

Special Issue

Exploring Rare Diseases: Genetic, Genomic and Metabolomic Advances

Message from the Guest Editors

Rare diseases, defined as life-threatening, chronically debilitating conditions, represent a substantial public health burden as they affect ca. 2–6% of the population. Currently, there are around 5000–8000 different rare diseases, and these numbers are continuing to increase. Despite intensive research, the genetic etiology and pathomechanisms of the majority of rare diseases are still unclear, and most of them do not yet have an approved therapy. Their diagnostics and care pathways are also challenging due to their rarity, heterogeneous manifestations, multisystem involvement and the often-observed incomplete penetrance. In addition, patients with undiagnosed genetic diseases often face a diagnostic odyssey that lasts for an average of eight years; moreover, a certain number of patients receive a misdiagnosis. The aim of this Special Issue is to collect original and review articles that provide cutting-edge knowledge related to genetic, genomic and metabolomic investigations in rare disorders. Keywords

- rare diseases
- genotype–phenotype analyses
- biomarker discovery
- molecular targeted therapy

Guest Editors

Dr. Judit Bene

Department of Medical Genetics, Medical School, Clinical Center,
University of Pécs, 7624 Pécs, Hungary

Dr. Kinga Hadzsiev

Department of Medical Genetics, Medical School, University of Pécs,
7624 Pécs, Hungary

Deadline for manuscript submissions

30 November 2024



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 8.1
Indexed in PubMed



mdpi.com/si/207436

*International Journal of
Molecular Sciences*
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

mdpi.com/journal/

[ijms](https://ijms.mdpi.com)





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 8.1
Indexed in PubMed



[mdpi.com/journal/](https://mdpi.com/journal/ijms)

ijms



About the Journal

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.

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 and Molecular Biology) / CiteScore - Q1 (Inorganic Chemistry)