

Lectins

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Preface. 1. Introduction. 2. History: The Early Pioneers; Blood Group Specificity; Mitogenic Stimulation; A Tool For Cancer Research; Lectins Galore; From Primary To Three-Dimensional Structures; Tools For Biological And Medical Research; Insight Into Biological Functions; Into Contemporary Lectin Research. 3. Detection, Occurrence And Isolation: Detection; Occurrence; Isolation And Purification. 4. Specificity And Affinity: Methodology; Carbohydrate Specificity; Role Of Oligosaccharide Conformation; Effect Of Multivalency; Energetics Of Protein-Carbohydrate Interactions; Non-Carbohydrate Ligands; Leczymes. 5. Molecular Structure: Plant Lectins; Animal Lectins; Protozoan Lectins; Bacterial Lectins; Viral Hemagglutinins. 6. Combining Sites: Lectin-Carbohydrate Bonds; Plant Lectins; Animal Lectins; Bacterial Lectins; Viral Hemagglutinins. 7. Genetics, Molecular Biology And Evolution: Genetics And Molecular Biology; Evolution Of Carbohydrate Binding Activity. 8. Applications: Methodology; Glycoconjugates In Solution; Cell-Bound Carbohydrates; Mapping Neuronal Pathways; Cell Separation; Mitogenic Stimulation; Anti-Adhesion Therapy; Clinical Uses; Diagnosis And Targeting; Other Applications. 9. Lectin Cytotoxicity And Lectin-Resistant Cells: Mechanism Of Action; Lectin-Resistant Mutants. 10. Nutritional Effects: Lectins In Edible Plants; Deleterious Effects In The Intestinal Tract; Systemic Effects. 11. Functions: Theoretical Considerations; Plant Lectins; Animal Lectins; Microbial Lectins. Abbreviations. Appendix 1: Monosaccharides Recognized By Lectins. Appendix 2: Disaccharides And Oligosaccharides. References. Index. EAN/ISBN : 9781402069536 Publisher(s): Springer Netherlands Format: ePub/PDF Author(s): Sharon, Nathan - Lis, H.

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