
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

Nick Draper, Helen Marshall



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Exercise Physiology Nick Draper, Helen Marshall, 2014-12-05 Exercise Physiology for Health and Sports Performance brings together all the essential human anatomy and applied physiology that students of exercise science physical education and sports coaching need to know Written in a friendly accessible style and containing a wide range of features to help develop understanding this book provides a complete one stop shop for exercise physiology The book is split into two key parts Part One introduces the fundamental principles of nutrition biochemistry cell biology and the energy systems Part Two builds on this foundation by applying the theory to exercise and sports performance in practice With this innovative approach the text enables you to become confident in your knowledge and understanding of energy generation and training principles for all sports Including coverage of exercise in extreme environments and applications of physical

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