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Biophysics of Amyloid Aggregation

Guest Editors:

Prof. Dr. Michele Vendruscolo

Centre for Misfolding Diseases,
Yusuf Hamied Department of
Chemistry, University of
Cambridge, Cambridge CB2 1EW,
UK

Dr. Ryan Limbocker

Department of Chemistry and
Life Science, United States
Military Academy, West Point, NY
10996, USA

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Message from the Guest Editors

The amyloid state is associated with human conditions that are still incurable and becoming increasingly prevalent, such as Alzheimer's and Parkinson's diseases and type II diabetes. In these diseases, a range of peptides and proteins aberrantly convert from their soluble native states into intractable amyloid aggregates that disrupt cellular functions. To design effective therapeutics to prevent, delay or combat these devastating pathologies, it is important to further resolve the fundamental processes underpinning the aggregation reactions of specific biomolecules. In this Special Issue, we invite contributions that leverage biophysical approaches to study the fundamental biology and chemistry underlying protein aggregation in neurodegenerative diseases. All submissions that extend our knowledge of the amyloid state and its links to pathology are welcome. Examples of topics include, but are not limited to, disease models, diagnostics, drug discovery, antibody discovery, structural biology, chemical kinetics, structure-toxicity relationships, and high-resolution imaging.



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Editors-in-Chief

Prof. Dr. Jukka Finne

Research Programme in
Molecular and Integrative
Biosciences, Faculty of Biological
and Environmental Sciences,
University of Helsinki, P.O. Box
56, FI-00014 Helsinki, Finland

Prof. Dr. Andrés Moya

Integrative Systems Biology
Institute, University of Valencia
and CSIC, 46980 Valencia, Spain

Message from the Editorial Board

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Biology Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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