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

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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.

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