

Special Issue

Protein Aggregation: Molecular Mechanisms, Determinants and Therapeutic Approaches

Message from the Guest Editor

Macromolecular protein assemblies including protein aggregates, biomolecular condensates, and ordered amyloid fibril formation have been associated with various widespread diseases, spanning from major neurodegenerative disorders to certain forms of cancer. At the same time, amyloid formation has also been shown to support important biological functions starting from humans and extending to single-cell organisms. The recent efflux of structural information on amyloid architecture, combined with studies on the molecular determinants and mechanisms that promote self- and heterotypic assembly, has highlighted certain unresolved properties of protein aggregates, such as structural polymorphism and its differential association to disease, selective vulnerability of specific cell types to certain toxic aggregate species, and complex spreading patterns, while also promoting the design of novel therapeutic approaches against this group of diseases.

Guest Editor

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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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