1. Record Nr. UNINA9910298645503321

Titolo	Carbohydrates as Drugs [[electronic resource] /] / edited by Peter H. Seeberger, Christoph Rademacher
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
ISBN	3-319-08675-8
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (242 p.)
Collana	Topics in Medicinal Chemistry, , 1862-2461 ; ; 12
Disciplina	615.3
Soggetti	Medicinal chemistry Carbohydrates Molecular biology Medicinal Chemistry Carbohydrate Chemistry Molecular Medicine
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Carbohydrate-Based Synthetic Chemistry in the Context of Drug Design -- Iminosugars: Therapeutic Applications and Synthetic Considerations -- Computational Docking as a Tool for the Rational Design of Carbohydrate-Based Drugs -- Discovery and Development of Selective Renal Sodium-Dependent Glucose Cotransporter 2 (SGLT2) Dapagliflozin for the Treatment of Type 2 Diabetes -- Design, Synthesis, and Applications of Galectin Modulators in Human Health -- Discovery and Application of FimH Antagonists -- Carbohydrate-Based Anti-Virulence Compounds Against Chronic Pseudomonas aeruginosa Infections with a Focus on Small Molecules -- The Evolution of a Glycoconjugate Vaccine for Candida albicans.
Sommario/riassunto	Medicinal chemistry is both science and art. The science of medicinal chemistry offers mankind one of its best hopes for improving the quality of life. The art of medicinal chemistry continues to challenge its practitioners with the need for both intuition and experience to discover new drugs. Hence sharing the experience of drug research is

uniquely beneficial to the field of medicinal chemistry. Drug research requires interdisciplinary team-work at the interface between chemistry, biology and medicine. Therefore, the topic-related series Topics in Medicinal Chemistry covers all relevant aspects of drug research, e.g. pathobiochemistry of diseases, identification and validation of (emerging) drug targets, structural biology, drugability of targets, drug design approaches, chemogenomics, synthetic chemistry including combinatorial methods, bioorganic chemistry, natural compounds, high-throughput screening, pharmacological in vitro and in vivo investigations, drug-receptor interactions on the molecular level, structure-activity relationships, drug absorption, distribution, metabolism, elimination, toxicology and pharmacogenomics. In general, special volumes are edited by well known guest editors.