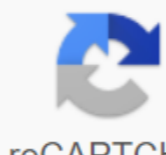


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Ideas about cell structure have changed significantly over the years. Early biologists saw the cells as simple membrane bags containing liquid and several floating particles. Today's biologists know that cells are infinitely more complex than this. There are many different types, sizes and shapes of cells in the body. For descriptive purposes, the concept of a generalized cell is introduced. Includes features of all cell types. The cell consists of three parts: cell membranes, nuclei and, between two, cytoplasm. Inside the cytoplasm lie intricate arrangements of fine fibers and hundreds or even thousands of minuscule, but different structures called organelles. Cell membranes Each cell in the body is closed by a cell (plasma) membrane. The cell membrane separates the material outside the cell, extracellular, from the material inside the cell, intracellular. It maintains the integrity of the cell and controls the passage of the material into and out of the cell. All materials inside the cell must have access to the cell membrane (cell boundary) for the necessary exchange. Cell membranes are a double layer of phospholipid molecules. Proteins in the cell membrane provide structural support, form channels for the passage of materials, act as receptor sites, function as carrier molecules and provide identification markers. The nucleolus nucleus core, formed by a nuclear membrane around the fluid nucleoplasm, is the control center of the cell. Nor do chromatin in the nucleus contain deoxyribonucleic acid (DNA), the genetic material of cells. Nucleolus is a dense region of ribonucleic acid (RNA) in the nucleus and is the site of the formation of ribosome. The nucleus determines how the cell will function, as well as the base structure of that cell. Cytoplasm cytoplasm is a gel-like liquid inside the cell. It's a chemical reaction medium. It provides a platform on which other organelles can operate inside the cell. All functions for cell expansion, growth and replication are carried out in the cytoplasm of the cell. Within the cytoplasm, materials move by diffusion, a physical process that can only work for short distances. Cytoplasmic organelles cytoplasmic organelles are small organs that are suspended in cytoplasm cells. Each organelle type has a specific structure and specific role in the function of the cell. Examples of cytoplasmic organelles are mitochondria, ribosomes, endoplasmic reticulum, golgi apparatus and lysosomes. « Previous (Cell Structure & Function)Next (Cell Function) » A selection of newer and significant publications can be viewed below. Select Publications Dynamin regulates the dynamics and mechanical power of actin cytoskeleton as a multifilament of actin-bundling proteins. 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