

Special Issue

Design, Synthesis, and Evaluation of New Anticancer Substances and Radiopharmaceuticals

Message from the Guest Editors

The development of novel anticancer agents and radiopharmaceuticals remains a multidisciplinary field at the intersection of medicinal chemistry, molecular biology, pharmacology, and nuclear medicine. This research area focuses on the rational design, synthesis, and biological evaluation of new compounds with selective cytotoxicity against cancer cells.

Radiopharmaceuticals, which combine biologically active molecules with radioactive isotopes, offer both diagnostic and therapeutic (theranostic) potential—enabling personalized treatment strategies and real-time monitoring of therapeutic outcomes. Advances in synthetic methodologies, structure–activity relationship (SAR) studies, and in vitro/in vivo evaluation models are accelerating the translation of promising candidates from bench to bedside. This topic invites contributions highlighting innovative approaches to the design and functional evaluation of small molecules, metal complexes, peptides, or nanoparticles with anticancer and/or radiopharmaceutical applications.

Guest Editors

Prof. Dr. Monika Pitucha

Independent Radiopharmacy Unit, Faculty of Pharmacy, Medical University of Lublin, 20-093 Lublin, Poland

Dr. Marta Rusek

Independent Radiopharmacy Unit, Faculty of Pharmacy, Medical University of Lublin, 20-093 Lublin, Poland

Deadline for manuscript submissions

31 December 2025



Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/243470

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)