

## Special Issue

# Advances in Tau Protein Research

### Message from the Guest Editor

Alzheimer's disease is the most common dementia, affecting over 57 million people worldwide. Neurofibrillary tangles were described over 100 years ago, but only in the 1980s were they identified as amyloid filaments of hyperphosphorylated tau. These tau filaments, with distinct ultrastructures, are key hallmarks of tauopathies. In the 1990s, mutations in the MAPT gene encoding tau were linked to frontotemporal dementia and parkinsonism, suggesting tau filament formation is sufficient to cause neurodegeneration. The idea that pathological tau spreads between cells arises from its stepwise brain deposition and experimental support for its prion-like behavior. This Special Issue aims to advance our understanding of the physiological and pathological mechanisms around tau protein, including, among others, the interactions with cellular factors, emerging therapeutic strategies, molecular mechanisms of templated seeded aggregation, and toxic functions of protein aggregates. Studies providing such information are welcomed and will help elucidate the molecular basis for designing new treatments as well as deeper understanding of protein aggregation pathologies.

### Guest Editor

Dr. Taxiarchis Katsinelos

Functional Genomics Screening Laboratory, Milner Therapeutics  
Institute, Cambridge, UK

### Deadline for manuscript submissions

30 November 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/244636](https://mdpi.com/si/244636)

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