

Why is it there?

Why is it important?

homeostasis

The cell membrane maintains homeostasis

A simple defect in a cell membrane protein can make a life-or-death difference. In people who have cystic fibrosis, the cell membrane does not work properly.

bilayer

Lipid Bilayer

Cell Transport

Cell Communication

Phospholipids and 4 types of proteins make up the cell membrane

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General Biology Ch. 8

transport

What is passive transport ?

- No energy
- Simple diffusion
- osmosis
- Facilitated diffusion
- Down concentration gradient

What is active transport ?

- Energy
- vesicles
- Sodium potassium pump
- Against concentration gradient

communication

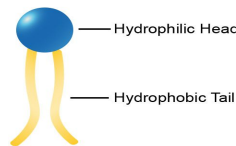
How and why do cells communicate?

Hormone or nerve signals are sent and received by cells

Signals bind to a binding site like lock and key to transfer message

phospholipid

Phospholipid



Cell Communication: send, receive, respond

4 Proteins in the cell membrane

4 proteins

- ★ Cell surface markers- name tag
- ★ Receptor proteins-sense surroundings
- ★ Enzymes- help with biochemical reactions
- ★ Transport proteins-move big substances in and out

Structure of the Cell Membrane

