

Filtration is the movement of water and solutes across the cell membrane due to hydrostatic pressure from the cardiovascular system. Diffusion is the spreading of something more widely in diffusion particles move from an area of high concentration to an area of lower concentration. In an amoeba, respiration occurs through diffusion. Because the surface area of the amoeba is so small, its respiratory processes can be met by simple diffusion of carbon dioxide between the cytoplasm and surrounding water. Oxygen diffuses in and carbon dioxide diffuses out. Osmosis is the diffusion of water. Without osmosis, filtration would cause water to leave the blood. With osmosis, however, the blood retains enough water because it is hypertonic to tissue fluid and thus causes the water to move into the capillaries. Active transport is where ions of molecules move against their concentration gradient, from an area of lower concentration to an area of higher concentration. In a neuron, charged ions are influenced by any electrical potential difference. Molecules diffuse to their corresponding concentration gradients, causing an electrical potential difference to develop.

Darwin's principle of natural selection accounts for the force of the environment in the evolution of a population. Darwin's theory explains that those with adaptive variations favorable in a given environment have better possibilities of surviving and leaving offspring. Thus, broader leaves, taller giraffes, faster predators, or better camouflaged prey all have adaptations to promote survival. This survival power for increased lifespan yields increased reproductive fitness, the individual's ability to pass its genes onto future generations. Natural selection shows that in a species population with small differences between individuals, some of those differences give survival advantages, and others give survival disadvantages. The members of the population with survival advantages would tend to outbreed the less advantaged members, leading to a shift towards that advantage being norm for the population. The merger of these principles with genetics came with the understanding of mutations. Mutations are changes in a gene and the raw material for evolution. Without a source of change a population cannot evolve. For example, if the only form of an eye color gene were dark, "B", all members of the population would be homozygous for "B", BB. All mating would be BB X BB and produce homozygous organisms with dark eye color. If "B" dominant gene mutates to a recessive "b" then there is an eye color alternative. A mating two heterozygous organisms, Bb X Bb has a 25% chance of producing blue-eyed offspring, bb. If blue eyes are adapted against the environment, blue-eyed individuals would survive longer. Over a long period of time only blue-eyed individuals will survive, leaving only blue-eyed individuals in the gene pool.

In a plant and animal lifecycle both mitosis and meiosis occur. Meiosis makes only sex cells while mitosis makes everything but sex cells. Meiosis reduces the chromosomal number by half while mitosis does not change the chromosomal number at all. Meiosis cells are for only sexual reproduction and mitosis cells are responsible for cellular respiration and general growth of the body. Two haploid meiosis cells combine to create a diploid cell during sexual reproduction of an organism. That diploid cell then splits during the process of mitosis.

A saltwater bony fish is hypotonic with respect to its environment. It is constantly losing water to the environment at the gills. These fish need to drink a lot, and they excrete the excess salt. You can expect them to excrete small amounts of highly concentrated urine, or have glands which pump out salt, or both. A freshwater fish is hypertonic with respect to its environment. It is constantly gaining water

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