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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.
