



Mammalian Carbohydrate Recognition Systems

By Crocker, Paul R.

Book Condition: New. Publisher/Verlag: Springer, Berlin | In the last decade there has been a great expansion in our knowledge of the existence, nature and functions of mammalian carbohydrate binding proteins. This book covers the structures and postulated functions for the major classes of mammalian carbohydrate binding proteins. These include intracellular lectins involved in diverse functions such as protein synthesis quality control, targeting of lysosomal enzymes and in the secretory pathway. In addition, several chapters are devoted to other major families of lectins that are found at the cell surface or in extracellular fluids which are involved in various recognition functions such as cell-cell interactions in inflammation and recognition of pathogen carbohydrates in host defence. | Lectins of the ER Quality Control Machinery.- 1 Introduction.- 2 Structural Aspects.- 3 Calnexin and Calreticulin in Quality Control of Glycoprotein Folding.- 4 Calnexin and Calreticulin in Glycoprotein Degradation.- 5 Regulation of Calnexin/Calreticulin-Substrate Interaction.- 5.1 Modifications of the Luminal Domain.- 5.2 Alterations of the Cytosolic Tail.- 6 Conclusions.- References.- MR60/ERGIC-53, a Mannose-Specific Shuttling Intracellular Membrane Lectin.- 1 Discovery.- 2 Structural Features.- 3 Intracellular Mannose-Specific Animal Lectins Are Homologous to Leguminous Plant Lectins.- 4 Oligomerization and Sugar Binding Activity.- 5 Cytological Features.- 6 Deciphering the...

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