Proteins & Protein Structure Worksheet

By the end of this packet, you will know the answer to the following questions:

- 1. What elements are proteins made of?
- 2. What is the structure of a protein?
- 3. How are proteins used in the body?

Background Reading:

Overview:

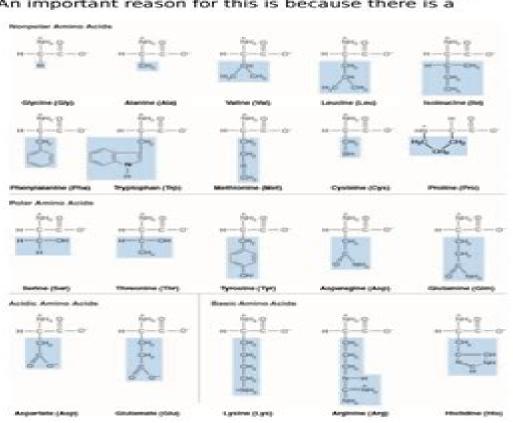
Proteins are a diverse group of macromolecules (see Figure to the right). Proteins are composed of one or more amino acids. There are only 20 different amino acids in the human body! Yet, the genomes (DNA code) of most organisms specify the amino acid sequences of thousands or tens of thousands of proteins.

Amino acids can be theoretically linked to form protein molecules in any imaginable size or sequence. For example, in a protein made of 100 amino acids, there are trillions of possible protein sequences. However, only a small fraction is actually produced in all living organisms. An important reason for this is because there is a

complex set of structural and functional properties of naturally occurring proteins. This selection has evolved over billions of years in response to natural selection.

Proteins serve as structural materials in all living organisms (ex: actin and myosin in animal muscle cells. Proteins are also involved in diverse functions, such as catalysis (speeding up of chemical reactions), metabolic regulation (communication vs hormones), transport (muscle fibers), and defense (antibodies from white blood cells).

To the right you will find the structures of various amino acids found in the human body. **Note**: All amino acids have the elements CHON in their chemical makeups.



Protein Structure Answer Key Packet

DP Hallahan

Protein Structure Answer Key Packet:

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