

# Mammalian Carbohydrate Recognition Systems

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## MAMMALIAN CARBOHYDRATE RECOGNITION SYSTEMS



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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, targetting 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 Role of MR60/ERGIC-53: Looking for Highly Specific Oligosaccharide and Natural Glycoprotein Ligands.- 7 Concluding Remarks.- References.- The Cation-Dependent Mannose 6-Phosphate Receptor.- 1 Introduction.- 2 Intracellular Trafficking of the MPRs and Lysosomal Enzymes.- 2.1 Generation of the Mannose 6-Phosphate Recognition Marker.- 2.2 Subcellular Distribution of the MPRs.- 2.3 Targeting Signals in the Cytoplasmic Region of the MPRs.- 3 Primary Structure and Biosynthesis of the CD-MPR-- 3.1 Primary Structure.- 3.2 Genomic Structure.- 3.3 Oligomeric Structure.- 3.4 Co- and Post-Translational Modifications.- 3.4.1 Acylation.- 3.4.2 Phosphorylation.- 3.4.3 Glycosylation.- 4 Carbohydrate Recognition by the CD-MPR.- 4.1 Lysosomal Enzyme Recognition.- 4.2 Expression of Mutant Forms of...

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