# **Special Issue**

# Carbohydrate Chemistry

### Message from the Guest Editor

Carbohydrates, also called saccharides, are the most abundant biomolecules in nature and are found in all living organisms. Although well known as a source of energy and cell wall components, they act as the bioactive compounds "glycoconjugates", in which mono- or oligosaccharide is covalently attached to proteins, lipids and other biomolecules. Glycoconjugates play pivotal roles in numerous biological events such as cell adhesion and immune response, and have therefore been attracting interest from not only biologists but also chemists. Carbohydrate chemistry has contributed to providing natural and nonnatural products as powerful tools for the elucidation of their biological functions, leading to drug discovery. This Special Issue of *Molecules* focuses on carbohydrate chemistry. We encourage authors to submit research papers describing new synthetic methodologies in oligosaccharide synthesis, including glycosylation and protection strategies. The development of glycosylation methods, protecting groups of carbohydrates, and the synthesis of carbohydrate-based compounds such as alvosidase inhibitors are also welcome.

### **Guest Editor**

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### Deadline for manuscript submissions

closed (31 May 2019)



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CiteScore 8.6
Indexed in PubMed



mdpi.com/si/21334

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## **About the Journal**

## Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th 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 all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

### Editor-in-Chief

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