

**Schedule of the lectures from „Histology I“
for the first-year students of general medicine, school year 2023/2024, summer semester**

1st lecture 09/02/2024	Introduction to the subject of histology; its goals and methods. The position of histology within the medical sciences, the overview of history of histology.
2nd lecture 16/02/2024	Laboratory examination methods in histology and their significance for clinical practice. Composition and principle of light and electron microscope. Histological technique - sampling and processing of samples. Methods of visualization of tissues and histological structures. Histochemistry, immunohistochemistry.
3rd lecture 23/02/2024	Cytology – cell from the histological point of view, morphological features, stainability. Types of cells, ultrastructure, cellular organelles, cellular junctions.
4th lecture 01/03/2024	Lecture of invited guest: doc. RNDr. Ľuboš Danišovič, PhD. – a cellular biologist; Institute of Medical Biology, Genetics and Clinical Genetics, Faculty of Medicine, Comenius University: Tissue cultures, cellular lineages, stem cells – experimental and clinical usage. Cellular cycle, reprogramming of the cells.
5th lecture 08/03/2024	Introduction to general histology; types of tissues, general structural characteristics. Covering and lining epithelia – functional morphology, histological features, occurrence in human body.
6th lecture 15/03/2024	Glandular and sensory epithelia – functional morphology, occurrence, histological features. Modes of secretion.
7th lecture 22/03/2024	Connective tissue – connective tissue proper: cells and intercellular matrix. Types, composition, occurrence and function.
8th lecture 29/03/2024	<i>Holiday – Good Friday</i>
9th lecture 05/04/2024	Connective tissue - blood. Bone marrow and hematopoiesis. Composition and function of peripheral blood.
10th lecture 12/04/2024	Connective tissue – cartilage and bone tissue: types, composition, occurrence and function. Histogenesis of the bones, regeneration of the bone tissue.
11th lecture 19/04/2024	Muscle tissue: functional morphology of cardiac, skeletal and smooth muscle. Histogenesis and regeneration of muscle tissue.
12th lecture 26/04/2024	Nervous tissue: introduction to nervous tissue. Nervous tissue cells - neurons, their functional morphology, degeneration and regeneration. Synapses – types, principles.
13th lecture 03/05/2024	Nervous tissue: nervous tissue cells - glial cells, their functional morphology. Saltatory conduction of nerve impulses. Special histological techniques for nervous tissue imaging.
14th lecture 10/05/2024	Invited lecture of a foreign guest