

Special Issue

Advances in Amyloid Aggregation and Its Inhibition: Implementing Insights from Physiological Conditions

Message from the Guest Editor

Protein aggregation is linked with multiple life-worsening conditions collectively known as neurodegenerative diseases and amyloidosis. Currently there are only a few disease-modifying drugs approved, and a portion of them introduce severe side effects, suggesting the need to expand and improve further studies in the field. Initially the protein aggregation and drug screening are investigated under in vitro conditions, which provide faster and cheaper primary insights about protein misfolding. However, the in vitro results often tend to mismatch the findings in vivo—different aggregation pathways, formed fibril structures and the effects of inhibiting molecules. A corresponding difference is probable due to missing physiological conditions, including interacting molecules, molecular crowding, and ionic strength.

In this Special Issue, we will focus on protein aggregation and inhibition studies at closer physiological conditions.

Guest Editor

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