

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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