



## State-of-the-Art Molecular Microbiology in China

Collection Editors:

**Dr. Shengguo Zhao**

State Key Laboratory of Animal Nutrition, Institute of Animal Sciences, Chinese Academy of Agricultural Sciences, No. 2 Yuanmingyuan West Road, Beijing 100193, China

**Dr. Zeng-yan Zhang**

The National Key Facility for Crop Gene Resources and Genetic Improvement, Institute of Crop Sciences, Chinese Academy of Agricultural Sciences, Beijing 100081, China

### Message from the Collection Editors

Dear Colleagues,

This Topical Collection aims to provide a comprehensive overview of recent advances in molecular microbiology in China by inviting contributions from Chinese research institutes/laboratories that consolidate our understanding of this area. Topics include, but are not limited to, the following:

- Antibiotic resistance mechanisms;
- Biosynthesis of macromolecules;
- Cell division and cell wall structure;
- Gene expression and its regulation;
- Gene transfer mechanisms;
- Host–pathogen interactions, including host responses;
- Induction of cell death by microorganisms;
- Membrane biogenesis and function;
- Pathogenicity mechanisms;
- Post-translational modifications;
- Protein delivery (secretion and trafficking);
- Signaling pathways and networks;
- Systems biology;
- Vaccines;
- Virulence factors;
- Antimicrobial peptides;
- Therapeutic strategies;
- Nutrients metabolism;
- Genomics and metagenomics;
- Interaction of microbes with host;
- Protein structure and function;
- Probiotics;





International Journal of  
**Molecular Sciences**

Indexed in:  
**PubMed**

CITESCORE  
**7.8**

IMPACT  
FACTOR  
**5.6**

an Open Access  
Journal by MDPI

## 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 & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

## 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.

## Contact Us

International Journal of Molecular  
Sciences Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/ijms  
ijms@mdpi.com  
X@IJMS\_MDPI