

## Special Issue

# Molecular Advances in Bioelectrochemistry

### Message from the Guest Editors

The Special Issue aims to highlight the new interactions between biological systems and electrodes; this involves the study of electron transfer processes in biological molecules, which has applications in various fields such as energy conversion, biosensors, and biofuel cells. Molecular advances in bioelectrochemistry encompass a wide range of research areas, including the development of novel materials, our understanding of electron transfer mechanisms, and exploring applications in biotechnology. The molecular advances in bioelectrochemistry contribute to the development of innovative technologies with applications in energy storage, sensing, and biomedical devices. This Special Issue welcomes contributions addressing, but not limited to, the following topics: electron transfer in biological systems, bioelectrochemical sensors and biosensors, electroactive biomolecules, nanomaterials in bioelectrochemistry, enzyme engineering for biofuel cells, redox-active polymers, and molecular dynamics and simulation studies for bioelectrochemistry reactions.

### Guest Editors

**Dr. Ana Dora Rodrigues Pontinha**

1. University of Coimbra, ISISE, ARISE, Department of Civil Engineering, Rua Luís Reis Santos, 3030-788 Coimbra, Portugal
2. SeaPower, Associação para o desenvolvimento da Economia do Mar, Rua Das Acácias, N° 40A, Parque Industrial Da Figueira Da Foz, 3090-380 Figueira Da Foz, Portugal

**Dr. Beatriz Merillas**

1. Department of Chemical Engineering, CERES, University of Coimbra, Rua Sílvia Lima, 3030-790 Coimbra, Portugal
2. Cellular Materials Laboratory (CellMat), Department of Condensed Material Physics, Facultad de Ciencias, University of Valladolid, 47011 Valladolid, Spain

### Deadline for manuscript submissions

closed (20 November 2024)



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/si/194731](https://mdpi.com/si/194731)

*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)