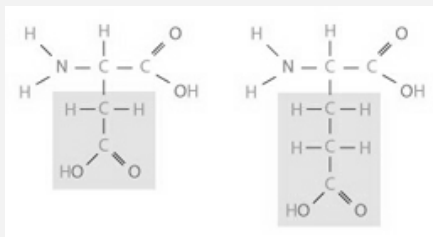


Proteins

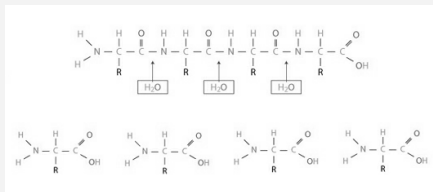
Proteins are the doers of the cell and are made up of amino acids linked together

1. Proteins carry messages around the cell and let messages through the membrane
2. 40% of the protein in the body is **collagen** which is a protein that strengthens the connective tissue in our skin, bones, ligaments, and tendons
3. **Hemoglobin** is a protein that allows red blood cells to transport oxygen

ASP and GLU



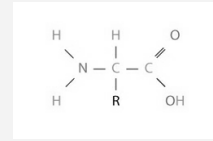
Hydrolysis Applied to Amino Acids



There are two reasons to break down proteins:

1. When you eat proteins (cheese, meat) it is broken down and digested
2. When a protein is not functional, it is broken down and its parts reused

Amino Acids



Amino acids are the building blocks of proteins.

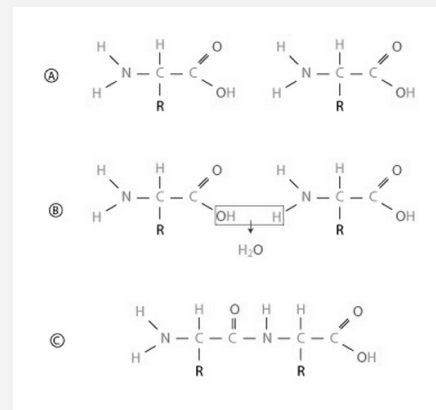
There are 20 different kinds of amino acids.

They have the same basic structure except for the bottom (represented by and "R").

Amino acids have shorter names that are three letters of the whole name:

Ex: ASP--> aspartate, GLU--> glutamic

Dehydration Synthesis Applied to Amino Acids



Amino acids bond to make proteins with dehydration synthesis

Proteins can be from very short to thousands of amino acids long

The protein hemoglobin (carries oxygen in red blood cells) has 146 amino acids



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Published 11th August, 2017.

Last updated 11th August, 2017.

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