# **Special Issue**

## Molecular Genetics in Neurodegenerative Disorders: 2nd Edition

Message from the Guest Editors

Neurodegenerative disorders (NDs) are characterized by the progressive and inevitable loss of selected neuronal populations in the peripheral or central nervous system, which leads to impairments in motor, behavioral and/or cognitive function. Among the pathomechanisms underlying NDs are genetic mutations, micro- and long-RNA network alterations, glutamate excitotoxicity, redox imbalance, neuroinflammation, mitochondria dysfunction, endoplasmic reticulum stress, autophagy dysfunction and, more recently, epigenetics. However, the exact causes of most NDs are still unknown, and recent studies suggest that therapeutic options in ND management remain limited.

With this Special Issue, we focus on recent advances in: i) genetic research on new gene-specific therapeutic approaches in treating ND patients; ii) the investigation of the mechanisms of epigenetic regulation; iii) the identification of biomarkers able to predict disease progression; iv) the understanding of specific molecular mechanisms, including DNA damage repair, genome instability and RNA metabolism.

### **Guest Editors**

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#### Deadline for manuscript submissions

closed (20 November 2024)



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#### **Editor-in-Chief**

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