

Special Issue

New Immunological Therapeutic Strategies in Kidney Disease

Message from the Guest Editor

A new FDA-approved immunotherapy stabilizes kidney function in patients with IgA nephritis by suppressing intestinal immune system overactivity. In addition, targeting the IL-23/IL-17 pathway has shown promise in treating immune-mediated kidney diseases. Blocking IL-23 signaling in renal tubular epithelial cells can create an immune regulatory microenvironment in the kidney, effectively treating renal autoimmune disease. Also, chimeric antigen receptor (CAR) T-cell therapy is being adapted for kidney diseases. This approach can target autoreactive immune cells or restore immune tolerance. Furthermore, mesenchymal stem cells are being investigated for their potential to modulate chronic kidney disease progression through immunomodulatory, anti-fibrotic, anti-inflammatory, antioxidant, anti-apoptotic, and angiogenic properties. These emerging strategies represent a shift towards more targeted and personalized approaches for treating immune-mediated kidney diseases, potentially offering improved outcomes for patients with various renal conditions.

Guest Editor

Dr. Yasunari Matsuzaka

1. Department of Microbiology and Immunology, Showa Medical University Graduate School of Medicine, Shinagawa-ku, Tokyo 142-8555, Japan
2. Division of Molecular and Medical Genetics, Center for Gene and Cell Therapy, The Institute of Medical Science, The University of Tokyo, Minato-ku, Tokyo 108-8639, Japan
3. Administrative Section of Radiation Protection, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Tokyo 187-8551, Japan

Deadline for manuscript submissions

closed (31 December 2025)



Current Issues in Molecular Biology

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 3.7
Indexed in PubMed



mdpi.com/si/225750

*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





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 Molecular Medicine, University of Otago,
Christchurch 8140, New Zealand

Author Benefits

High Visibility:

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

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).

Recognition of Reviewers:

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