

4 Bioenergetics

Photosynthesis	The reaction that plants use to make food: Water + carbon dioxide --> oxygen + glucose
Limiting factor	Something that is stopping photosynthesis from happening any faster. It could be light, heat or carbon dioxide.
Aerobic respiration	The reaction in all organisms that releases energy: oxygen + glucose --> Water + carbon dioxide
Anaerobic respiration	Respiration without oxygen. In humans: glucose --> lactic acid In yeast: glucose --> ethanol + carbon dioxide
Oxygen debt	The amount of oxygen needed after exercise to break down lactic acid
Metabolism	The sum of chemical reactions in the body. This includes chemical reactions which involve breaking down (i.e. respiration) and reactions which involve synthesis of new molecules
Protein	Molecules made of glucose and nitrates
Cellulose	The material in plant cell walls, it is made of glucose
Starch	Found in the roots of plants, it is made of glucose