

1. Record Nr.	UNINA9911019697903321
Titolo	Carbohydrate recognition in cellular function
Pubbl/distr/stampa	Chichester [England] ; ; New York, : Wiley, 1989
ISBN	9786612347610 9781282347618 1282347616 9780470513828 0470513829 9780470513835 0470513837
Descrizione fisica	1 online resource (306 p.)
Collana	Ciba Foundation symposium ; ; 145
Altri autori (Persone)	BockGregory HarnettSara
Disciplina	574.87/6
Soggetti	Cell receptors Carbohydrates Cellular recognition
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Symposium on Carbohydrate Recognition in Cellular Function, held at the Ciba Foundation, London, 15-17 November 1988"--P v. "Editors: Gregory Bock (organizer) and Sara Harnett"--p v. "A Wiley-Interscience publication."
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	CARBOHYDRATE RECOGNITION IN CELLULAR FUNCTION; Contents; Introduction; Oligosaccharide-protein interactions: a three-dimensional view; Multifunctional glycoprotein receptors for insulin and the insulin-like growth factors; Multiple subfamilies of carbohydrate recognition domains in animal lectins; Glycoprotein oligosaccharides as recognition structures; Binding modes of mammalian hepatic Gal/GalNAc receptors; General discussion I : Two human lysosomal membrane glycoproteins; Nucleoplasmic and cytoplasmic glycoproteins Bioactive ganglioside-mediated carbohydrate recognition in coupling with ecto-protein phosphorylationRole of carbohydrates in receptor-mediated fertilization in mammals; Families of neural adhesion

molecules; Structural and biological properties of the carbohydrate units of nervous tissue glycoproteins; Carbohydrate recognition in neuronal development: structure and expression of surface oligosaccharides and B-galactoside-binding lectins; General discussion II : Expression of developmentally regulated carbohydrates; Function and pathology of the sugar chains of human immunoglobulin G The role of oligosaccharides in modifying protein functionLeukosialin, a major sialoglycoprotein defining leucocyte differentiation; Final general discussion : The diversity of N-linked oligosaccharides on human immunodeficiency virus; Chairman's summing-up; Index of contributors; Subject index

---

#### Sommario/riassunto

Contributors to this volume explore the role of carbohydrates in communication between cells of multicellular organisms. Topics covered include the thermodynamics and spatial restrictions of oligosaccharide-protein interactions, the role of carbohydrates in recognition and as components of cell adhesion molecules, and abnormal glycosylation in several disease states.

---