Special Issue

Molecular Mechanisms, Diagnosis and Therapeutics of Neurodegenerative Diseases

Message from the Guest Editor

- Neurodegenerative diseases like Alzheimer's, Parkinson's, ALS, and Huntington's are significant global health concerns, causing cognitive decline and dementia. Aging, genetics, and stress play crucial roles in these diseases, with protein misfolding and toxic aggregates contributing to their progression. Early diagnosis is vital, as it allows for timely intervention and management, improving patient outcomes.
- This Special Issue invites original research, reviews, and clinical studies on molecular mechanisms, biomarkers, and innovative therapies such as gene-based approaches, small molecule drugs, and alternative medicine. We aim to highlight recent advancements in neurodegeneration research, with a focus on improving therapeutic options and patient care. **Keywords:** Neurodegenerative diseases, aging, biomarkers, protein misfolding, molecular diagnosis, therapeutic strategies.

Guest Editor

Dr. Sarmistha Mitra

Department of New Biology, Daegu Gyeongbuk Institute of Science & Technology (DGIST), Daegu 42988, Republic of Korea

Deadline for manuscript submissions

30 December 2025

MDPI

About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Author Benefits

Open Access:
free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:
indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:
JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)