

## CONCEPT: FACILITATED DIFFUSION

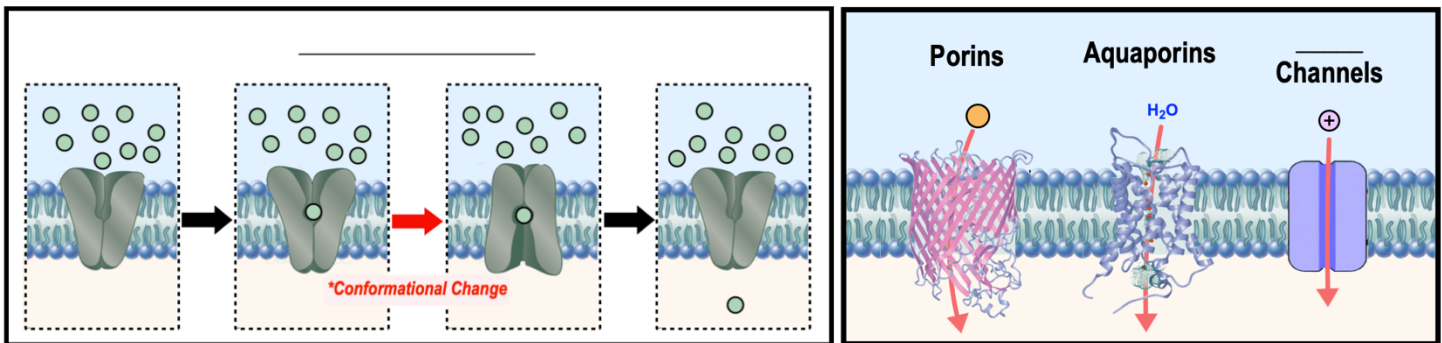
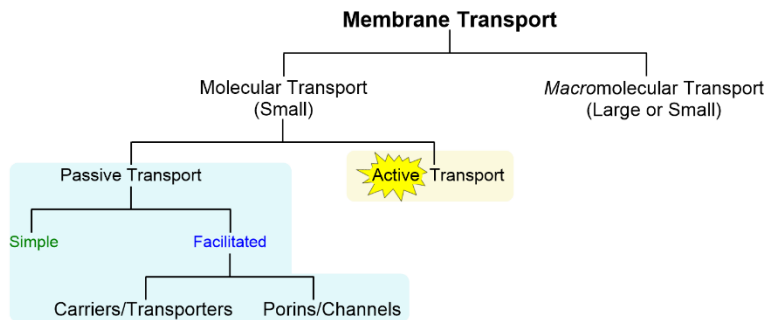
● Recall: *Facilitated Diffusion*: passive, non-energetic diffusion that is *facilitated* by a membrane-\_\_\_\_\_.

□ This integral membrane-protein can either be:

1) a *Carrier/Transporter*: undergoes \_\_\_\_\_ changes to move a solute across a membrane.

2) a *Porin/Channel*: form an obvious *membrane-spanning*-\_\_\_\_\_.

**EXAMPLE:** Carrier/Transporters & Porins/Aquaporins/Ion-Channels.



**PRACTICE:** What type of transport does not require the assistance of a membrane protein?

- a) Simple diffusion.
- b) Facilitated diffusion.
- c) Passive transport.
- d) Symport of more than one molecule.
- e) All of the above require a protein.

**PRACTICE:** Movement of water across a membrane is facilitated by proteins called \_\_\_\_\_:

- a) Annexins.
- b) Aquaporins.
- c) Pores.
- d) Hydroporins.
- e) Selectins.
- f) Symporters.