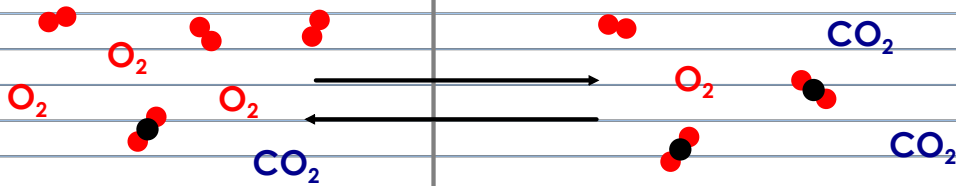


The Cell in its Environment

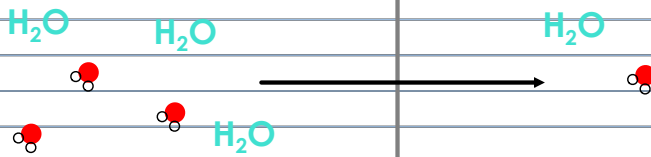
ENVIRONMENT

CELL

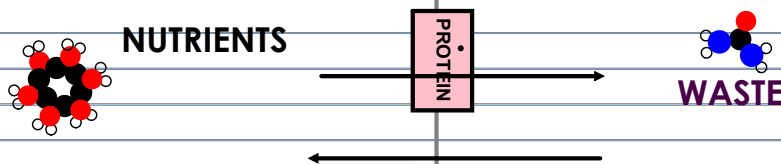
- Molecules must move into/out of cells
- The cell membrane is **selectively permeable**



- Molecules **diffuse** into and out of cells down a concentration gradient (high to low)
(moves from crowded to NOT crowded)
- **Osmosis** is the diffusion of water.



- No energy is needed to diffuse molecules high to low (**passive transport**)
- When energy is used it is called **active transport**.



Big molecules

Low \rightarrow High

(already crowded)