

Cell Structure, Function, & Transport

1. Who was the first person to identify and SEE cells? **Robert Hooke**
2. The cell theory applies to which of the following?
a. bacteria b. plants & animals c. multicellular organisms d. all of these
All of these
3. Which cell structure contains the cell's genetic material and control's cell activities?
Nucleus
4. Prokaryotes lack a _____. **Nucleus**
5. What is the name for the thin, flexible barrier around a cell? **Cell membrane**
6. Which types of organisms are prokaryotes? **Bacteria**
7. What is the main function of the cell wall? **Support and protect the cell**
8. Which of the following is NOT found in the nucleus?
a. cytoplasm b. nucleolus c. chromatin d. DNA **Cytoplasm**
9. What type of organism does NOT contain a cell wall? **Animal**
10. Which organelle helps provide cells with energy? **Mitochondria**
11. What is the function of the cell membrane? **Regulate which materials enter and leave the cell.**
12. Diffusion occurs because _____. **Molecules constantly move & collide with each other.**
13. When the concentration of molecules on both sides of a membrane is the same, the molecules will _____. **Move across the membrane in BOTH directions.**
14. Which means of particle transport requires input of energy from the cell? **Active transport.**
15. The diffusion of water across a selectively permeable membrane is called _____. **Osmosis**
16. The cell membrane contains channels and pumps that help move materials from one side to the other. What are these channels made of? **Proteins**
17. Where does the assembly of ribosomes begin? **Nucleolus**
18. True/False A red blood cell placed in pure water will shrink. **Swell (burst)**
19. According to cell theory, all cells come from existing _____. **Cells**

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