Special Issue

Glycomimetics

Message from the Guest Editor

Glycomimetics are frequently designed and synthesized on the basis of natural sugar molecules by replacing the acetalic oxygens by other atoms such as sulfur, nitrogen, and carbon, just to mention the preponderant ones. Contemporary design, synthesis, and evaluation of glycomimetic molecules can be and most often are performed in close collaboration of chemists with structural biologists, biochemists, and molecular modeling and computational experts. This truly interdisciplinary working method may lead to novel chemical entities of unprecedented biological actions and, ultimately, new drugs against otherwise hardly treatable diseases such as cancer, neurodegenerative disorders, bacterial infections, and diabetes. This Special Issue is devoted to glycomimetics in the broadest sense, and all aspects of the field are considered to be included as original research articles and reviews. In addition, the issue will incorporate works presented at the Debrecen Colloquium on Carbohydrates 2020 in 2022—Rezső Bognár Memorial Conference on Glycomimetics (August 24-27, 2022, Debrecen, Hungary; https://konferencia.unideb.hu/en/debcarb2020).

Guest Editor

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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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