

Special Issue

Spectroscopy and Microscopy of Fibrillar Protein Aggregates

Message from the Guest Editor

Many proteins which are essential to survival show a propensity to form aggregates, which can vary from unordered macro-oligomers to filamentary fibrils. Experiments have provided a large variety of unfolded-to-aggregate kinetics of proteins, depending on environmental as well as molecular variables. However, the aggregation paths and their final states are still largely unpredictable, even for the most studied cases of the Ab class of proteins. Spectroscopy and microscopy have been widely exploited to study the unfolded-aggregate kinetics since the early time of protein discovery and handling. At present, advances in the techniques and synergy between different approaches have provided a deeper understanding of the aggregate kinetics and of the involved molecular interactions. Contributions to this Special Issue will therefore be useful to offer new insights into the mechanisms of oligomer/fibril formation, to disclose the potential of spectroscopic and microscopic techniques in this field, and to deepen our understanding of the inner molecular mechanisms.

Guest Editor

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