



## Spectroscopy and Microscopy of Fibrillar Protein Aggregates

Guest Editor:

**Prof. Dr. Alessandro Nucara**  
Department of Physics, Sapienza  
University of Rome, P.le A. Moro  
5, 00185 Rome, Italy

Deadline for manuscript  
submissions:

**closed (15 April 2023)**

### Message from the Guest Editor

Dear Colleagues,

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.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. José L. Quiles

Department of Physiology,  
Institute of Nutrition and Food  
Technology “Jose Mataix”,  
Biomedical Research Center,  
University of Granada, Avda.  
Conocimiento s/n, 18100 Armilla,  
Granada, Spain

## Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, and molecular biophysics. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

## Contact Us

---

*International Journal of Molecular  
Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/ijms  
ijms@mdpi.com  
X@IJMS\_MDPI