



Oxidative Stress and Proteinopathy in Alzheimer's Disease

Guest Editor:

Dr. Chanchal Sharma

School of Life Sciences,
Kyungpook National University,
Daegu 41566, Republic of Korea

Deadline for manuscript
submissions:

30 September 2024

Message from the Guest Editor

Dear Colleagues, The multifactorial nature of Alzheimer's disease (AD) has given rise to several research debates on the early events that led to AD. Of note, interrogation of post-mortem AD brain and several neuroimaging studies has revealed accumulation and misfolding of certain proteins (prominantly amyloid beta and tau) as the important primary event playing a significant role in the initiation and progression of the disease. This is of particular relevance since this results in synaptic dysfunction and loss, leading to cognitive decline and ultimately results in neuronal cell death. An intriguing and complex relationship has been shown between A β and mitochondrial dysfunction, redox metal imbalance, failure of protein clearance mechanism, advanced glycation end-products, and calcium excitotoxicity that may further contribute to the oxidative stress in the brains of AD patients. Understanding these interactions may thus aid in the identification of potential neuroprotective therapies that could be clinically useful.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Felipe Fregni

1. Neuromodulation Center and
Center for Clinical Research
Learning, Spaulding
Rehabilitation Hospital and
Massachusetts General Hospital,
Harvard Medical School, Boston,
MA 02114, USA
2. Department of Epidemiology,
Harvard T.H. Chan School of
Public Health, Boston, MA 02115,
USA

Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

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), PubMed, PMC, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (*Pharmacology & Pharmacy*) / CiteScore - Q2 (*Medicine (miscellaneous)*)

Contact Us

Biomedicines Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/biomedicines
biomedicines@mdpi.com
[X@Biomed_MDPI](https://twitter.com/Biomed_MDPI)