

Special Issue

Mechanism of Cellular Signaling, Dysfunction and Drug Effects on Liver Diseases

Message from the Guest Editor

The etiologies of liver disease are variable, including viral hepatitis, autoimmune hepatitis, and alcoholic liver disease. In the so-called “leaky gut”, the increased intestinal permeability to bacteria and their products is an important pathogenetic factor in major complications in patients with liver diseases. Pathological bacterial translocation (BT) is another factor contributing to the development of various complications. BT-induced inflammation prevents the synthesis of bile acids (BAs) in the liver through the inhibition of BA-synthesizing enzyme. A lower abundance of 7 α -dehydroxylating gut bacteria leads to the decreased conversion of primary to secondary BAs. Decreases in total and secondary BAs may play an important role in gut dysbiosis. In this Special Issue, we aim to explore important aspects of cellular signaling and cellular dysfunction in the pathophysiology and drug effects of various liver diseases. These approaches may help to shed further light on the future management of hepatology.

Guest Editor

Prof. Dr. Hiroshi Fukui

Department of Gastroenterology, Nara Medical University, Kashihara 634-8521, Japan

Deadline for manuscript submissions

closed (30 September 2023)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/113350

*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*, 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 (Organic Chemistry)