

Special Issue

Glycans and Glycan-Binding Proteins in Drug Research

Message from the Guest Editors

Glycans are a large and diverse family of biomolecules that contain a huge amount of molecular information that is decoded by lectins through specific carbohydrate–protein interactions. Due to the ubiquitous presence of these molecules in all organisms, carbohydrates are involved in a plethora of biological events, being key players in several pathological and physiological processes, including inflammation, cancer progression and metastases, cell development and differentiation, viral infection, etc. For this reason, carbohydrates and their derivatives are excellent building blocks to create drugs and biotools. The development of specific synthetic strategies and the analytical tools to prepare and characterize well-defined glycan structures have allowed for a deep understanding of their role to be developed, in turn leading to the advancement of this field. This Special Issue aims to collect new contributions in the field, focused on drug development based on glycans, which highlights the relevance of these molecules and the interest that they generate within the scientific community.

Guest Editors

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Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

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