Record Nr. UNINA9910830727003321 Glycosciences [[electronic resource]]: status and perspectives // **Titolo** Hans-Joachim Gabius, Sigrun Gabius (editors) Pubbl/distr/stampa London;; New York,: Chapman & Hall, c1997 **ISBN** 1-281-84261-3 9786611842611 3-527-61473-7 3-527-61472-9 Descrizione fisica 1 online resource (662 p.) Altri autori (Persone) GabiusH. J <1955-> (Hans-Joachim) GabiusS <1960-> (Sigrun) 572 Disciplina 572.567 Soggetti Glycoconjugates Glycosylation 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 and index. Nota di contenuto Glycosciences; Contents; Chapter 1. The Information-Storing Potential of the Sugar Code: Chapter 2. Methods of Glycoconjugate Analysis: Chapter 3 Strategies for the Chemical Synthesis of Glycoconjugates; Chapter 4. Neoglycoconjugates: 5. Glycosyltransferases Involved in Nand O-Glycan Biosynthesis; Chapter 6. Topology of Glycosylation - a Histochemist's View; Chapter 7. Occurrence and Potential Functions of N-Glycanases; Chapter 8. Glycoproteins: Structure and Function; Chapter 9. Glycolipids: Structure and Function Chapter 10. Lectins as Tools for Glycoconjugate Purification and CharacterizationChapter 11. Proteoglycans . Structure and Functions; Chapter 12. GPI-Anchors: Structure and Functions; Chapter 13. The Biology of Sialic Acids: Insights into their Structure, Metabolism and Function in particular during Viral Infection; Chapter 14. The Biology of Sulfated Oligosaccharides; Chapter 15. Carbohydrate-Carbohydrate Interaction; Chapter 16. Carbohydrate-Protein Interaction; Chapter 17.

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Sommario/riassunto

A comprehensive survey of the topic, ranging from basic molecular research to clinical applications. Critical reviews by leading experts in each field summarize the state of knowledge and discuss the anticipated benefits of novel approaches and strategies. These include the impact of modern analysis techniques on glycobiology, the use of synthetic neoglycoproteins, or the clinical consequences of new insights into the physiological role of lectins and glycoconjugates in pathology, oncology, immunity, neuroscience and reproduction medicine. Throughout, the aim is to separate realistic applicati