

Diffusion



Moving molecules in organisms

Humans are complex organisms with lots of cells to keep healthy, but even single-celled organisms need to be able to move molecules in and out of their cells.

There are 3 ways to move substances in and out of cells:

- Diffusion
- Osmosis
- Active transport

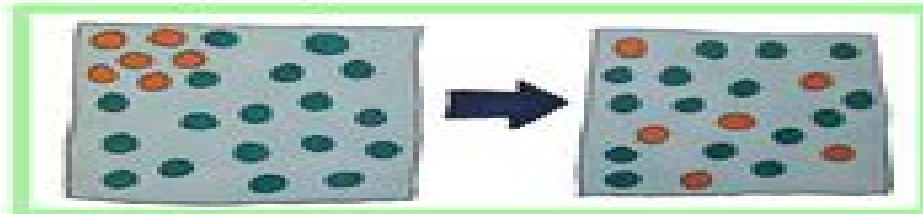
All three are used by humans and plants

Diffusion

Diffusion is the movement of liquids or gases from an area of high concentration to an area of low concentration.

It is passive transport - no energy required.

Imagine you have sprayed some deodorant. The concentration of the smell particles is high next to you, whereas on the other side of the room the concentration is low - it doesn't smell. Over time the smell will spread out across the room. This is diffusion. Particles spread out evenly in a given volume.



This can be described as the net movement, the overall movement. Particles are constantly moving, so don't stay in one area once they are there, there will be movement between the areas of high and low concentration constantly, but overall more movement towards the area of lower concentration

Particles

To understand transport in cells you need to understand particles.

Particles have internal energy and this causes them to vibrate. Liquids have more energy than solids, and gases have more energy than liquids. If you heat up particles, you increase their energy and they vibrate more. This leads to more collisions with each other. Movement of substances in and out of a cell relies on these properties.



TIP

You'll need to know how diffusion works and explain using examples

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E Durkheim



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