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Protein Aggregation: Molecular Mechanisms, Determinants and Therapeutic Approaches

Guest Editor:

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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.

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Message from the Editor-in-Chief

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