Synthesis meets Biology

Synthetic Model Compounds for a better Understanding of Glycobiology
Synthesis meets Biology
Glycoprotein and Glycolipid Mimetics

Glycocalyx Mimetics

 Modification of Surfaces

Photoactive Compounds

Multivalent Glycomimetics

Synthetic Methodology

Assays & Analytical Methods

Molecular Modeling

Multivalency Effects

Structural Diversity

Weak Interactions

Glycocalyx Function

Bacterial Adhesion

Conformational Control

SPR, AFM, ITC

Carbohydrate-Water Interactions

Ligand-Receptor Interactions

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Carbohydrate-Water Interactions

Molecules, Models Methods Interactions Functions

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Molecules, Models Methods Interactions Functions
Cell Surface Carbohydrates in Concert
The **Glycocode** Model ?!
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Tool Box

Multivalency Effects
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Peptide Synthesis, Glycoamino acids, SPPS
Dendrimers, Clusters
Multivalent Glycomimetics
Photoactive Compounds
Glycosylation
Glycoside Synthesis
Nucleosides, Oligonucleotides
Assays, ELISA, ITC, SPR, NMR
Molecular Modeling
Ligand-Receptor Interactions