

Cells Review

184
total

KEY

Exercise 4 (Modules 4.4 - 4.5)

4B-C

The "Animal Cell" and "Plant Cell" activities on the CD-ROM should help you with this exercise and the rest of the exercises in this chapter.

Examine the diagrams in the text, and then compare the structures of the cells of prokaryotes, plants, and animals by checking off their characteristics below. You may want to revise or refer to this checklist as you complete the chapter.

22

Characteristic	Prokaryotic Cell	Plant Cell	Animal Cell
Prokaryotic structure	✓		
Eukaryotic structure		✓	✓
Relatively large size		✓	✓
Relatively small size	✓		
Extensive internal membranes		✓	✓
Plasma membrane	✓	✓	✓
Cell wall	✓	✓	
Cytoplasm	✓	✓	✓
Ribosomes	✓	✓	✓
Bacterial flagellum	✓		
Nucleus		✓	✓
Rough endoplasmic reticulum		✓	✓
Smooth endoplasmic reticulum		✓	✓
Colgi apparatus		✓	✓
Lysosome			✓
Peroxisome		✓	✓
Mitochondrion		✓	✓
Chloroplast		✓	
Central vacuole		✓	
Cytoskeleton		✓	✓
Flagellum			✓
Centriole			✓

② List the molecular constituents of cell membranes & give their function.

phospholipid - creates bilayer structure
protein
cholesterol

② List all of the cell organelles that are not membrane-bound.

ribosomes, microfilaments, microtubules, centrosomes

3 Cells Packet Answers

JR Anderson

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