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all cells evolved from a common ancestor and use the same kinds of carbon based molecules learn how cell function depends on a diverse group of nucleic acids proteins lipids and sugars 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 may be a complete organism in itself such as a bacterium or it may acquire a specialized function becoming a building block of a multicellular organism molecules and cells is an international online open access journal devoted to the advancement and dissemination of fundamental knowledge and ground breaking research in all areas of cellular and molecular biology publications cover a broad range of topics of general interest but should be within cell biology appearance 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 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 this text provides an excellent basis for understanding the basics of cell biology but could be updated including the references used interactive features and recent advances of cell biology however used in conjunction with other texts it will be a very useful staple for cell biology courses 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 all cells have membranes the building dna the various blueprints and ribosomes the production line and so are able to make proteins the product let s say we re making toys this article will focus on eukaryotes since they are the cell type that contains organelles cell energy and cell functions cells manage a wide range of functions in their tiny package growing moving housekeeping and so on and most of those functions require energy but cell types can look different and carry out distinct roles within the body for instance a sperm cell resembles a tadpole a female egg cell is spherical and nerve cells are essentially the nucleic acids dna and rna are the principal informational molecules of the cell deoxyribonucleic acid dna has a unique role as the genetic material which in eukaryotic cells is located in the nucleus different types of ribonucleic acid rna participate in a number of cellular activities cell and molecular biology studies the structure and function of the cell which is the basic unit of life cell biology is concerned with the physiological properties metabolic processes signaling pathways life cycle chemical composition and interactions of the cell with their environment 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 cell molecules structure biology cells are largely composed of compounds that contain carbon the study of how carbon atoms interact with other atoms in molecular compounds forms the basis of the field of organic chemistry and plays a large role in understanding the basic functions of cells all organisms are composed of four basic types of molecules that are essential for cell structure and function proteins lipids carbohydrates and nucleic acids figure 3 1 proteins are crucial for cell shape and nearly all cellular tasks including receiving signals from outside the cell and mobilizing intra cellular responses molecular biology of the cell is the classic in depth text reference in cell biology by extracting fundamental concepts and meaning from this enormous and ever growing field the authors tell the story of cell biology and create a coherent framework through which non expert readers may approach the subject all the characteristics of a cell depend on the molecules it contains a molecule is defined as a cluster of atoms held together by covalent bonds here electrons are shared between atoms to complete the outer shells rather than being transferred between them cell parts and their functions within cells special structures are responsible for particular functions for example mitochondria help release energy that the cell can use for other tasks and the nucleus contains the genetic information the cell membrane forms the boundary that controls what enters and leaves the cell robert hooke view citation do all cells look the same cells come in many shapes and sizes some cells are covered by a cell wall other are not some have slimy coats or elongated structures that push and pull them through their environment some cells have a thick layer surrounding their cell molecules and cells is a peer reviewed open access scientific journal of molecular and cellular biology it was established in 1990 as the official publication of the korean society for molecular and cellular biology and is currently edited by rho hyun seong seoul national university

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this text provides an excellent basis for understanding the basics of cell biology but could be updated including the references used interactive features and recent advances of cell biology however used in conjunction with other texts it will be a very useful staple for cell biology courses

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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

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all cells have membranes the building dna the various blueprints and ribosomes the production line and so are able to make proteins the product let's say we're making toys this article will focus on

eukaryotes since they are the cell type that contains organelles

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the nucleic acids dna and rna are the principal informational molecules of the cell deoxyribonucleic acid dna has a unique role as the genetic material which in eukaryotic cells is located in the nucleus different types of ribonucleic acid rna participate in a number of cellular activities

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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

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cell molecules structure biology cells are largely composed of compounds that contain carbon the study of how carbon atoms interact with other atoms in molecular compounds forms the basis of the field of organic chemistry and plays a large role in understanding the basic functions of cells

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all the characteristics of a cell depend on the molecules it contains a molecule is defined as a cluster of atoms held together by covalent bonds here electrons are shared between atoms to complete the outer shells rather than being transferred between them

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cell parts and their functions within cells special structures are responsible for particular functions for example mitochondria help release energy that the cell can use for other tasks and the nucleus contains the genetic information the cell membrane forms the boundary that controls what enters and leaves the cell

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robert hooke view citation do all cells look the same cells come in many shapes and sizes some cells are covered by a cell wall other are not some have slimy coats or elongated structures that push and pull them through their environment some cells have a thick layer surrounding their cell

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