

BIOMEMBRANES

Editor: A. G. LEE

Volume 3 • 1996

RECEPTORS OF CELL ADHESION
AND CELLULAR RECOGNITION

Biomembranes A Multivolume Treatise Receptors Of Cell Adhesion And Cellular Recognition 1996

A. G. Lee



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Receptors of Cell Adhesion and Cellular Recognition A.G. Lee, 1996-06-25 Volume 3 of Biomembranes covers receptors of cell adhesion and cellular recognition. Proteins in the plasma membrane of cells are heavily involved in processes of cell adhesion but such proteins were not actually isolated and characterized until the mid 1970s. Since then application of the methods of molecular biology has led to the recognition of four major classes of cell adhesion molecule CAMs: the immunoglobulin super family, the cadherins, the integrins, and the selectins. A convenient system in which to study the importance of cell adhesion is in blood platelets where aggregation eventually leads to thrombus formation in a process involving a range of surface glycoproteins. Interaction with the extracellular matrix is exemplified by CD44, the receptor for hyaluronan and a complex carbohydrate that is a major component of the extracellular matrix surrounding migrating and proliferating cells. Membrane associated mucins have a variety of effects on cell adhesion. The super family of immunoglobulin related proteins also include the T cell receptors and the major histocompatibility complex MHC which together with the receptors for immunoglobulins, the Fc receptors are of fundamental importance in the processes of immunity. Volume 3 of Biomembranes explores the structures and functions of the molecules involved in these important functions of the cell.

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their functions and their role in cancer and the immune system Emphasis was given to adhesion proteins in the integrin family because of the widespread distribution of this group of molecules and its important role in essentially all eukaryotic biological systems The regulation of integrin genes and their expression are discussed in detail as are specific aspects of the genetics of fibronectin The molecular basis for the regulation of certain integrins the function of these proteins in determining cell adhesion and the consequences of this adhesion for the function of the cells involved are discussed The role of certain integrins in stimulating signal transduction the essential involvement of integrins in conditioning the function of T and NK cells function the heterogeneity of integrins and its biological consequences and the role of cell adhesion molecules in tumor cells invasion and metastases are all extensively analyzed New information was presented on the role of CD44 and splice variants in normal differentiation and tumor progression Biomembranes: Transmembrane receptors and channels,1995

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lab 3 mitosis and meiosis escience labs studocu - Aug 27 2022

web lab 1 intro to science escience lab cell cycle mitosis meiosis what are chromosomes made of compare and contrast mitosis and meiosis both mitosis and meiosis are involved in making new cells

6 4 meiosis teacher s preparation notes biology libretexts - Dec 31 2022

web jul 11 2023 students use model chromosomes to simulate the processes of meiosis and fertilization as they model meiosis and fertilization students follow the alleles of three human genes from the parents body

7 3 modeling mitosis and meiosis activity biology libretexts - May 04 2023

web mar 23 2021 simulate mitosis move the chromosomes through each of the four stages of mitosis draw and label the pop bead chromosomes for one of the phases on a separate sheet it is not necessary to draw each individual bead draw a large circle on the paper to represent the cell and the nucleus with a pencil

lab 8 the modeling and microscopic observation of mitosis and meiosis - Mar 02 2023

web after completing this lab exercise you should be able to identify and describe the stages of the cell cycle mitosis and meiosis recognizing the events that occur during each stage distinguish between mitosis and cytokinesis as they take place in animal and plant cells