

## Special Issue

# Brain/Mind Activity and Molecular Dynamics in Biological Systems

### Message from the Guest Editors

In brain studies, such a need of merging the atomist and dynamical views has been stressed since the forties by Karl Lashley who, based on observations in his laboratory, recognized that “nerve impulses are transmitted [...] from cell to cell through definite intercellular connections. Yet, all behavior seems to be determined by masses of excitation [...] within general fields of activity, without regard to particular nerve cells”.

This IJMS Special Issue is devoted to works, articles, or reviews aimed at merging the properties of individual molecules in biological systems with their dynamical interplay in the “living and thinking human being”. The aim is to provide a vision of the already known and possible interactions that link the functioning of the brain with other organs and the continuum of cells immersed in their aqueous environment that is rich in polar molecules in constant reciprocal interaction and as dissipative systems open to the environment. developments and update the current stage of knowledge.

### Guest Editors

Prof. Dr. Giuseppe Vitiello

Dipartimento di Fisica “E.R.Caianiello”, Università di Salerno, I-84100 Fisciano, Salerno, Italy

Dr. Carlo Dal Lin

Department of Cardiac, Thoracic and Vascular Sciences, Padua University School of Medicine, Via Giustiniani 2, 35100 Padua, Italy

### Deadline for manuscript submissions

closed (31 March 2023)



## International Journal of Molecular Sciences

an Open Access Journal  
by MDPI

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/si/68358](https://mdpi.com/si/68358)

*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)