

#### 4.1 Structure of cell-surface membranes

##### Plasma membranes

- Membranes around and within all cells
- It forms a boundary between the cytoplasm and the environment
- It controls what exits and enters the cell

##### Phospholipids

- Hydrophilic heads point to the outside of the cell surface membranes as they attract water
- Hydrophobic tails point to the centre as they repel water
- They allow lipid-soluble substances to exit and enter the cell
- They prevent water soluble substances entering and leaving the cell
- They make membranes flexible and self-sealing

##### Proteins

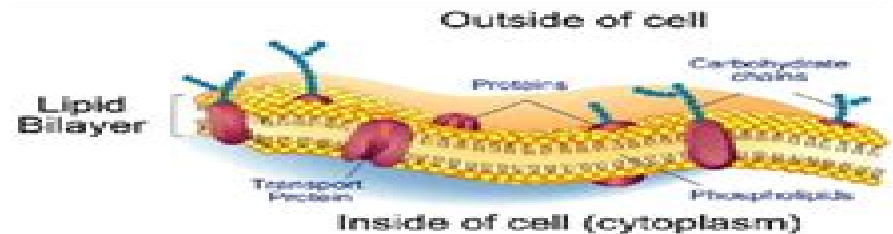
- There are embedded in the phospholipid bilayer in 2 ways:
  - o Some are on the surface of the membrane which act as mechanical support or work with glycolipids
  - o Some go completely across the membrane and become either protein channels or carrier proteins. Protein channels are water-filled tubes for water soluble ions to diffuse across. Carrier proteins bind to ions and change shape to transport the molecules across by active transport
- They provide structural support
- They form cell-surface receptors to identify cells

##### Permeability of cell-surface membrane

- Controls movement of molecules in and out of cell
- Most molecules can diffuse easily because:
  - o They're too big
  - o Not soluble in lipids therefore can't pass through the bilayer
  - o They have the same charge as the protein channels therefore they will be repelled
  - o They're a polar molecule as the hydrophobic tails are nonpolar

##### Fluid-mosaic model of the cell-surface membrane

- Fluid: the individual phospholipids can move therefore the structure is flexible
- Mosaic: because proteins in the bilayer vary in shape, size and pattern



##### Cholesterol

- Add strength
- Homophobic meaning it prevents water loss and loss of dissolved ions
- It pulls together fatty acid tails of the bilayer which limits the movement of phospholipids without making it rigid

##### Glycolipids (carbohydrate + lipid)

- Act as a recognition site
- Help maintain stability of membrane
- Help cells attached to one another to form tissues

##### Glycoproteins (carbohydrate + protein)

- Act as a recognition site
- Help cells attached to one another to form tissues
- Allows cell recognition ex. lymphocytes can recognise an organism's own cell

#### 4.2 Diffusion: the net movement of molecules or ions from high to low concentration until evenly distributed

##### Facilitated diffusion:

- Charged ions, polar molecules and large ones diffused by facilitated diffusion
- Passive process
- Down a concentration gradient
- Two types:
  - o Protein channels:
    - Water soluble molecules only
    - Closes and opens to control what enters and leaves

##### Simple diffusion:

- o Passive diffusion: natural energy
- o Active diffusion: added energy like ATP
- Particles are always in random motion
- Particles are always bouncing off things
- Down a concentration gradient
- Let small, non-polar molecules through

# Level Biology Tutor Notes A

**Y Pai**



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