

Special Issue

Molecular Mechanisms of Alzheimer's Disease and Brain Tolerance

Message from the Guest Editor

Alzheimer's disease (AD) is the main cause of dementia and the most prevalent brain disorder in the elderly. AD is an incurable disease with no effective disease-modifying therapies, in part because the etiopathogenesis of this devastating neurodegenerative disease remains elusive. In this sense, this Special Issue aims to gather the most recent advances in the field to provide a more comprehensive picture of the molecular basis underlying the selective neuronal degeneration and loss in AD. Furthermore, this Special Issue also intends to describe the endogenous adaptive and pro-survival mechanisms behind brain tolerance (hormesis/conditioning) as promising targets to counteract AD symptomatology and neuropathology in a timely manner.

This Special Issue welcomes the submission of original research or review articles focusing on the cellular and molecular events that contribute to the onset and progression of AD (i.e., vascular dysfunction, brain hypometabolism, mitochondrial dysfunction and oxidative stress, synaptic failure, neuroinflammation, gut dysbiosis, among others) and to brain tolerance against injury.

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.

Editor-in-Chief

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