

## Special Issue

# Microbial Resistance Mechanisms

### Message from the Guest Editor

With the dramatic increase in antibiotic resistance in microbes, new knowledge regarding the mechanisms of this drug resistance is important for the development of novel therapies. These microbial resistance mechanisms focus on the modification of a drug target, its uptake limiting, and active efflux from microbial cells. Moreover, in many clinical settings, a biofilm represents a hazardous problem concerning many chronic infections involving these consortia of microbial cells enclosed by a polysaccharide matrix. A biofilm structure protects against antimicrobial agents and can stimulate their resistance mechanisms. The need for new knowledge regarding microbial resistance mechanisms seems crucial and is required for novel antibacterial agent design and applications. This Special Issue focuses on the molecular studies of microbial resistance mechanisms of planktonic or biofilm-forming cells, which might be considered as targets for new drugs action. These two topics of study are welcomed.

### Guest Editor

Dr. Michał Arabski

Division of Medical Biology, Jan Kochanowski University, 25-406 Kielce, Poland

### Deadline for manuscript submissions

closed (30 June 2023)



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 8.1  
Indexed in PubMed



[mdpi.com/si/115499](https://mdpi.com/si/115499)

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

[mdpi.com/journal/](https://mdpi.com/journal/)

[ijms](https://www.mdpi.com/journal/ijms)





# International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 8.1  
Indexed in PubMed



[mdpi.com/journal/](https://mdpi.com/journal/ijms)

[ijms](https://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 (Inorganic Chemistry)