

Most **animal cells** (and most human cells) have the following parts:

Nucleus, which controls the activities of the cell

Cytoplasm, in which most of the chemical reactions take place

Cell membrane, which controls the passage of substances into and out of the cell

Mitochondria, which is where most of the energy is released during respiration

Ribosomes, which is where protein synthesis occurs

Chloroplasts, which absorb light energy to make food

A permanent **vacuole** filled with cell sap

Cell wall, made from cellulose which strengths the cell

A bacterial cell consists of **cytoplasm** and a **membrane** surrounded by a **cell wall**; the genes are not in a distinct nucleus; some of the genes are located in circular structure called **plasmids**

Yeast is a **single-celled** organism. Yeast cells have a **nucleus**, **cytoplasm** and a **membrane** surrounded by a **cell wall**

Cells may be specialised to carry out a particular function

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1.1 Cell Structure

In addition to the above, **plant cells** often have:

