

Special Issue

Nano for Health: Strategies and Challenges of Nanotechnology for Drug Delivery

Message from the Guest Editors

Nanotechnology has become an excellent platform with many applications in different fields of science, allowing us to control and manipulate matter at the nanoscale by designing and engineering new systems. In the health field, nanotechnology has been shown to be an optimal solution to improve the effectiveness of different drugs. An established strategy for drug delivery consists of encapsulating the drugs in a suitable nanocarrier system. As a result, there is an increased therapeutic index by controlling the rate and site of drug release, solubility and stability. Moreover, nanocarriers can extend a formulation's action and successfully combine active substances with different degrees of hydrophilicity. However, there also are some associated challenges. Many drug delivery systems lack knowledge of their molecular mechanisms of interaction with the cell. In addition, there is a need for a better characterization and understanding of toxicity issues since the actual knowledge about the fate of nanocarriers is still insufficient.

Guest Editors

Dr. Dragana Barros

Instituto de Tecnologia Química e Biológica António Xavier (ITQB),
Universidade Nova de Lisboa, Av. da República, 2780-157 Oeiras,
Portugal

Dr. Catarina Pinto Reis

IBEB/FCUL, iMed.U.Lisboa, Faculty of Pharmacy, University of Lisboa,
Lisboa, Portugal

Deadline for manuscript submissions

closed (20 January 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/185899

*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 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)