

## Special Issue

# Molecular Applications of Microbial and Marine-Derived Natural Products with Health Benefits

### Message from the Guest Editor

Currently, microbial and marine-derived natural products are being widely investigated to decipher their interactions with macromolecular entities intrinsic to the human body or pathogens. Through various molecular mechanisms, microorganisms have considerable applications in medicine, acting as direct treatments (e.g., probiotics or engineered microbes) or enabling the production of antibiotics, vaccines, enzymes, human insulin, growth hormones, interferons, anticancer, and immunosuppressive drugs. Moreover, marine-derived nutraceuticals have numerous health benefits, targeting various key molecules and metabolic pathways. This Special Issue is being led by Prof. Dr. Simona Negreş and assisted by our Dr. Violeta Popovici (Department of Integrated Mountain Territorial Development, Center for Mountain Economics “Costin C. Kirişescu” National Institute of Economic Research of the Romanian Academy). Therefore, in this Special Issue, we welcome original studies at the molecular level or literature reviews on the applications of microbial and marine-derived natural products in health and disease.

---

### Guest Editor

Prof. Dr. Simona Negreş

Department of Pharmacology and Clinical Pharmacy, Faculty of Pharmacy, “Carol Davila” University of Medicine and Pharmacy, 6 Traian Vuia Street, District 2, 02095 Bucharest, Romania

---

### Deadline for manuscript submissions

closed (31 December 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/245399](https://mdpi.com/si/245399)

*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)* 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, and molecular biophysics. *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. José L. Quiles  
Department of Physiology, Institute of Nutrition and Food Technology  
"Jose Mataix", Biomedical Research Center, University of Granada,  
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

---

### 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, CAPus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)