

Special Issue

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

Message from the Guest Editors

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.

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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.

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