

Objectives and tasks of BIOCHEMISTRY

Biological chemistry is a field of science concerned with the study of chemical properties of the compounds constitutive of the living organism, their conversions, and the relation of these conversions to the activity of organs and tissues. Starting from this definition, biochemistry may be envisioned as composed of three parts: static biochemistry, chiefly concerned with the analysis of the chemical composition of the living organism; dynamic biochemistry, its major objective being a study of the whole variety of metabolic conversions - of both matter and energy - in the organism; functional biochemistry, primarily concerned with the chemical processes that constitute a basis of various manifestations of vital activity. All these domains - static, dynamic, and functional - are inalienably interrelated and should be considered within the framework of a single entity - the modern biological chemistry.

Student must know:

- main laws of chemistry, describing chemical processes in human organism
- general characteristic of metabolic pathway's in cell
- principals of metabolism regulation, mechanism of hormones action
- biochemistry of nutrition

Student be able to:

- perform simplest laboratorial tests
 - determine of pH-medium of solution
- operate with clinical biochemical equipment.