

## Special Issue

# Molecular Study of Bacterial Pneumonia and Pathogens

### Message from the Guest Editor

Pneumonia and other lower respiratory tract infections (LRTIs) have been estimated to affect 489 million people worldwide, as revealed by the 2019 Global Burden of Disease study. It is important to note that as a clinical entity, pneumonia can be classified as community-acquired pneumonia or hospital-acquired pneumonia, each also differing regarding its etiology and pathology. Additionally, a diverse range of microorganisms can be the causative agents of pneumonia, including bacteria, viruses and fungi. This Special Issue will focus on bacterial pneumonia, encompassing either of its clinical forms with a focus on molecular aspects characterizing the disease presentation, transmission and epidemiology. The fact that a diverse set of bacterial species can act as causative agents of this disease, with varying geographical distributions and distinct resistance patterns and mechanisms, prompts the implementation of research on molecular mechanisms underlying the disease presentation, pathogen transmission and acquisition of resistance. The main objective of this Special Issue is to publish high-quality research on these topics, and either original or review articles are welcomed.

### Guest Editor

Dr. João Perdigão

iMed.U LISBOA – Instituto de Investigação do Medicamento, Faculdade de Farmácia, Universidade de Lisboa, 1649004 Lisbon, Portugal

### Deadline for manuscript submissions

closed (30 June 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/150433](https://mdpi.com/si/150433)

*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)