biomolecules

IMPACT FACTOR 4.8

Indexed in: PubMed

CITESCORE 9.2

an Open Access Journal by MDPI

Glycosaminoglycans (GAGs) and Mimetics—from Basic Science to Applications

Guest Editors:

Dr. Daniel Afosah
1. Department of Medicinal Chemistry, Virginia Commonwealth University, Richmond, VA 23298, USA
2. Drug Discovery and Development, Institute for Structural Biology, Virginia Commonwealth University, Richmond, VA 23219, USA

Dr. Rami A. Al-Horani
Division of Basic Pharmaceutical Sciences, College of Pharmacy, Xavier University of Louisiana, New Orleans, LA 70125, USA

Deadline for manuscript submissions:
closed (31 December 2024)

Message from the Guest Editors

Dear Colleagues,

Research involving glycosaminoglycans (GAGs), negatively charged biomacromolecules, has gained prominence in recent years. This is in part due to advances in the field, particularly with respect to their isolation, chemical and enzymatic synthesis, and structural characterization. Furthermore, the field has seen an increase in the number of tools available to study the interactions of these molecules with their protein targets, with computational approaches becoming more routine given the challenges with obtaining GAGs in pure form and the increased access to high computing power. The development of molecules that mimic the structure and function of natural GAGs is also witnessing an upsurge.

This Special Issue encompasses fundamental science discoveries and applications of GAGs and GAG-like molecules and will cover topics on 1) the synthesis/preparation of GAGs and GAG-like molecules, 2) the structural characterization of GAGs and GAG-like molecules, 3) the interaction of GAGs and GAG-like molecules with cellular targets, and 4) therapeutic and other applications of GAGs and GAG-like molecules.

Dr. Daniel Afosah
Dr. Rami A. Al-Horani
Guest Editors

mdpi.com/si/183510

Special Issue

biomolecules

IMPACT FACTOR 4.8 | Indexed in: PubMed | CITESCORE 9.2

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