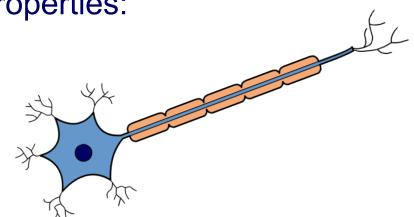


What is a cell?

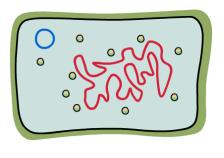
Cells are the basic unit of life. They are small membranebound structures containing several smaller structures called **organelles**.

There are two main categories of cell, each of which have important different structural properties:

 eukaryotic cell, including the cells of animals and plants



 prokaryotic cell, including bacterial cells.





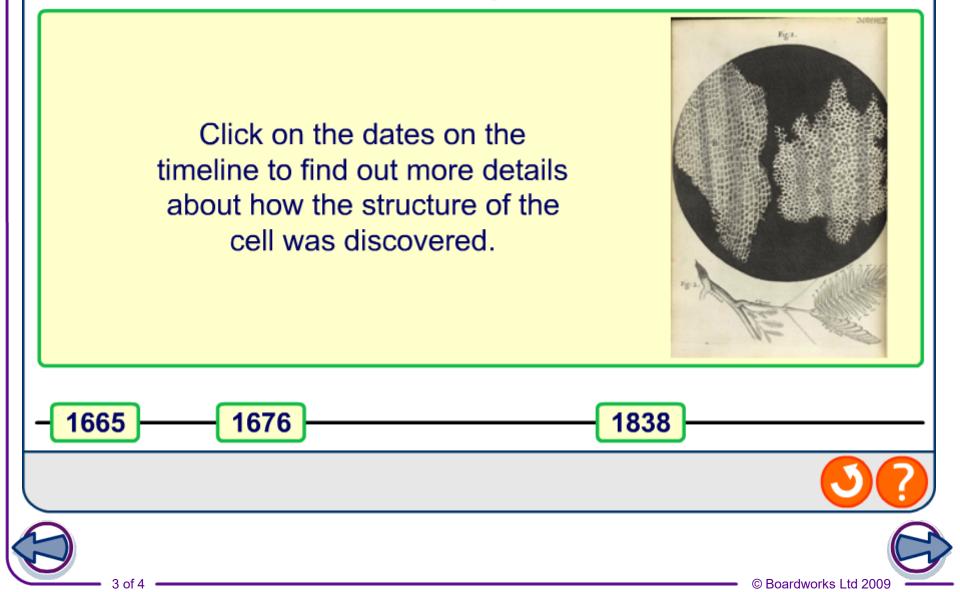


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A brief history



The discovery of the cell

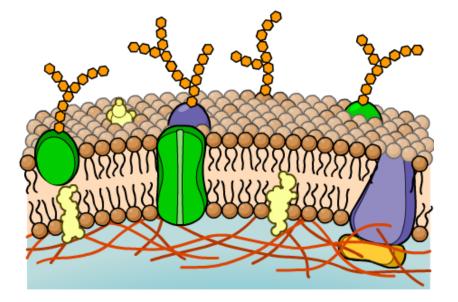


The cell membrane and cytoplasm



All cells, and all true organelles, are contained within a membrane, based on a **phospholipid bilayer**.

The **cell membrane** holds a cell together and controls what enters and leaves the



cytoplasm, as it is a selectively permeable barrier.

The cytoplasm comprises a liquid called **cytosol**, and all the organelles suspended in it (except the nucleus in eukaryotes).

The cell membrane and cytoplasm are universal features of the living cell.

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