

BIOCHEMISTRY



Lesson 1. Biochemistry: An Introduction

LESSON OUTCOMES:

At the end of the lesson, you should be able to:

- familiarize yourself with the subject;
- have an idea about the different macromolecules;
- define monomers and polymers; and
- recall past ideas and learnings on matter and cells.

Biochemistry: What is it?

- Biochemistry is also called Biological Chemistry, and it is a combination (amalgam) from two root words: "bio" and "chemistry".
 - "bio" comes from the Greek word *bios* which means life.
 - "chemistry" comes from the Greek word *chemieia* which means to cast together.

Based on these, we can define biochemistry as the study of the chemical processes in living organisms.

- **Biochemistry** teaches us how the biological molecules like carbohydrates, proteins, lipids, and nucleic acids give rise to the multitudes of chemical processes in the living cell, which in turn gives rise to the complexity of life.
- Biochemistry in broad terms is the study of the chemical composition of the living matter and the biochemical processes that underlie life activities during growth and maintenance. (Singh, 2004)
- Biology is the study of living things. The father of biology is Aristotle.
- There is no universally agreed upon Father of Chemistry, but there are two known scientists heralded as the father of Chemistry: Jabir Ibn Hayyan as the "Father of Early/Arabic Chemistry" while Antoine Lavoisier is known as the "Father of Modern Chemistry".
- The term biochemistry was first introduced to us by a German scientist named Carl Neuberg in 1903. He is referred to as the "Father of modern Biochemistry".

Biochemistry: The Basics

- Monomers and polymers are the structural basis in which the four main macromolecules of biochemistry are based on.
 - Monomers are smaller micro molecules that are put together to make macromolecules.
 - Polymers are combination of two or more monomers that are synthesized through a process called *dehydration synthesis*.
- The large molecules necessary for life that are built from smaller organic molecules are called **biological macromolecules** or **biomolecules**. Biological macromolecules are organic, meaning that they contain carbon (with some exceptions, like carbon dioxide). In addition, they may contain hydrogen, oxygen, nitrogen, phosphorus, sulfur, and additional minor elements.
- There are four major classes of biomolecules: **(mnemonic is CeLiPhoNe or CLPN)**
 - Carbohydrates
 - Lipids
 - Proteins
 - Nucleic Acids

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