

Special Issue

Network Medicine in Human Diseases

Message from the Guest Editors

Network science is nowadays at the forefront to meet this challenge and its potential has been widely demonstrated. The employment of network science principles to biomolecular applications enabled the full integration and exploitation of heterogeneous (multi-)omics datasets, uncovering key molecular mechanisms responsible for the onset of human diseases and facilitating the design of new and more effective treatments. In the context of human complex diseases, network medicine allows to simultaneously evaluate the molecular impairment underlying the disease under study and the mechanism-of-action of drugs, identifying novel therapeutic targets for a certain disease. Modelling drug response using network-based predictions can lead to accurate and robust predictions in terms of druggability of biological systems, enabling the design of innovative and effective treatments. For these reasons, network medicine will arguably be the instrument to tackle the complexity behind human pathological phenotypes, improving current treatments for curable diseases and finding new therapies for untreatable ones.

Guest Editors

Dr. Antonio Federico

Finnish Hub for Development and Validation of Integrated Approaches (FHAIIVE)–Faculty of Medicine and Health Technology, Tampere University, 33100 Tampere, Finland

Dr. Giovanni Scala

Department of Biology, University of Naples ‘Federico II’, 80126 Naples, Italy

Deadline for manuscript submissions

closed (20 December 2022)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/128028

*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)