Special Issue

Multi-Organ Alcohol-Related Damage: Mechanisms and Treatment

Message from the Guest Editors

Alcohol consumption causes damage to various organs and systems. Liver is a primary target for the detrimental effects of alcohol since this substance of abuse is mainly metabolized by liver cells which express high levels of two major alcohol oxiding enzymes, alcohol dehydrogenase and CYP2E1. Other organs, including brain, gut, pancreas, lungs, immune system are also affected by alcohol. Alcohol may also serve as a second hit for progression of viral infections, autoimmune diseases and cancer. Common mechanisms of alcohol-related organ injury include increases in oxidative stress, methylation impairments, posttranslational modifications of proteins, dysregulation of lipid metabolism and signal transduction pathways that ultimately affect cell survival and function. This Topical Collection will cover the pathobiology of alcohol-sensitive organ injury and the development of targeted treatment strategies. We encourage you to share your research in this broad field that demonstrates how the harmful effects of alcohol contribute to disease initiation and progression in the liver and other organs of the body.

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Deadline for manuscript submissions

6 August 2025

Biomolecules

an Open Access Journal by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/4261

Biomolecules
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Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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