

Special Issue

Molecular Genetics in Neurodegenerative Disorders

Message from the Guest Editors

Between the patho-mechanisms underlying Neurodegenerative disorders (NDs) there are genetic mutations, micro- and long-RNA (miRNA and lncRNA) network alterations, glutamate excitotoxicity, redox imbalance, neuroinflammation, mitochondria dysfunction, endoplasmic reticulum stress, autophagy dysfunction and, more recently, epigenetics.

With this Special Issue we intend to collect both original contributions and review articles focused on the recent advances in: i) genetic research enlighten the new gene-specific therapeutic approaches that are now moving to the patients; ii) the investigation of mechanisms of epigenetic regulation (DNA methylation, coding and non-coding RNA, chromatin remodeling, and histone post-translational modifications); iii) the identification of biomarkers able to predict the disease progression; iv) the understanding of specific molecular mechanisms including DNA damage repair, genome instability and RNA metabolism. Keywords:

- neurodegenerative disorders
- genetics
- epigenetics
- biomarker discovery
- RNA metabolism
- DNA damage repair
- genome instability

Guest Editors

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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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