1. Record Nr. UNINA9910146242603321 Autore Yawata Yoshihito <1936-> Titolo Cell membrane [[electronic resource]]: the red blood cell as a model / / Yoshihito Yawata Weinheim, : Wiley-VCH, c2003 Pubbl/distr/stampa **ISBN** 1-280-52041-8 9786610520411 3-527-60532-0 3-527-60153-8 Descrizione fisica 1 online resource (457 p.) Disciplina 612.111 616.0792 Soggetti Erythrocyte membranes Membrane proteins Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Cell Membrane; Contents; Preface; Foreword; Acknowledgments; 1 Introduction: History of Red Cell Membrane Research; 1.1 Invention of Optical Microscopes and Their Application to Hematology; 1.2 Discovery of Hereditary Spherocytosis by Light Microscopy; 1.3 The Dawn of Red Cell Membrane Research; 1.4 Commencement of Membrane Protein Biochemistry: Introduction of Sodium Dodecvl Sulfate-Polyacrylamide Gel Electrophoresis; 1.5 Elucidation of the Pathogenesis of Red Cell Membrane Disorders: 1.6 Genotypes of Red Cell Membrane Disorders 1.7 Reevaluation of Molecular Electron Microscopy for Phenotypes2 Composition of Normal Red Cell Membranes; 2.1 Introduction; 2.2 Membrane Lipids: 2.2.1 The Contents and Nature of Membrane Lipids: 2.2.2 Asymmetry of the Membrane Lipid Bilayer; 2.2.3 Membrane Fluidity: 2.2.4 Renewal of Membrane Lipids: 2.2.5 Interactions Between

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## Sommario/riassunto

This publication presents the structure and function of biological membranes to improve the understanding of cells in both normal and pathogenic states. Recently, vast amounts of new information have been accumulated, especially about pathological conditions, and there is now much evidence correlating genotypes and phenotypes in normal and disease states. This book surveys the most recent findings in research on the molecular biology, biochemistry, and genetics of the membranes of human red blood cells.