



an Open Access Journal by MDPI

# **Glycosaminoglycans and Glycomimetics**

Guest Editors:

### Prof. Dr. Fuming Zhang

Department of Chemical and Biological Engineering, Center for Biotechnology and Interdisciplinary Studies, Rensselaer Polytechnic Institute, Troy, NY 12180, USA

#### Prof. Dr. Robert J. Linhardt

Chemistry and Chemical Biology, Biology and Chemical and Biological Engineering, Rensselaer Polytechnic Institute, Biotech. Center 4005 110 8th Street, Troy, NY 12180-3590, USA

#### Prof. Dr. Lianchun Wang

Department of Biochemistry and Molecular Biology, University of Georgia, Athens, GA, USA

#### Message from the Guest Editors

Glycosaminoglycans (GAGs) have been found to play numerous important roles in a broad range of physiological and pathological processes including blood coagulation, cell growth and differentiation, host defense, viral infection, lipid transport and metabolism, cell-to-cell and cell-to-matrix signaling, inflammation, cancer and Alzheimer's disease. In recent years, the research in GAGs and glycomimetics has been undergoing rapid progress because of the advances in glycan structural analysis, synthesis and genetic manipulation. More and more potential clinical applications of GAGs and glycomimetics have been discovered for the treatment of a wide range of diseases. In this Special Issue on "Glycosaminoglycans and Glycomimetics", we present the latest research and updated reviews related to these ubiquitous biomolecules of fundamental importance.

Deadline for manuscript submissions: closed (28 February 2019)









an Open Access Journal by MDPI

### **Editor-in-Chief**

#### Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

### 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.

# **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, Reaxys, CaPlus / SciFinder, MarinLit, AGRIS, and other databases.

**Journal Rank:** JCR - Q2 (*Chemistry, Multidisciplinary*) / CiteScore - Q1 (*Chemistry (miscellaneous)*)

# Contact Us

*Molecules* Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/molecules molecules@mdpi.com X@Molecules\_MDPI