## **Special Issue**

### Advances in Molecular Biology Methods in Hepatology Research

#### Message from the Guest Editors

Recent advances in molecular biology methods have profound implications for deciphering the complexities of hepatology research, specifically in understanding liver function, disease development and novel therapies. The integration of genomic technologies such as Next-Generation Sequencing (NGS), single-cell sequencing, CRISPR-Cas9 and epigenetic studies allow for a more comprehensive analysis of the liver's genomic landscape. Similarly, advancements in single-cell proteomic techniques, including sensitive mass spectrometry and high-throughput proteomics, have made it possible to identify and quantify liver proteins at the cellular level. In addition to advances in genomic techniques, the development of advanced hepatic in vivo models and liver tissue engineering, utilizing technologies such as CRISPR-Cas9, places a clear emphasis on creating humanized organoid models. Overall, these advancements in molecular biology have propelled hepatology research to the next level, offering additional opportunities for efficient diagnosis, treatment, and prevention strategies for hepatic diseases.

#### **Guest Editors**

Dr. Dileep G. Nair

Institute of Molecular Pathobiochemistry, Experimental Gene Therapy and Clinical Chemistry (IFMPEGKC), RWTH University Hospital Aachen, D-52074 Aachen, Germany

Prof. Dr. Ralf Weiskirchen

Institute of Molecular Pathobiochemistry, Experimental Gene Therapy and Clinical Chemistry (IFMPEGKC), RWTH University Hospital Aachen, D-52074 Aachen, Germany

#### Deadline for manuscript submissions

closed (30 June 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/203370

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

### **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, CAPlus / 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.

