



# The Red Cell Membrane

**Janet Cooke Hansen**



## **The Red Cell Membrane:**

**Red Blood Cell Membranes** Peter Agre, 2020-08-11 This book is devoted to the red blood cell membrane its structure and function and abnormalities in disease states It presents a well documented and well illustrated comprehensive picture of clinical manifestations of red blood cell disorders The Red Cell Membrane Robert I. Weed, Ernst R. Jaffé, Peter A. Miescher, 1971

**Cell Membrane** Yoshihito Yawata, 2006-01-24 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 The Red Cell Membrane B. U. Raess, G. Tunnickliff, 2012-12-06 After being frequently urged to write upon this subject and as often declining to do it from apprehension of my own inability I am at length compelled to take up the pen however unqualified I may still feel myself for the task William Withering M D I have yet to find a description or a quote that better summarizes my initial ambivalence towards embarking on such an endeavor as participating in putting together this monograph The impetus for The Red Cell has been a simple genuine Membrane A Model for Solute Transport desire to bring together an authoritative account of the state of the art and knowledge in the red cell membrane transport field In particular it seems important to emphasize the pivotal role the red cell has played for several decades in the discovery and the elucidation of mechanisms of plasma membrane transport processes It is only with such knowledge that we can hope to push ahead and make progress in this exciting multifaceted area Eventually one hopes to not only further our knowledge of red cells but apply the newly gained insights to any other of the plasma membrane cell with the common denominator In this compendium of reviews the reader will find that the term model will take on a variety of gists and meanings In some chapters the red cell has been chosen as a model membrane solely on the basis of its preeminent design and simplicity

**Red Cell Membrane Transport in Health and Disease** Ingolf Bernhardt, J. Clive Ellory, 2013-04-17 The red cell has been a focus for scientific and medical investigation since the earliest times A higher erythrocyte sedimentation rate was associated with diseases usually pyrexias before the thermometer was invented Furthermore ever since the early observers Swammerdam and Leeuwenhoek saw discrete corpuscles in samples of blood using the first microscopes there has been a significant scientific interest in the structure and function of red blood cells The later discovery that red cells were not spherical but biconcave discs introduced a scientific puzzle which is still not completely resolved today and identified the need for a detailed knowledge of the plasma membrane composition and structure and its interaction with the cytoskeleton Important concepts like the lipid bilayer together with its more recent refinement as asymmetric in phospholipid composition led to the identification of translocases involved in actively maintaining its composition Understanding the mechanics of red cell deformation as these biconcave discs traverse

capillaries was advanced by the pioneering work of Rand and Burton in the Sixties and progressed by Evans Skalak and others Based on the bilayer couple hypothesis the shape changes that are possible for a human red cell from echinocyte to stomatocyte were described by Sheetz and Singer in the Seventies in terms of alterations in the individual halves of the bilayer Certain clinical conditions are associated with obvious changes in red cell morphology

**The Red Blood Cell**  
Douglas Surgenor, 2012-12-02 The Red Blood Cell Second Edition Volume I provides information pertinent to red blood cells which is the most intensely studied human tissue This book reviews the basic biomedical knowledge about the circulating red blood cells Organized into 13 chapters this edition starts with an overview of the discovery of red blood cells which results in the growth of knowledge in the areas of clinical disease and therapeutic efforts This book then discusses the significant functions of the red blood cells which exists basically to transport the respiratory gases Other chapters examine the red blood cell s capacity for protein synthesis and its ability to diversify its function This book discusses as well the progress in the structural analysis of lipids The final chapter deals with the capacity to store red blood cells frozen for long periods with high yield of viable physiological functional cells after post thaw processing Scientists physicians teachers researchers and students will find this book extremely useful

**Erythrocyte Membranes 3** Walter C. Kruckeberg, 1984 Red Cell Membrane: Structure and Function Graham A. Jamieson, Tibor Jack Greenwalt, 1969 **Red Cell Membranes, a Methodological Approach** J. Clive Ellory, J. D. Young, 1982 Mechanochemistry of the Red Cell Membrane and Membrane Protein 4.1 Dennis Edward Discher, 1993 Red Cell Shape M. Bessis, R. I. Weed, P. F. Leblond, 2012-12-06 This monograph is a collection of invited contributions from a group of investigators who share a common interest in the interrelationships between the shape structure and functional characteristics of normal and pathologic erythrocytes Most of the authors participated in a workshop on red cell shape held in June 1972 at the Institute of Cell Pathology Hopital de Bicetre Paris We hope that these various contributions on the physiology pathology and ultrastructure of red cell shape will be useful and stimulating for other investigators interested in the correlation of shape and structure with the biochemistry and biophysics of the red cell The text is divided into four sections Section I deals with red cell shape including the presentation of a rational descriptive nomenclature and a discussion of post splenectomy changes Section II deals with biochemical factors that underlie the discocyte echinocyte crenated and discocyte stomatocyte cup shaped transformation This section includes discussions of plasma factors and of the biochemical dynamics of erythrocyte lipids and consideration of the effects of such factors as cellular ATP calcium aging and various chemical agents as determinants of shape Section III which deals with biophysical measurements includes studies of the deformability of cells of different shapes descriptions of ways to define precisely the geometric dimensions of the red cell under various circumstances and a model of membrane structure which is proposed to account for the dimensions of red cells that undergo shape change

**Red Cell Membranes**  
Stephen Byron Shohet, Narla Mohandas, 1988 *An Elastic Network Model of the Red Blood Cell Membrane Skeleton* Janet

Cooke Hansen,1996     **The effect of streptolysin O on the rabbit red cell membrane** Terry De Wayne Oberley,1973  
    *The Red Cell* George J. Brewer,1978 This volume is a compilation of recent reports on the state of red cell research The  
chapters are written by a diverse group of scientists and provide interdisciplinary coverage on a variety of subjects  
concerning the red cell     **Permeability and the Nature of Cell Membranes** ,1940     **The Biology of the Blood-cells**  
**with a Glossary of Hæmatological Terms: for the Use of Practitioners of Medicine** Oskar Cameron Gruner,1914  
    *The Erythrocyte and the Action of Simple Haemolysins* Eric Ponder,1924     British Medical Journal ,1930     **The**  
**Medical Reporter** ,1895

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