

Special Issue

Complex Molecular Mechanism of Monogenic Diseases 2.0

Message from the Guest Editor

Monogenic diseases are defined as genetic disorders caused by mutations in single genes. Therefore, one could assume that their mechanisms might be relatively simple, as a defect in one gene should cause dysfunction of just one protein or functional RNA molecule. However, recent studies have indicated that molecular mechanisms of monogenic diseases are significantly more complicated. Dysfunction of one gene product results not only in the inactivation of just one biochemical reaction, but a network of various reactions is affected. Then, secondary and tertiary effects sometimes lead to dysregulation of various cellular processes, including the up- or down-regulation of the expression of many genes, and disturbance of the physiology of cells, tissues, organs, and whole organisms. We are only at the beginning of understanding the complicated molecular mechanisms of monogenic diseases.

Guest Editor

Prof. Dr. Grzegorz Wegrzyn

Department of Molecular Biology, University of Gdańsk, Gdańsk, Poland

Deadline for manuscript submissions

closed (31 March 2024)



Current Issues in Molecular Biology

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 3.7
Indexed in PubMed



mdpi.com/si/164161

Current Issues in Molecular Biology
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cimb@mdpi.com

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





Current Issues in Molecular Biology

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 3.7
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Madhav Bhatia

Department of Pathology and Biomedical Science, University of Otago,
Christchurch, 2 Riccarton Avenue, P.O. Box 4345, Christchurch 8140,
New Zealand

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PMC,
PubMed, Embase, CAPus / SciFinder, FSTA, AGRIS, and
other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 17.8 days after
submission; acceptance to publication is undertaken in 2.7
days (median values for papers published in this journal in
the first half of 2025).

Recognition of Reviewers:

APC discount vouchers, optional signed peer review, and
reviewer names are published annually in the journal.