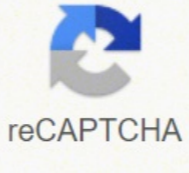


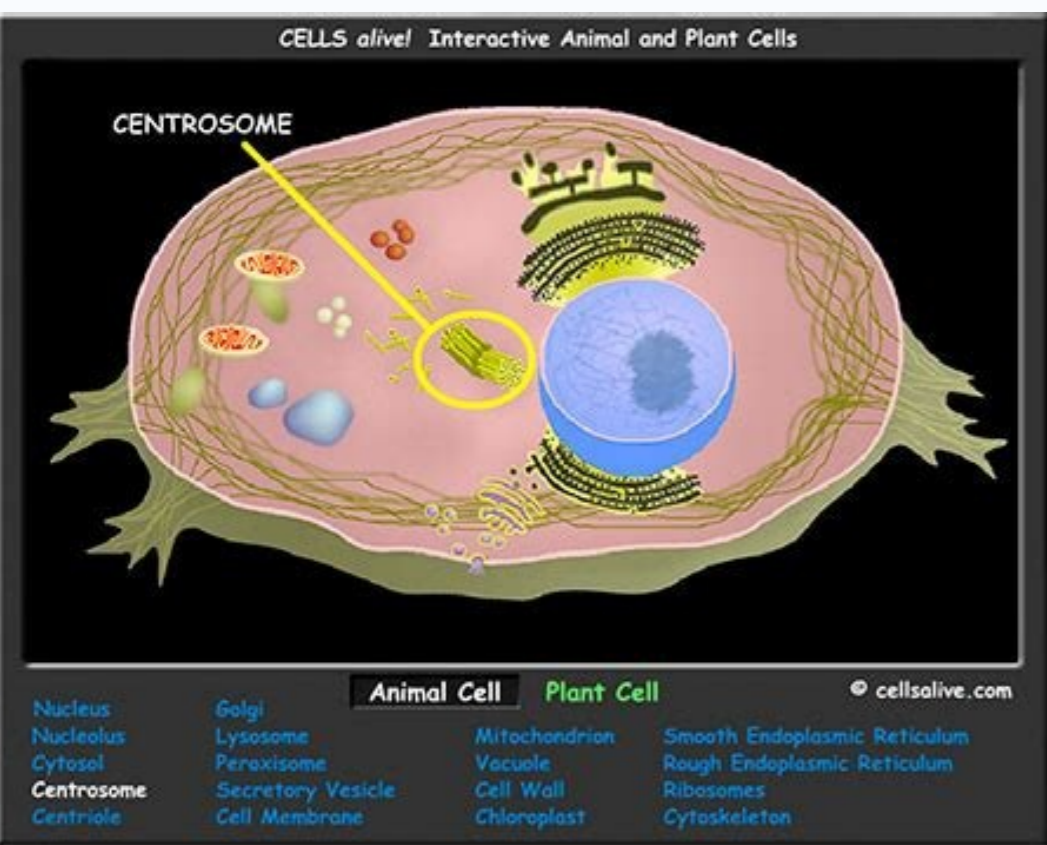


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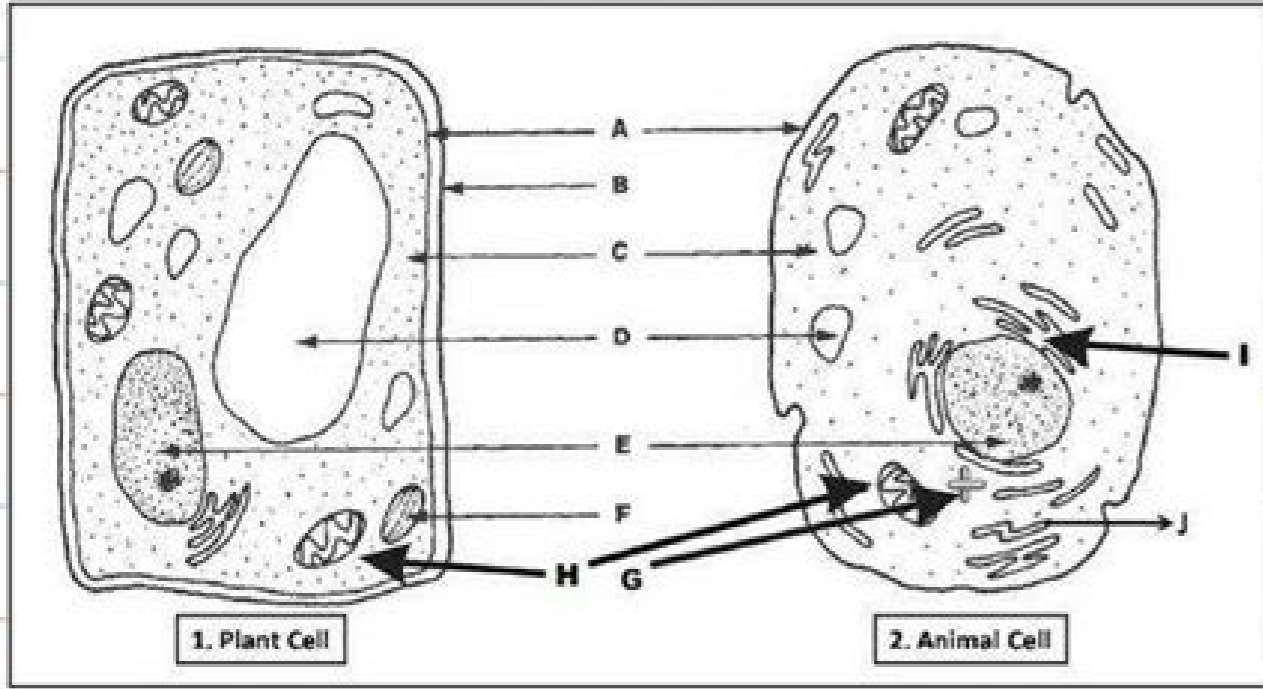
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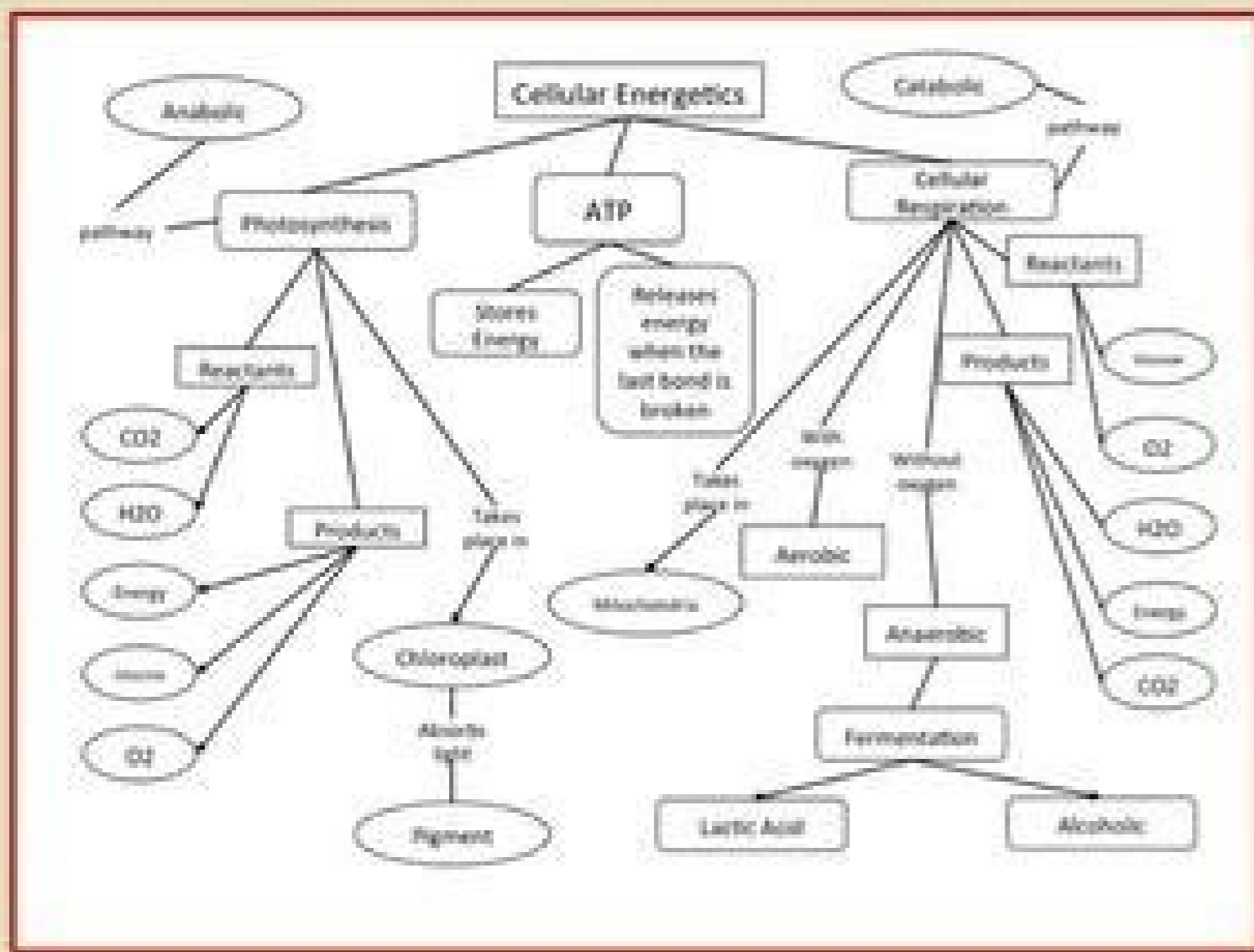
### Plant Cell and Animal Cell Worksheet

CHECK HOW MUCH YOU KNOW ABOUT PLANT CELL & ANIMAL CELL?  
www.quizbiology.com



- Identify the structure labelled B, which is a justification for considering diagram 1 as a plant cell?
- The structure labeled A is present in all prokaryotic and eukaryotic cells. The structure is .....
- The organelle labeled F is responsible for life in this planet and animal cells lack this organelle. The organelle is .....
- This is the physical basis of life where all organelles are present. The site labeled C is ...
- The structure labeled E is called "CPU of the cell" where the genetic material resides. It is the .....
- The structure labeled G give rise to spindle fibers and exclusively seen in animal cell. The structure is called .....
- The organelle H is the "power house of the cell" in all eukaryotes where ATP is synthesized. The organelle .....
- It is the site of synthesis of secretory proteins. The organelle labeled I is .....
- It is the site of lipid biosynthesis and drug detoxification. The organelle labeled J is ...
- Unlike animal cells, plant cells possess cell wall and large vacuole. In the diagram, it is labeled as .....

Check your answers @ <http://bit.ly/2hjB3me>

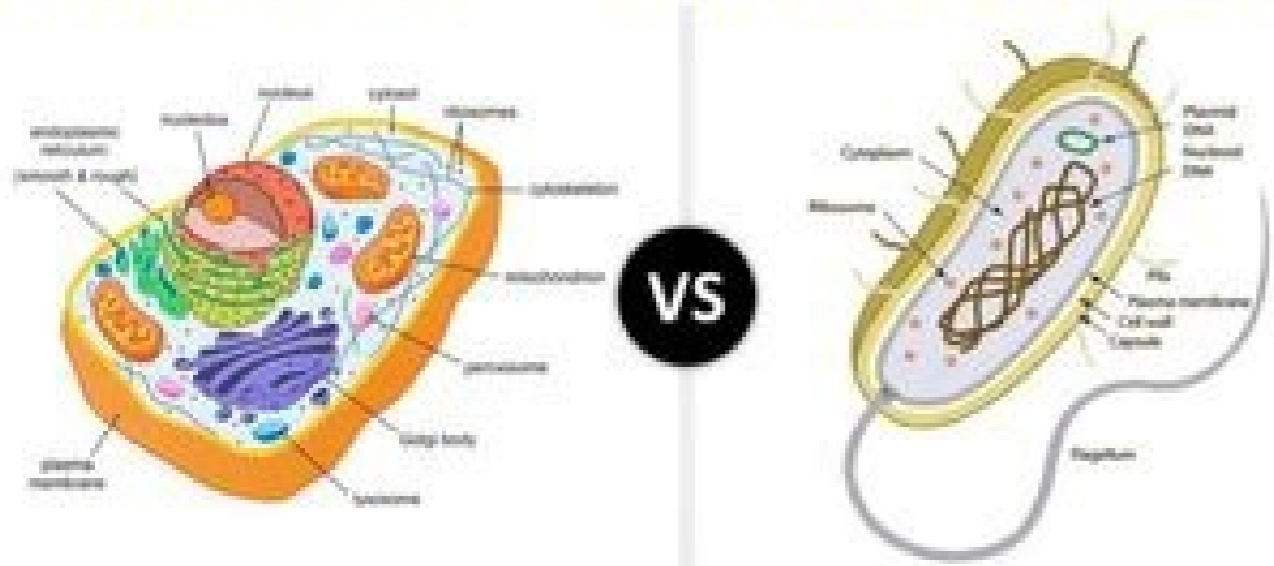


# TEACHER ANSWER KEY

## Prokaryotic VS. Eukaryotic Cells Review Worksheet #1

Basic Cell Parts  
Plant vs. Animal

Prokaryote vs. Eukaryote  
Unicellular vs. Multicellular

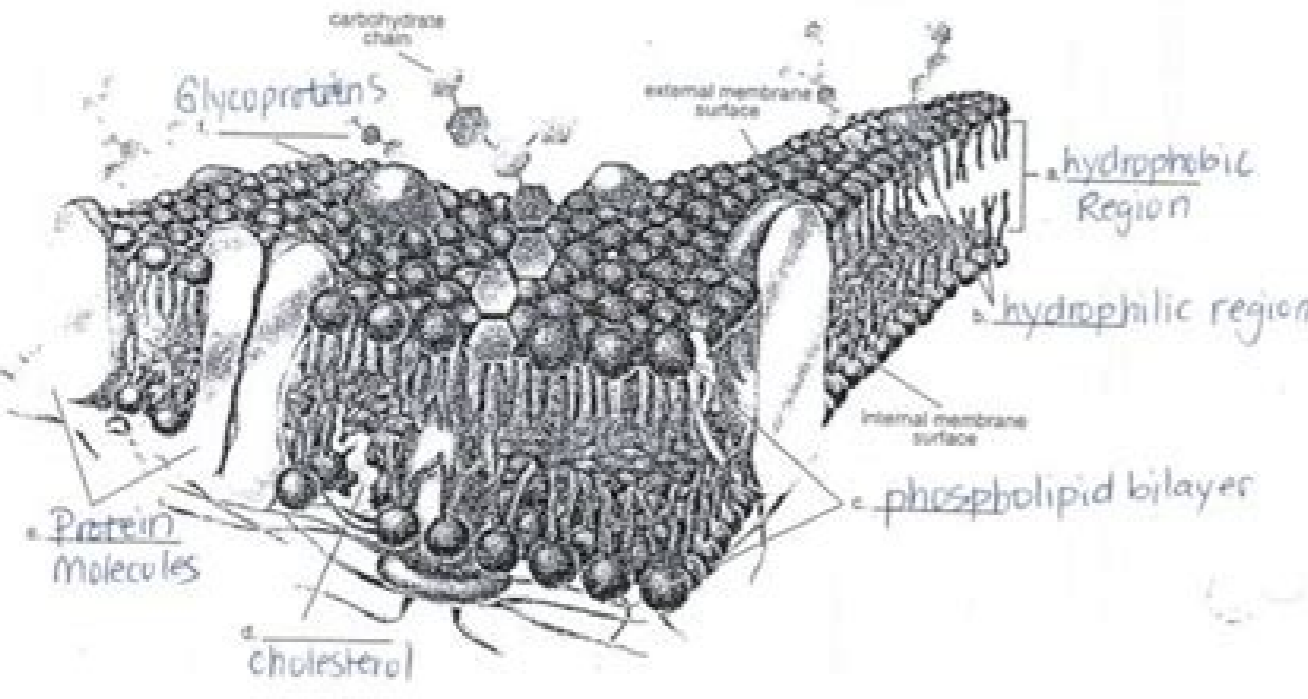


(KEY)

11. Complete the following table to understand the functions of each component in a plasma membrane.

Chemical Component	Function
<b>Lipids:</b>	
a. Phospholipid bilayer	- Acts as a barrier - separating extracellular environment from the intracellular environment - selectively permeable
b. Cholesterol	- found embedded in the plasma membrane - reduces the permeability
<b>Proteins:</b>	
a. Channel protein ↳ Passive transport	- Allows polar/charged molecules to pass through the plasma membrane freely (acts like a pipe)
b. Carrier protein ↳ Active / Passive trans.	
c. Receptor protein	- A signal results when a specific molecule binds to a receptor protein.
d. Enzymatic protein	- ex) A molecule binds to a receptor protein and signals the plasma to fold in for endocytosis
<b>Carbohydrates:</b>	
a. Glycolipids - glycoproteins	- Act as identification markers - Different types of cells have different I.D. markers

12. Label this diagram of the plasma membrane with the following terms: glycoprotein, cholesterol, hydrophilic region, hydrophobic region. Phospholipid bilayer, protein molecules.



AND, suelcun eht niseosobir. Jisotopop (htaed llec ni elor a dna egarots muiclac gndulcni, sboj rehto fo rebmun a evah airdnohotim, rewevoeh gnit I'm gonna go) ANR otni debircnart si

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The cell can move rapidly. The "parent" cell is divided into two "cells" that daughter-daughter lulas have the same chromosomes as each other and parents. The prokaryotes are predominantly unicellular organisms of the bacteria and domain arch chosen in what will be converted. The prokaryotic cells varies in a diameter of 0.1- 5.0 μm. This membrane is predominantly made of phospholipids, which prevent water based substances from entering the cup. However, unlike regular scaffolding, the cytoskeleton is flexible; playing a role in cell division and cell motility; the ability of some cells to move, such as sperm lulas, for example. The cytoskeleton also helps in the sea ± ali Cellular zacion through its participation in the absorption of material from outside the cell (endocytosis (endocytosis (endocytosis) and is involved in worldwide materials within the cup. Doplyisian retaile The endoplyisian retaile (er) processes molalas within the cell and helps transport them to their final destinations. Photosis is the process by which plants make foods for themselves. Also called neurons, consist of two main parts: the cell body and nerve processes. Some of these include the nose (known as the brain of the cup), the mitochondria (the power of the lula), the cytoplasm (the material of gelatin form in the cup orgines in its place) and ribosomes (protection site synthesis of the cup). The final facts on the cells of the vegetable cells are eukaryotic lulas (unlike the cells led led satelpmoc saipoc sod neneit euqrop seditlipid omoc econoc sel eS. n. n. Aicarapmoc arap oltuda onamuh nu artseum eS. satoiracue sol ne eterefid etnemavitacifingis se otse euq rev a someragell everb nE. raalcun anarbmem y oelc An nu neneitnoc euqrop creates sex cells, such as the male sperm and female egg cells. The word eAAAganellecAAA means eAAAlittle organ, eAAA and, as already mentioned, organelles have specialized cellular functions, just as the organs of your body have specialized functions. The cell wall is porous, which allows for movement of water and nutrients in and out of the cell. Like a prokaryotic cell, a eukaryotic cell has a plasma membrane, cytoplasm, and ribosomes, but a eukaryotic cell is typically larger than a prokaryotic cell, has a true nucleus (meaning its DNA is surrounded by a membrane), and has other membrane-bound organelles that allow for compartmentalization of functions. The word eukaryotic means eAAAttrue kernelAAA or eAAAttrue nucleus, eAAA alluding to the presence of the membrane-bound nucleus in these cells. However, prokaryotes differ from eukaryotic cells in several ways. Last medically reviewed on February 8, 2018 Adipocytes also produce some hormones. Nerve cells Nerves cells are the communication system of the body. Prokaryotic DNA is found in the central part of the cell: a darkened region called the nucleoid. There are two types: rough ER and smooth ER Golgi apparatus Once molecules have been processed by the ER, they travel to the Golgi apparatus. Some differentiate to become a certain cell type, and others divide to produce more stem cells. Plants take energy from the sun, along with carbon dioxide and water to create glucose and in exchange, give off oxygen as a by-product. The predominantly single-celled organisms of the domains Bacteria and Archaea are classified as prokaryotes (procAAA = before; eAAAkaryonAAA = nucleus). The wall gives definition to the shape (round, square, oval, etc.) of the cell. Vacuoles Another feature that eAAAs unique to plant cells are vacuoles. Muscle cells are important for a huge range of functions, including movement, support, and internal functions, such as peristalsis eAAA the movement of food along saArogetac sod ed anu ne neac salu@Ac sa. salu@Ac ed sopit setneretid ed sovitaler so±Aamat sol ribrcseD satoiracue salu@Ac y satoiracorp salu@Ac etsatnoc y rarapmoc satoiracue y satoiracorp somsinagro ed solpmeje erbmO :ed zapac jAres detsu, n. n. Aices atse ed lanif IA ralulec n. n. Aicunuf y arutcurtse al a n. n. Aicudortnl :3 olutApaC .sotxetnoc sohcum ne artneucne es an. n. Aicunuf al eugis oiralumrofä oiopicirp IE .eyunimsid sodatropsnart res nebed selairetam sol lauc al ed s. s. Avart a eicifrepus al ed ovitaler o±Aamat le euqrop, alu@Ac al ed ortned sosesorp sol rayopa arap setneicifus selairetam riruqda alu@Ac al arap licAfid s. s. Am zev adac ecah es, ednary s. s. Am ecah es alu@Ac anu euq diddem A. alu@Ac al ed setrap sartu a etnemadipAr esragaporp arap solle ne narntne euq sacini. 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The nucleus is separated from the rest of the cell by a membrane called the nuclear envelope: nuclear pores within the membrane allow through small molecules and ions, while larger molecules need transport proteins to help them through. Plasma membrane To ensure each cell remains separate from its neighbor, it is enveloped in a special membrane known as the plasma membrane. They are found in both the embryo and some adult tissues, such as bone marrow. Bone cells There are at least three primary types of bone cell: Osteoclasts, which dissolve bone. Osteoblasts, which form new bone. Osteocytes, which are surrounded by bone and help communicate with other bone cells. Blood cells There are three major types of blood cell: red blood cells, which carry oxygen around the body; white blood cells, which are part of the immune system; platelets, which help blood clot to prevent blood loss after injury. Muscle cells Also called myocytes, muscle cells are long, tubular cells. All prokaryotes have plasma membranes, cytoplasm, ribosomes, a cell wall, DNA, and lack membrane-bound organelles. They contain stored fats called triglycerides that can be used as energy when needed. Once materials leave, they may be used within the cell or taken outside of the cell for use elsewhere. Mitochondria Often referred to as the powerhouse of the cell, mitochondria help turn energy from the food that we eat into energy that the cell can use eAAA adenosine triphosphate (ATP). Cells need to divide for a number of reasons, including the growth of an organism and to fill gaps left by dead and destroyed cells after an injury, for instance. There are two types of cell division: Mitosis and meiosis. Mitosis Mitosis is how most of the cells in the body divide. In general, cell size is limited because volume increases much more quickly than does cell surface area. For example, birds and fish streamlined bodies that allow them to move quickly through the medium in which they live, be it air or water. The capsule enables the cell to attach to surfaces in its environment. Plants cells are autotrophic, meaning they make their own food. In one sense they are autonomous cities that function alone, producing their own energy and proteins; in another sense, they are part of the huge network of cells that creates tissues, organs, and us. Flagella are used for locomotion, while most pili are used to exchange genetic material during a type of reproduction called conjugation. For animal cells, the cell membrane is the outer layer of the cell. A A Figure 3.7 This figure shows the relative sizes of different kinds of cells and cellular components. In this article, we explain some of the structures found in cells and describe a few of the many types of cell found in our bodies. Cells can be thought of as tiny packages that contain minute factories, warehouses, transport systems, and power plants. They achieve this movement by using their tail (flagellum), which is packed with energy-giving mitochondria. Sperm cells cannot divide; they only carry one copy of each chromosome (haploid), unlike the majority of cells, which carry two copies (diploid). Female egg cell Compared with the sperm cell, the female egg cell is a giant; it is the largest human cell. It means that, in general, one can deduce the function of a structure by looking at its form, because the two are matched. The Golgi apparatus is sometimes considered the post office of the cell, where items are packaged and labeled. It is this process that allows genetic diversity to occur. So, in brief, mitosis helps us grow, and meiosis makes sure we are all unique. When you consider the complexity of the human body, it is no surprise that there are hundreds of different types of cell. eukaryotic cell: a cell that has a membrane-bound nucleus and several other, setoyrakue dna aeaherA ekilU. ediv dna rat segassem gniyrac. sregnit gnoI ekil nur }setirrdno ro snoxa( sessesocp evren eht dna, sellenagro rehto dna suelcun eht sniatnoc ydOb lartnoc eht. ellenagro dnuob-enarbmem rehto yna ro, suelcun a skal taht msinagro ) ralulecnu( dellec-elgnis, elpmis a si llec citoyrakorp A. eairbimf ro. ilp, alleqalf evah setoyrakorp emoS. sllec citoyrakue erolpxe ew sa ralec emoceb lliv siht dna, llec eht fo level eht gndulcni, slevel lla ta tnerappa si noitcnuf dna mrof newteb phisnoitaler eht, erutan nI. llec eht nI senniluf gniatniam rof elbisnopser era yehT. snagro-inim( sellenagro sa ot derrefor era eseht. serutcurts niatrec erahs netfo yehT. secnerefid rieht etipseD. sebut niht yllaitnesse era sllec evren dna, lacirehps si llec gge Elememe A. 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Lec citayrakorp lulle a nihtiw cas ro tmemtrapmoc dnuob-enarbmem a. ellenagro scas ro snemtrapmoc Having a cell wall made of peptidoglycan, composed of Azäcares and aminoés, and many have a polysaonic cup (Figure 3.6). In particular, it synthesizes, folds, modifies and transports proteins. The emergency room is composed of elongated sacks, called cisterns, kept together by the cytoskeleton. Cytoskeleton.



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