Functions of membrane proteins

Immobilised enzymes with the active site on the outside. E.g the small intestine

Cell adhesion to form tight junctions between groups of cells in tissues and organs

Cell-to-cell communication. E.g receptors for neurotransmitters at synapses

Channels for passive transport to allow hydrophilic particles across by facilitated diffusion

Pumps for active transport which use ATP to move particles across the membrane

Cholesterol

Cholesterol is a component of animal cell membranes

- It is a component of animal cell membranes
- It is a type of lipid that belongs to the group of steroids
- It is mostly hydrophobic so it's attached to hydrocarbon tails
- One molecule of cholesterol contains hydroxyl (OH) which is hydrophilic

permeability to some solutes.

- Cholesterol in mammalian membranes reduces membrane a solid • Disrupts regular packing of hydrocal hads preventing them from crystallizing and behaving as a solid

- It can help membranes to curve into a concave shape which helps in the formation of vesicles