Special Issue

Biomolecules and Biomaterials for Tissue Engineering

Message from the Guest Editor

Tracing back to its roots in the 1990s, tissue engineering has had a transformative trajectory in fields such as regenerative medicine, drug testing, and disease modeling. At the heart of this evolution are biomolecules and biomaterials, intricate components that steer cellular behavior and subsequently enable the fabrication of functional, biomimetic tissues. This Special Issue underscores the crucial need for a more profound understanding of biomolecules and biomaterials and their diverse roles within tissue engineering. Our focus encompasses the development of novel biomolecules and biomaterials; their applications, including bioprinting; and the innovative strategies involved in their modification. These key topics will be complemented by studies featuring cutting-edge tools and techniques facilitating such progress. Through this exploration, our Special Issue aims to offer deep insights into the significance of biomolecules and biomaterials, highlighting their role as critical catalysts driving progress in tissue engineering. We warmly invite your valuable contributions—original research or reviews -that will enrich this vital discourse.

Guest Editor

Prof. Dr. Shinji Sakai

Division of Chemical Engineering, Department of Materials Engineering Science, Graduate School of Engineering Science, Osaka University, Osaka 560-8531, Japan

Deadline for manuscript submissions

closed (15 May 2024)



Biomolecules

an Open Access Journal by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/174968

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

mdpi.com/journal/biomolecules





Biomolecules

an Open Access Journal by MDPI

Impact Factor 4.8 CiteScore 9.2 Indexed in PubMed



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, CAPlus / SciFinder, and other databases.

Journal Rank:

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

