

Special Issue

Molecular Mechanisms of Alzheimer's Disease

Message from the Guest Editor

Alzheimer's disease (AD) is a progressive neurodegenerative disorder and the leading cause of dementia worldwide. Despite decades of research, the precise molecular mechanisms driving AD pathogenesis are still incomplete, presenting significant challenges for early diagnosis and defining preventative strategies and effective therapeutic interventions. This Special Issue brings together cutting-edge research exploring the diverse molecular pathways involved in AD including the impairment of proteostasis, accumulation of amyloid plaques and neurofibrillary tau tangles, cellular stress response pathways, mitochondrial dysfunction, neuroinflammation, and cognitive decline. This Special Issue features original research and review articles that deepen our understanding of these mechanisms, offering new perspectives on potential biomarkers, preventative strategies, and therapeutic strategies. We aim to advance the field and pave the way for innovative interventions targeting the molecular underpinnings of AD. We invite researchers to explore these contributions and foster new collaborations in the fight against Alzheimer's disease.

Guest Editor

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Message from the Editor-in-Chief

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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