

## Free pdf Lives of a cell [PDF]

a cell is defined as the smallest basic unit of life that is responsible for all of life's processes cells are the structural functional and biological units of all living beings a cell can replicate itself independently hence they are known as the building blocks of life the cell is the basic structural and functional unit of all forms of life every cell consists of cytoplasm enclosed within a membrane many cells contain organelles each with a specific function the term comes from the latin word cellula meaning small room most cells are only visible under a microscope cell in biology the basic membrane bound unit that contains the fundamental molecules of life and of which all living things are composed a single cell is often a complete organism in itself such as a bacterium or yeast other cells acquire specialized functions as they mature cells are the basic unit of life in the modern world they are the smallest known world that performs all of life's functions all living organisms are either single cells or are multicellular organisms composed of many cells working together cells are the smallest common denominator of life some cells are organisms unto themselves others are part of multicellular organisms a cell has three main parts the cell membrane the nucleus and the cytoplasm the cell membrane surrounds the cell and controls the substances that go into and out of the cell the nucleus is a structure inside the cell that contains the nucleolus and most of the cell's dna key points all cells have a cell membrane that separates the inside and the outside of the cell and controls what goes in and comes out the cell membrane surrounds a cell's cytoplasm which is a jelly like substance containing the cell's parts cells contain parts called organelles the cell is the smallest unit of life so all cells whether they are unicellular organisms or just a tiny part of a multicellular organism have certain characteristics in common they must contain genetic information and the mechanisms to regulate and use that information to produce its own parts and to reproduce new cells they must be able cells are the most basic unit of life all cells have a membrane that separates them from the outside world although cells are small they are not simple cells contain different components such as the cytoplasm ribosomes and genetic information in the form of dna created by sal khan cells have three parts the membrane the nucleus and the cytoplasm people can think of cells as tiny packages that contain minute factories warehouses transport systems and power plants usually a cell has a single nucleus that contains all of its dna molecules but some such as skeletal muscle cells have more than one nucleus the nucleus protects the cell's dna while controlling all other cellular activities such as cell division growth protein production and cell death a cell is the smallest living unit inside every cell is a host of structures known as organelles every cell has essential structures that are the same like every house has a kitchen sink and a bed but how big and complex they are and how many of them there are is going to vary from cell type to cell type says katherine thompson peer what is the structure of cells all eukaryotic cells consist of three basic parts these are the cell membrane the nucleus and the cytoplasm the cell membrane surrounds the outside of the cell the nucleus is found in the middle of the cell and the cytoplasm fills the gap between the two a cell is the basic unit of life as we know it it is the smallest unit capable of independent reproduction robert hooke suggested the name cell in 1665 from the latin cella meaning storeroom or chamber after using a very early microscope to look at a piece of cork in biology a cell is the structural functional and biological unit of all organisms vocabulary as is often repeated cells are the basic building blocks of all life they are responsible for generating the energy that sustains life eliminating waste and replicating to replace damaged tissues from single celled organisms to humans complex function is possible because of cells and the versatile functions of their parts what is a cell cells are the basic building blocks of all living things the human body is composed of trillions of cells they provide structure for the body take in nutrients from food convert those nutrients into energy and carry out specialized functions cells also contain the body's hereditary material and can make copies of themselves a cell is the smallest living thing in the human organism and all living structures in the human body are made of cells there are hundreds of different types of cells in the human body which vary in shape e g round flat long and thin short and thick and size e g small granule cells of the cerebellum in the brain 4 micrometers up take your cellular knowledge to the next level from organelles to membrane transport this unit covers the facts you need to know about 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