



Multi-Organ Alcohol-Related Damage: Mechanisms and Treatment

Guest Editors:

Prof. Dr. Natalia Osna

Department of Internal Medicine,
University of Nebraska Medical
Center, Veteran Affairs Medical
Center, 4101 Woolworth Ave,
R151, Omaha, NE 68105-8080,
USA

Prof. Dr. Kusum K. Kharbanda

Department of Internal Medicine,
University of Nebraska Medical
Center, Omaha, NE 68105, USA

Deadline for manuscript
submissions:

9 November 2024

Message from the Guest Editors

Dear Colleagues,

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 oxidizing 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.

Prof. Natalia Osna

Prof. Kusum Kharbanda

Collection Editors





an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Peter E. Nielsen

Department of Cellular and
Molecular Medicine, Faculty of
Health and Medical Sciences,
University of Copenhagen,
Blegdamsvej 3C, DK-2200
Copenhagen, Denmark

Prof. Dr. Lukasz Kurgan

Department of Computer
Science, Virginia Commonwealth
University, Richmond, VA 23284,
USA

Message from the Editorial Board

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.

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, MEDLINE, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Biochemistry)

Contact Us

Biomolecules Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/biomolecules
biomolecules@mdpi.com
X@Biomol_MDPI