**BIOCHEMISTRY OF CONNECTIVE TISSUE**

Types and functions of the connective tissue. Main components of the connective tissue: cells (representatives, biological role) and extracellular matrix (structural elements and their biological role).

Fibrilar proteins of the connective tissue (collagen, elastin): the particularities of chemical composition, structure and properties. The peculiarities of collagen biosynthesis, post-synthetic (post-translation) modifications and degradation.

Glucosamine glycans (heteropolysaccharides or mucopolysaccharides) of the extracellular matrix of the connective tissue: main representatives, their structure, biological role. Proteoglycans and lycoproteins, their biological role.

Physiological and pathological modifications of the connective tissue metabolism: age-dependent modifications, acquired disorders (hypovitaminosis C, diabetes mellitus). Genetic disorders: collagenoses, mucopolysaccharidoses, biochemical manifestations.