

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

Dr. Andrius Sakalauskas

Institute of Biotechnology, Life Sciences Center, Vilnius University, LT-10257 Vilnius, Lithuania

Deadline for manuscript submissions

31 August 2025



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/235631

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)



About the Journal

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) 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, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *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.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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)