

Protein Functions

- | | |
|--|---|
| <ul style="list-style-type: none"> - Provide structure for: <ul style="list-style-type: none"> o Cells <ul style="list-style-type: none"> - Cell membrane - Organelles - Cytosol o Body parts <ul style="list-style-type: none"> - Skin & hair - Ligaments & Tendons - Bones - Contribute to immunity <ul style="list-style-type: none"> o Skin barrier o Blood clotting | <ul style="list-style-type: none"> - Act as enzymes <ul style="list-style-type: none"> o Facilitate biochemical processes - Transport proteins in blood and across membranes - Aid in movement <ul style="list-style-type: none"> o Muscle contraction - Some are hormones <ul style="list-style-type: none"> o Regulate biological processes - Help to regulate fluid balance - Provide energy |
|--|---|

Protein hormones: insulin and glucagon

VII. Proteins Provide Structure and Regulation

A. Some have structural roles (proteins found in teeth, skin, hair, cartilage, ligaments, tendons, and bone; involved in growth & maintenance)

- o Example of a structural protein → **is collagen**
 - It means → **"glue producer"**
 - It has great tensile strength, i.e. → **capable of being stretched**. Hence, it is the main component of cartilage, ligaments, tendons, bone, teeth, and skin.
 - Along with **keratin**, it is used in what type of surgeries? **Cosmetic and burn victim surgeries**
 - **WRINKLES**, in part, are caused by the breakdown of collagen that accompanies aging.
 - Collagen also strengthens → **BLOOD VESSELS**
- o Structural proteins also provide structure to individual cells. How? **They are components of cell membranes, cellular fluid, and organelles.**

IB. Some have regulatory roles.

- o Speed up chemical reactions and are used to join substances or break them apart → **ENZYMES**
- o Chemical messengers that regulate body processes → **HORMONES**
- o Some proteins help to **maintain fluid and electrolyte balances**.
 - Help with fluid balance in two ways:
 - a. Able to help hold fluid in the blood because of their **SIZE** & as contributors to the number of **DISSOLVED PARTICLES** in blood. If blood protein levels fall too low → **WATER** leaks out of blood vessels → **EDEMA** (swelling due to the buildup of extracellular fluid in the tissues)
 - b. As membrane transporters → **help to move dissolved particles from one side of the membrane to the other**
 - **Electrolyte balance** → **transports them in/out of the cell**

Student Outlines Part I

SJ Ball



Student Outlines Part I:

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