University of Mosul
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College of Veterinary Medicine
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Lecture title: Biological important of peptides

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Summary In particular, 20 very important amino acids are crucial for life, the structure of a protein determines its function. .Amino acids are imperative for sustaining the health of the human body

Biological functions of amino acids :

- Grow and repair body tissue.
- Make brain chemicals (neurotransmitters).
- Provide an energy source.
- Maintain healthy skin, hair and nails.
- Build muscle.

•Boost immune system.

•Production of hormones

•Structure of muscles

•Human nervous system's healthy functioning

•The health of vital organs

• Normal cellular structure

•The amino acids are used by various tissues to synthesize proteins and to produce nitrogen-containing compounds (e.g., purines, heme, creatine, epinephrine).The nitrogen-containing substrates are used in the biosynthesis of purines, pyrimidines, neurotransmitters, hormones, porphyrins, and nonessential amino acids.

•The carbon skeletons are used as a fuel source in the citric acid cycle, used for gluconeogenesis, or used in fatty acid synthesis.