## Glossary

- **Aldehydes:** Any of a class of organic compounds containing the group –CHO, which yields acids when oxidized and alcohols when reduced.
- **Biomolecules:** A biomolecule is any organic molecule that is produced by a living organism, including large polymeric molecules such as proteins.
- **Carbohydrates:** a group of organic compounds that includes sugars, starches, celluloses, and gums and serves as a major energy source in the diet of animals. These compounds are produced by photosynthetic plants and contain only carbon, hydrogen, and oxygen, usually in the ratio 1:2:1.
- **Covalent linkage:** A **covalent bond** is the chemical bond that involves the sharing of pairs of electrons between atoms
- **Cyanobacteria:** Cyanobacteria, also known as blue-green bacteria, blue-green algae, and Cyanophyta, is a phylum of bacteria that obtain their energy through photosynthesis. The name "cyanobacteria" comes from the color of the bacteria.
- **Emulsion:** A fine dispersion of minute droplets of one liquid in another in which it is not soluble or miscible.
- Heterotrophs: An organism that cannot synthesize its own food and is dependent on complex organic substances
- **Hydrogenase:** An enzyme in certain microorganisms that catalyzes the hydrolysis or reduction of a substrate by molecular hydrogen.
- **Hydrolysis:** The chemical breakdown of a compound due to reaction with water.
- Lipids: Any of a class of organic compounds that are fatty acids

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or their derivatives and are insoluble in water but soluble in organic solvents.

- **Metabolites**: **Metabolites** are the intermediates and products of metabolism. The term **metabolite** is usually restricted to small molecules
- **Photosynthesis:** The process by which green plants and some other organisms use sunlight to synthesize foods from carbon dioxide and water.
- **Proteins:** a group of complex organic macromolecules that contain carbon, hydrogen, oxygen, nitrogen, and usually sulfur and is composed of one or more chains of amino acids.
- **Prototype**: A first or preliminary model of something, esp. a machine, from which other forms are developed or copied.
- **Polar molecule**: A molecule having a permanent electric dipole moment.
- **Homeostasis:** The tendency toward a relatively stable equilibrium between interdependent elements, esp. as maintained by physiological processes