

Topic 03: Cells

Plasma Membrane and Associated Structures: Introduction to Plasma Membrane and Associated Structures:

- Cells are the basic functional units of the body. They come in a variety of shapes and sizes. This diversity reflects their diverse functions.

Principal parts of cells:

- Plasma membrane – selectively permeable, gives form, and separates from the external environment
- Cytoplasm and organelles – fluid part of cell and little organs that do the functions
- Nucleus – contains DNA, one or more nucleoli, and directs cell activities



Cell components:

Component	Structure	Function
Plasma (cell) membrane	Membrane composed of double layer of phospholipids in which proteins are embedded. Selectively permeable	Gives form to cell and controls passage of materials into and out of cell Communication
Cytoplasm	Fluid, jellylike substance between the plasma membrane and the nucleus in which organelles are suspended	Serves as matrix substance in which chemical reactions occur
Endoplasmic reticulum	System of interconnected membrane-forming canals and tubules	Smooth endoplasmic reticulum metabolizes nonpolar compounds and stores Ca ²⁺ in striated muscle cells; rough endoplasmic reticulum assists in protein synthesis
Ribosomes	Granular particles composed of protein and RNA	Synthesize proteins
Golgi complex	Cluster of flattened membranous sacs	Synthesizes carbohydrates and packages molecules from the endoplasmic reticulum for secretion; secretes lipids and glycoproteins
Mitochondria	Membranous sacs with folded inner partitions	Release energy from food molecules and transform energy into usable ATP
Lysosomes	Membranous sacs	Digest foreign molecules and worn and damaged organelles
Peroxisomes	Spherical membranous vesicles	Contain enzymes that detoxify harmful molecules and break down hydrogen peroxide
Centriosome	Nonmembranous mass of two rodlike centrioles	Helps to organize spindle fibers and distribute chromosomes during mitosis
Vacuoles	Membranous sacs	Store and release various substances within the cytoplasm
Microfilaments and microtubules	Thin, hollow tubes	Support cytoplasm and transport materials within the cytoplasm
Cilia and flagella	Minute cytoplasmic projections that extend from the cell surface	Move particles along cell surface or move the cell
Nuclear envelope	Double-layered membrane that surrounds the nucleus, composed of protein and lipid molecules	Supports nucleus and controls passage of materials between nucleus and cytoplasm
Nucleolus	Dense nonmembranous mass composed of protein and RNA molecules	Produces ribosomal RNA for ribosomes
Chromatin	Fibrous strands composed of protein and DNA	Contains genetic code that determines which proteins (including enzymes) will be manufactured by the cell

Essential Cell Biology Study Guide

C. Edward Wall



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Barron's how to Prepare for College Entrance Examinations Samuel C. Brownstein, Mitchel Weiner, 1974 A guide to preparing for college entrance examinations with emphasis on study programs for the verbal mathematics and standard written English parts of the SAT Includes practice tests

The New Walford Guide to Reference Resources Ray Lester, 2005 The New Walford highlights the best resources to use when undertaking a search for accurate and relevant information saving you precious time and effort For those looking for a selective and evaluative reference resource that really delivers on its promise look no further In addition to print sources The New Walford naturally covers an extensive range of e reference sources such as digital databanks digital reference services electronic journal collections meta search engines networked information services open archives resource discovery services and websites of premier organizations in both the public and private sectors But rather than supplying a list of all available known resources as a web search engine might The New Walford subject specialists have carefully selected and evaluated available resources to provide a definitive list of the most appropriate and useful With an emphasis on quality and sustainability the subject specialists have been careful to assess the differing ways that information is framed and communicated in different subject areas As a result the resource evaluations in each subject area are prefaced by an introductory overview of the structure of the relevant literature This ensures that The New Walford is clear easy to use and intuitive Publisher

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Media Review Digest C. Edward Wall, 2006

Current Catalog National Library of Medicine (U.S.), 1991 First multi year cumulation covers six years 1965 70

Medical and Health Care Books and Serials in Print, 1997

Essential Cell Biology Bruce Alberts, 2018-11 Cell biology is taught in classrooms around the world to provide students with a firm conceptual grounding in biology This text provides basic core knowledge about how cells work and uses colour images and diagrams to emphasize concepts and aid understanding

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