

Cell Membrane Structure and Function

http://www.biologycorner.com/APbiology/cellular/notes_cell_membrane.html

The Plasma Membrane

--the fluid mosaic model (S.J Singer)
-- semi-permeable
--fluid portion is a double layer of phospholipids, called the phospholipid bilayer

Jobs of the cell membrane

- Isolate the cytoplasm from the external environment
- Regulate the exchange of substances
- Communicate with other cells
- Identification

The Plasma Membrane is also called the **Phospholipid bilayer**

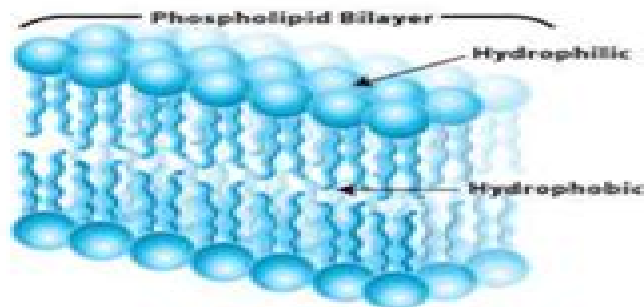
Phospholipids contain a hydrophilic head and a nonpolar hydrophobic tail

Hydrogen bonds form between the phospholipid "heads" and the watery environment inside and outside of the cell

Hydrophobic interactions force the "tails" to face inward

Phospholipids are not bonded to each other, which makes the double layer fluid

Cholesterol embedded in the membrane makes it stronger and less fluid



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EE Bittar (Ed)

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beneficial The Structure of Biological Membranes Philip L. Yeagle, 2004-06-28 Recent research has provided an abundance of new information on membrane biochemistry Now more than ever it is essential to update our current understanding of membrane structure and function to fully appreciate and apply these findings Completely revised and updated to reflect advances in the field *The Structure of Biological Membranes Membrane Structure and Function, Volume 4* EE Bittar (Ed), 1981 *The Membranes of Cells* Philip Yeagle, 1993 In this new edition of *The Membranes of Cells* all of the chapters have been updated some have been completely rewritten and a new chapter on receptors has been added The book has been designed to provide both the student and researcher with a synthesis of information from a number of scientific disciplines to create a comprehensive view of the structure and function of the membranes of cells The topics are treated in sufficient depth to provide an entry point to the more detailed literature needed by the researcher Key Features Introduces biologists to membrane structure and physical chemistry Introduces biophysicists to biological membrane function Provides a comprehensive view of cell membranes to students either as a necessary background for other specialized disciplines or as an entry into the field of biological membrane research Clarifies ambiguities in the field

Membrane Structure and Function, Volume 3 EE Bittar (Ed), 1980 **The Plant Plasma Membrane** Christer Larsson, Ian M. Moller, 2012-12-06 The plasma membrane forms the living barrier between the cell and its surroundings For this reason it has a wide range of important functions related to the regulation of the composition of the cell interior and to communication with the cell exterior The plasma membrane has therefore attracted a lot of research interest Until the early 1970 s it was only possible to study the plasma membrane in situ its structure e g by electron microscopy and its function e g by uptake of radioactively labeled compounds into the intact cell or tissue The first isolation of plant protoplasts by enzymatic digestion of the cell wall in the early 1970 s was an important step forward in that it provided direct access to the outer surface of the plasma membrane More importantly T K Hodges and R J Leonard in 1972 published the description of a method by which a fraction enriched in plasma membranes could be isolated from plant tissues using sucrose gradient centrifugation As a result the 1970 s saw a leap forward in our understanding of the structure and function of the plasma membrane In 1981 S Widell and C Larsson published the first of a series of papers in which plasma membrane vesicles of high yield and purity were isolated from a wide range of plant tissues using aqueous polymer two phase partitioning

Concepts of Membrane Structure Ronald Aloia, 2012-12-02 *Membrane Fluidity in Biology Volume 1 Concepts of Membrane Structure* covers membrane properties influenced by alterations in membrane lipid compositions and other organizational parameters that are encompassed by the term fluidity This book is composed of eight chapters that discuss significance of fluidity changes in both normal and pathological cellular functions This book starts by describing membrane structural organization and composition and arrangement of the molecular components of cell membranes This is followed by discussions on structural properties of lipids and role of nonbilayer lipid structures in membrane fusion The methodological

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to the Second Edition RESEARCH INTO MEMBRANE ASSOCIATED PHENOMENA HAS EXPANDED VERY greatly in the five years that have elapsed since the first edition of *Biological Membranes* was published. It is to take account of rapid advances in the field that we have written the present edition. There is now general acceptance of the fluid mosaic model of membrane structure and of the chemiosmotic interpretation of energetic processes and our attention has shifted from justifying these ideas to explaining membrane functions in their terms. Much more information has become available concerning the role of the plasma membrane in the cell's recognition of and response to external signals and this is reflected in the increased coverage of these topics in the book. The general form of the book remains the same. As before a list of suggested reading sub-divided by chapter is provided and this has been expanded to include a greater proportion of original papers. The book is still primarily designed as an advanced undergraduate text and also to serve as an introduction for post graduate workers entering the field of membrane research. We have taken cognizance of the comments of many reviewers, colleagues and students on the first edition and thank them for their contributions. In particular we wish to acknowledge our colleagues R Eisinger, G D Holman, D W Hough and A H Rose. Dr C R

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Yeagle, 2004-06-28 Recent research has provided an abundance of new information on membrane biochemistry Now more
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