Special Issue

Therapeutic Development towards Protein Misfolding Diseases

Message from the Guest Editors

Both the self-assembly and aggregation of misfolded proteins are associated with many medical disorders, including Alzheimer's, Parkinson's, type-2 diabetes and certain types of cancer diseases. The onset of aggregation of the diseased proteins is not completely understood. Despite their structural and sequential differences, various diseased proteins self-assemble to form amyloid fibrils, which are intriguingly very similar in their morphology, conformation (increased content of beta structures) and properties in terms of binding specific dyes (for example, thioflavin T and Congo red). There are various factors that influence the aggregation such proteins, including sequence of the protein, post-translational modification, the presence of molecular crowding or other biomolecules (such as lipids, glycan and proteins), in addition to the pH and temperature of the environment. Thus, it is essential to develop effective therapeutic strategies to mitigate protein aggregation and the diseases associated with this. and

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