

### Protein Functions:

- **Structure**: such as tubules, actins and microtubules
- **Sensors**: Initiate change inside of the cell by relaying information.
- **Enzymes**: can metabolize chemical reactions
- **Regulation**: Proteins can be activators or silencers for genes which allows gene expression to be controlled. They can also modify the function of other proteins and turn them on or off.
- **Signaling**: Proteins act as signals as well as the receptors for communication between cells. They are also the transduction pathways that interpret those signals.

### Protein Structures:

- 1) Primary structure:
  - The linear array of amino acids.
  - There is an **amino end (N-terminus)** and a **carboxyl end (C-terminus)**.
  - Between each amino acid residue is a peptide bond holding it together into a chain
  - The peptide bond is between a C-terminus and an N-terminus, it is a C-N bond

### Proteins are composed of amino acids

- amino acids are attached in a **linear array** to create the **primary structure** of the protein = a **polypeptide**

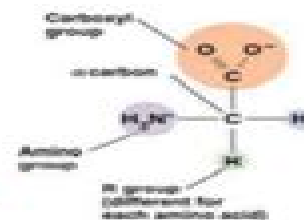


- 20 different amino acids are incorporated into newly synthesized polypeptide

### Amino Acids:

- Each amino acid has a similar structure around the central **Alpha carbon**.
- They all consist of:
  - 1) Hydrogen
  - 2) Amino group (H<sub>2</sub>N<sup>+</sup>)
  - 3) Carboxyl group
  - 4) Variable R-group
- The **variable group of each individual amino acid will dictate that amino acid's properties BUT the accumulated R groups will define the properties of the entire polypeptide.**

### What is an amino acid?



variable R group  
(or side chain)

*It is the properties of the side chains (R) that affect protein structure and function*

### Amino Acid Side Chains:

- The side chains of amino acids will dictate their characteristics and will change how the amino acid is classified.
- These side chains differ in:

# **Biology Study Guide Cell Theory**

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