

Chapter 4 - Cell membranes and transport

2 types of cell membrane:

- ↳ Cell surface membrane (plasma membrane)
 - Extracellular membrane surrounding the cell
- ↳ Intracellular membrane
 - Eg: Nuclear membrane (surrounds the nuclei)
Tonoplast (surrounds the vacuole)
 - Found within the cells

Functions of cell membrane:

- Separate contents of the cell from their external environment * Extracellular
 - Control substances to enter and leave a cell (nutrients, waste, secretion, ionic gradient) * Extracellular
 - Separate 1 organelle from another * Intracellular
 - Isolate harmful substances from the rest of the cell (lysosomes) * Intracellular
 - Folded into microvilli (↑ surface area) * Extracellular
- ↳ Cell surface membrane follows the fluid mosaic model.
- * Fluid → Phospholipid moves in lateral direction
 - * Mosaic → Proteins are scattered randomly within phospholipid bilayer

↳ Fluid Mosaic Model:

