Special Issue

Advanced Research in Proteinopathies

Message from the Guest Editors

Proteinopathies are a family of diseases characterized by the accumulation of specific proteins within neurons or in the brain parenchyma that lead to synaptic dysfunction and neuronal loss. Examples for proteinopathies are Alzheimer's disease, Parkinson's disease, Lewy body disease, amyotrophic lateral sclerosis and fronto-temporal lobar degeneration. Typically, in a disease condition, the unstructured proteins change their conformation leading to small oligomers that eventually aggregate into higher-order structures. Over the years, the structural and morphological features of several protein aggregate species have been investigated, as well as the cellular events that lead to neuronal dysfunction. Moreover, a number of potential therapeutic strategies have been explored, including small molecules, antibodies and natural compounds, some of them showing promising outcomes. This Special Issue welcomes the submission of original research papers and reviews on the most advanced developments in the above-mentioned topics, with special attention on possible therapeutic approaches targeting misfolded proteins.

Guest Editors

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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.

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