

Unit 3: Cell Biology Study Guide

Vocabulary

In your own words, write a definition for each of the following terms in the space provided.

1. **cell**: membrane-covered structure containing all life materials and performing all life processes; the basic unit of living things
2. **unicellular**: an organism made of a single cell
3. **multicellular**: an organism made of many cells
4. **cellulose**: the indigestible carbohydrate that makes up the plant cell wall
5. **cell membrane**: a structure that keeps the cytoplasm inside, allows nutrients in and keeps waste products out
6. **organelle**: a structure within a cell sometimes surrounded by a membrane
7. **cytoplasm**: cellular fluid surrounding a cell's organelles
8. **prokaryote(prokaryotic cell)**: a cell that does not have a nucleus or other membrane-covered organelles (bacterium)
9. **eukaryote (eukaryotic cell)**: a cell that contains a central nucleus and a complicated internal structure
10. **nucleus**: the membrane-covered organelle found in eukaryotic cells that contains DNA and serves as the control center of the cell
11. **cell wall**: a structure that surrounds the cell membrane of plant cells that provides strength and support to the cell
12. **mitochondria(mitochondrion)**: cell organelles surrounded by two membranes that break down food molecules
13. **chloroplast**: an organelle found in plants and algae where photosynthesis occurs
14. **hereditary**: having to do with the passing of traits from parents to offspring
15. **DNA**: Deoxyribonucleic acid, the hereditary material that controls all the activities of the cell; it contains all the information needed to make new cells and proteins
16. **photosynthesis**: the process by which plants capture light energy from the sun and covert it into sugar; the process also produces oxygen from water
17. **microscopic**: very small, needing a microscope to view
18. **chlorophyll**: a green pigment in chloroplasts that absorbs light energy for photosynthesis

Cellular Biology Study Guide

Jianjun Gao



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