

## Special Issue

# Mechanism of Cellular Signaling, Dysfunction, and Drug Effects on Alzheimer's Disease

### Message from the Guest Editor

The pathogenesis of Alzheimer's Disease (AD) remains not completely understood to this day. This is thought to be one important reason as to why no present therapy is able to cure or stop the progression of this disease.

Several different pathways are considered as important players in the initiation and/or progression of the disease; the currently most accepted theory is the cascade of pathological mechanisms initiated by soluble or fibrillar forms of Abeta, including increased inflammation, mitochondrial failure, disruption of Ca<sup>++</sup> and protein homeostasis, and alterations or loss of synapses, among others. Considering the complexity of AD and the failure or only very limited clinical effects of most single-targeted therapies, it seems to be essential (1) to elucidate further details of and connections to the intricate cellular and molecular mechanisms involved in the pathophysiology of AD and (2) to strive in advancing future therapeutic approaches that target several pathogenic factors of the disease in a stage-dependent manner as much as possible.

---

### Guest Editor

Dr. Eva Kiss

Department of Cellular and Molecular Biology, George Emil Palade University of Medicine, Pharmacy, Science and Technology of Târgu Mureș, Str. Gheorghe Marinescu nr. 38, Târgu Mureș, 540142 Mureș, Romania

---

### Deadline for manuscript submissions

20 September 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/221272](https://mdpi.com/si/221272)

*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)