules for the normal control of gene expression. Epigenetic modifications have an important impact on human health and constitute an area of great interest for the study of several diseases, in particular multifactorial diseases. Neurodegenerative diseases are often with unknown pathogeneses. The interactions among different factors—genetics, inflammation, environmental—play a role in their development and progression. For these reasons, the present Special Issue focuses on 1) DNA methylation; 2) histone modification; and 3) miRNA expressions in neurodegenerative diseases to better understand the molecular and biological mechanisms deregulated in these pathologies.

Guest Editors

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Deadline for manuscript submissions

closed (10 August 2023)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/128830

*International Journal of
Molecular Sciences*
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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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