

Special Issue

Mechanisms in Biofilm Formation, Tolerance and Control

Message from the Guest Editors

Research on biofilms has progressed rapidly in the last two decades. The scientific community has come to understand many things about the particular biology of microbial biofilms through a variety of microscopic, physical, chemical, and molecular techniques. Such advances provided fundamental insights for the management of biofilms by different approaches. For problematic biofilms, some studies seek to prevent biofilm formation, others aim to develop antimicrobial agents to treat existing biofilms, and others to disrupt the polymeric ties that bind the biofilms together. It is now clear that the study of biofilms requires a multidisciplinary approach, and that the knowledge on many of the aspects affecting biofilm formation and resistance remain superficial. This Special Issue aims to collect the recent advances in biofilm research, particularly on the mechanisms underlying biofilm formation and tolerance to antimicrobials. Studies on control approaches targeting specific biofilm mechanisms are within the aim of this Special Issue.

Guest Editors

Dr. Lúcia Chaves Simões

Department of Biology, University of Minho, Campus de Gualtar, 4710-057 Braga, Portugal

Dr. Manuel Simões

LEPABE, Department of Chemical Engineering, Faculty of Engineering, University of Porto, Rua Roberto Frias, s/n, 4200-465 Porto, Portugal

Deadline for manuscript submissions

closed (15 December 2022)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 5.6
CiteScore 10.0
Indexed in PubMed



mdpi.com/si/88540

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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 5.6
CiteScore 10.0
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 (Inorganic Chemistry)