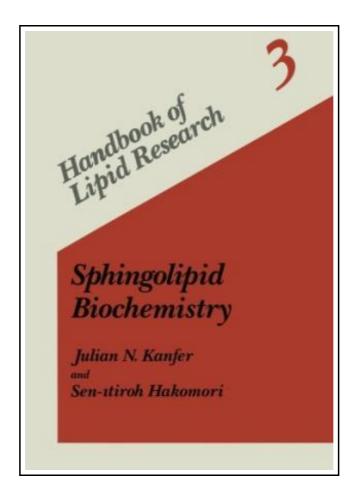
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Book Condition: New. Publisher/Verlag: Springer, Berlin | Interest in and emphasis upon different aspects of the sphingolipids have, in general, followed the biochemical developments of the day. The early inves tigators were preoccupied principally with the isolation of "pure" compounds and structural elucidation. This historical perspective is found in the discus sion presented in Chapter 1 (Section 1. 1. 2 and Table III). Still, the isolation and structural characterization of glycolipids are the basic foundation of all our knowledge of enzymology, immunology, and cell biology. Recent infor mation obtained on structure has greatly affected the interpretation of various phenomena related to glycolipids. New structures suggest a new role of gly colipids as antigens and receptors. Ten years ago, only four neutral glycolipids and two gangliosides were known in human erythrocytes. We now know structures of at least twenty additional neutral glycolipids and ten additional gangliosides in human erythrocytes that are known to be important blood group, heterophil, and autoantigens. Erythrocytes are only one example of a cell type whose glycolipid profile has been extensively studied. Our defective knowledge in immunology and cell biology may be due to incomplete un derstanding of structural chemistry. Modern methodology based on methyla tion analysis, mass spectrometry, and enzymatic degradation has supple mented classical analysis based on clorimetry. Nuclear magnetic resonance spectroscopy is still in the development stage, but will eventually replace var ious chemical analyses. However, important future studies should be directed toward elucidating the organizational structure of glycolipids in membranes. | 1 Chemistry of Glycosphingolipids.- 1.1. Introduction.- 1.1.1. Classification and Nomenclature of Glycosphingolipids.- 1.1.2. Brief History of the Chemistry of Glycosphingolipids.- 1.2. Isolation of Glycosphingolipids.- 1.2.1. Extraction.- 1.2.2. Purification of Lipid Extract: Elimination of Nonlipid Contaminants.- 1.2.3. Separation of Gangliosides and Long-Chain Neutral Glycolipids.- 1.2.4. Separation of Individual Glycolipids.- 1.3. Characterization of Glycosphingolipids.-...



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