

Special Issue

Nonalcoholic Fatty Liver Disease: From Molecular Mechanisms to Therapeutic Approaches

Message from the Guest Editors

Nonalcoholic fatty liver disease, or NAFLD, refers to a liver problem that affects human beings who drink little to no alcohol, and it is becoming more common, especially in Middle Eastern and Western countries, with increasing rates of obesity. In recent years, great efforts have been made to investigate the pathogenesis of NAFLD; accordingly, a large quantity of biomolecules (small synthetic molecules, natural products, active peptides, oligonucleotide, etc.) with decent activities have been discovered as promising therapeutics through a variety of mechanisms, such as mitochondrial uncouplers, fibroblast growth factor activators, etc. Therefore, this Special Issue aims to publish submissions covering either the identification of biomolecules with promising therapeutic effects or mechanistic studies of biomolecules targeting NAFLD.

Guest Editors

Dr. Yumin Dai

Department of Chemistry and Virginia Tech Center for Drug Discovery, Virginia Polytechnic Institute and State University, Blacksburg, VA, USA

Dr. Martina Beretta

School of Biotechnology and Biomolecular Sciences, University of New South Wales, Sydney, NSW 2052, Australia

Deadline for manuscript submissions

31 May 2026



Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/215369

Biomolecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biomolecules@mdpi.com

[mdpi.com/journal/
biomolecules](https://mdpi.com/journal/biomolecules)





Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed



[mdpi.com/journal/
biomolecules](https://mdpi.com/journal/biomolecules)



About the Journal

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.

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

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, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Biochemistry)