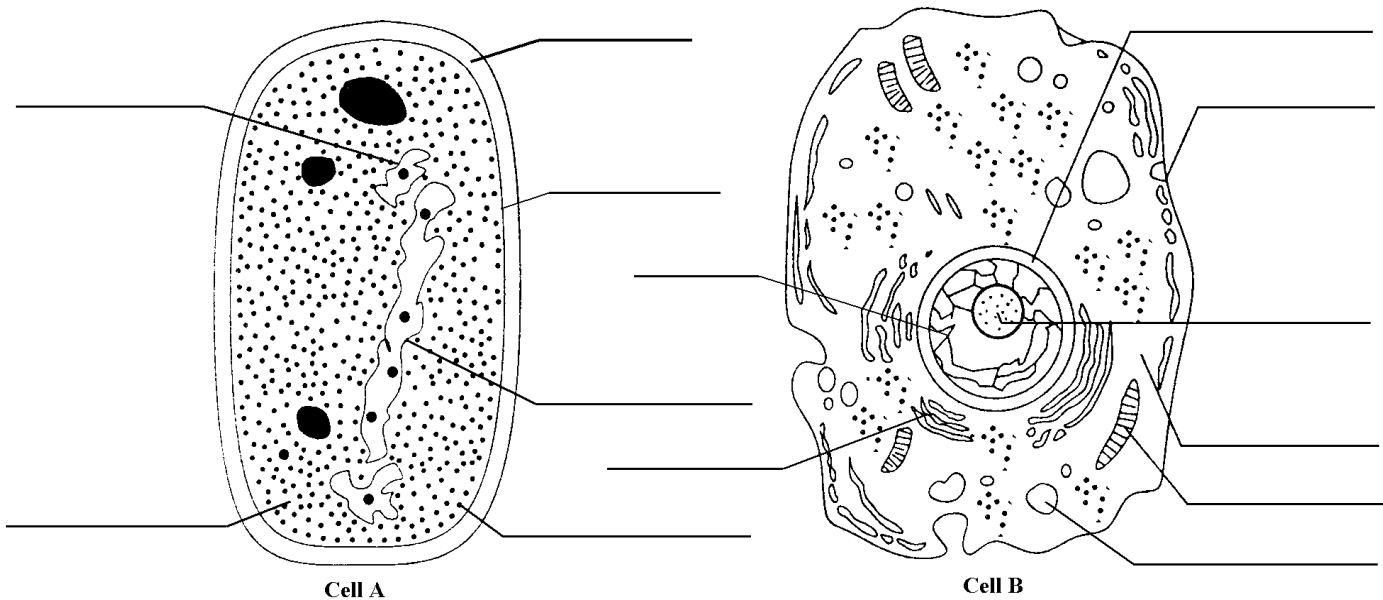


**General Information**

The two cells represented by these drawings are for you to compare basic structures. It is very important for you to realize that the prokaryotic cell is not an accurate scale drawing. If the size of the prokaryotic cell was 10  $\mu\text{m}$ , then the eukaryotic cell would be 10 times larger, or 100  $\mu\text{m}$ . For the sake of seeing some detail inside a bacterial cell, or prokaryote, the size of this cell has been increased to appear to be the same size as the eukaryotic cell.

**Part A Eukaryotic Cell and Prokaryotic Cell**

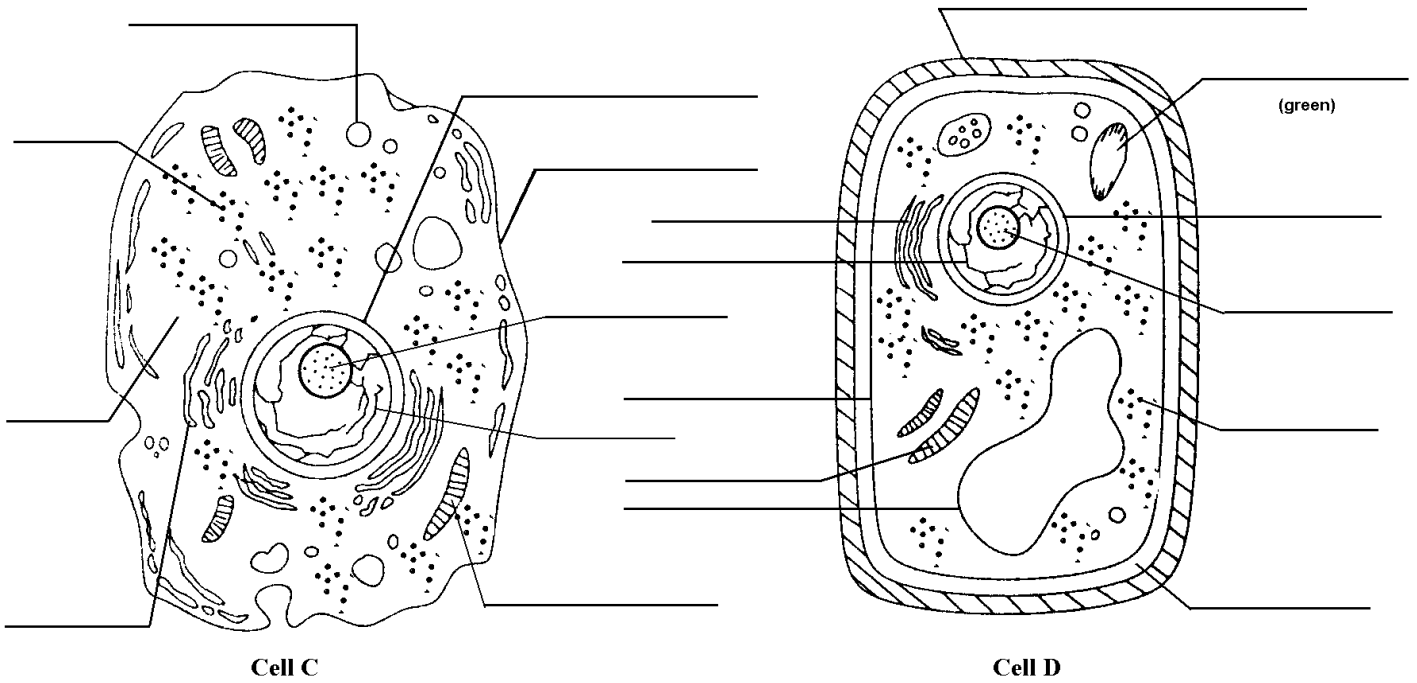
Using the diagrams of a prokaryotic cell and a eukaryotic cell below, answer the following questions.



1. Which diagram represents a prokaryotic cell?
  
2. Using the proper terms, label the structures indicated in the diagrams.
  
3. List two ways in which these cells are similar.
  
4. List two ways in which these cells are different.

**Part B. Animal Cells and Plant Cells**

Using the diagrams of a plant cell and an animal cell below, answer the following questions.



1. Which diagram represents an animal cell? \_\_\_\_\_ A plant cell? \_\_\_\_\_

2. Using the proper terms, label the structures indicated in the diagram.

3. List two ways in which these cells are similar.

4. List two ways in which these cells are different.

5. Are these cells eukaryotic or prokaryotic? Explain your answer.