
Martini Visual Anatomy and Physiology

Chapter 3

nuclear pores - structures in the nuclear envelope that allow passage of certain materials between the cell nucleus and the cytoplasm

Nucleoplasm - viscous fluid enclosed by the nuclear envelope

Nucleoli - Areas in nucleus with high concentrations of protein and RNA molecules; ribosomes assembled here

cholesterol - component of plasma membrane that "stiffens" the membrane making it less fluid and less permeable

AMPHIPHATHIC - HAS BOTH HYDROPHOBIC AND HYDROPHILIC PORTIONS

ANCHORING PROTEINS - ATTACH THE PLASMA MEMBRANE TO OTHER STRUCTURES AND STABILIZE ITS POSITION

RECOGNITION PROTEINS - DETECTED BY CELLS OF THE IMMUNE SYSTEM

ENZYMES - PLASMA MEMBRANES MAY BE INTEGRAL OR PERIPHERAL PROTEINS

RECEPTOR PROTEINS - BIND TO SPECIFIC EXTRACELLULAR MOLECULES

LIGANDS - ANYTHING FROM A SMALL ION LIKE CALCIUM TO A RELATIVELY LARGE AND COMPLEX HORMONE

CARRIER PROTEINS - BIND SOLUTES AND TRANSPORT THEM ACROSS THE PLASMA MEMBRANE

CHANNELS - INTEGRAL PROTEINS CONTAINING A CENTRAL PORE THAT FORMS A PASSAGEWAY COMPLETELY THROUGH THE PLASMA MEMBRANE

MICROVILLI - FINGER SHAPED EXTENSIONS OF THE PLASMA MEMBRANES THAT INCREASE SURFACE AREA TO FACILITATE ABSORPTION OF

EXTRACELLULAR MATERIALS

MICROFILAMENTS - THE SMALLEST OF THE CYTOSKELETAL ELEMENTS

ACTIN - THE PROTEIN THAT MAKES UP MICROFILAMENTS

TERMINAL WEB - LAYER OF MICROFILAMENTS JUST INSIDE THE PLASMA MEMBRANE AT THE EXPOSED SURFACE OF A CELL

INTERMEDIATE FILAMENTS - LARGEST COMPONENTS OF THE

CYTOSKELETON, EXTEND FROM THE CENTROSOME

CENTRIOLES - ORGANIZE MICROTUBULES IN THE SPINDLE TO MOVE

CHROMOSOMES DURING CELL DIVISION

CILIA - PROPEL FLUIDS OR SOLIDS ACROSS CELL SURFACE AND CAN DETECT ENVIRONMENTAL STIMULI

FLAGELLA - PROPELS SPERM

SMOOTH ENDOPLASMIC RETICULUM - LACKS RIBOSOMES, TUBULAR CISTERNAE

ROUGH ENDOPLASMIC RETICULUM - WHERE MANY NEWLY SYNTHESIZED PROTEINS ARE CHEMICALLY MODIFIED AND PACKAGED FOR THE GOLGI APPARATUS

MEMBRANE RENEWAL VESICLES - ADD TO THE SURFACE AREA OF THE PLASMA MEMBRANE

Anatomy And Physiology Martini Application Manual

Ed Bowker Staff, Staff Bowker, Ed



Anatomy And Physiology Martini Application Manual:

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