

Schedule for Anatomy

Academic Year 2019-20, **Third** Semester

WEEK	LECTURES	ANATOMY PRACTICE	HISTOLOGY PRACTICE
1 st Sep 02-06	Anatomy and blood supply of the spinal cord. Fine structure of the grey and white matter. Rexed's laminae and corresponding nuclei. Arrangement of the spinal cord tracts. <i>Prof. Mihály</i>	<i>Injury preventive directives and dissecting room regulations.</i> The facial (frontal) and lateral aspects of the skull. The cranial base: external and internal surfaces.	<i>General information, rules and regulations.</i> Skull The temporal and sphenoid bones. The maxilla and mandible.
2 nd Sep 09-13	Neuroanatomy and blood supply of the medulla oblongata, pons and mesencephalon. Cranial nerve nuclei and the reticular formation. <i>Prof. Mihály</i>	Cerebral hemispheres: gyri and sulci. Blood supply to the brain, the cerebral arterial circle.	Skull Calvaria. Bony nasal and oral cavities. Infratemporal and pterygopalatine fossae.
3 rd Sep 16-20	Diencephalon: organization. Thalamus and hypothalamus. Blood supply to the diencephalon. <i>Prof. Mihály</i>	1st practical assessment The skull. Duplications of the dura mater, meningeal spaces. Vertebral canal, meninges of the spinal cord and spinal cord preparation.	Histology Blood smear (MGG) Red bone marrow (HE) Thymus (HE) Lymph node (HE) Spleen (HE) Palatine tonsil (HE)
4 th Sep 23-27	Anatomy, histology and synaptology of the cerebellum. Neuroanatomy of the cerebellar movement regulation. Morphological and functional bases of the regulation of the blood circulation in the brain: the blood-brain barrier, the CSF. <i>Prof. Mihály</i>	Structure of the brainstem, the fourth ventricle, rhomboid fossa. Exits of the cranial nerves (from the brainstem and the skull).	Histology Sensory nerve ending (HE) Sensory nerve ending (Ag) Spinal cord (HE) Spinal cord (myelin staining) Cerebellum (HE) Cerebellum (Ag) Neocortex (HE) Astrocytes (GFAP IHC) Sensory ganglion (HE)
5 th Sep 30 - Oct 04	Neuroanatomy of the cerebral cortex. The 'module concept' in the cerebral cortex architecture. The limbic system incl. the hippocampus. <i>Prof. Nógrádi</i>	Diencephalon. Lateral and third ventricles. Flechsigs cut. The extreme, external and internal capsules. Basal nuclei (ganglia).	1st MTO Blood, hematopoiesis, lymphatic system, nervous system.
6 th Oct 07-11	Basal forebrain: amygdaloid complex. Basal nuclei and their functions in the movement regulation. <i>Prof. Mihály</i>	Cerebellum: topography, parts and blood supply. Cerebellar nuclei. Cerebellar peduncles. Frontal sections of the brain. Hippocampus and other limbic areas.	CNS seminar Cross-sections of the brainstem, part 1: the fine structure of the medulla, and the pons.

7 th Oct 14-18	Development of the nervous system. <i>Prof. Nógrádi</i>	2nd practical assessment Macroscopic anatomy of the CNS.	CNS seminar Cross-sections of the brainstem, part 2: the fine structure of the midbrain. Blood supply to the brainstem.
8 th Oct 21-25	Anatomy and histology of the eye. Parts and layers of the retina. Blood supply to the retina. Accessory visual structures: eyelids, lacrimal apparatus and extraocular muscles. <i>Prof. Nógrádi</i>	Muscles of neck. Regions of neck: the cervical triangles. Fascial system of the neck. Surface anatomy of the neck. Facial and masticatory muscles. No practice for Grs 4, 5, 6 and 7 will be held, due to the national holiday on Oct 23.	CNS seminar Functional anatomy of the ascending and descending pathways. No seminar for Grs 1 and 2 will be held, due to the national holiday on Oct 23.
9 th Oct 28 - Nov 01	No lecture in the week, due to the autumn break Oct 30 – Nov 01.	Regions of head. Arterial supply, venous and lymphatic drainage of the head and cervical regions. No practice for Grs 4-15 will be held, due to the autumn break.	Histology Hypophysis (HE) Thyroid gland(HE) Parathyroid gland (HE) Adrenal gland (HE) Corpus luteum (HE) Pancreas (HE) No practice for Grs 1, 2, 5, 6, 9, 13 and 14 will be held, due to the autumn break.
10 th Nov 04-08 Written test: Nov 04	Neuroanatomy of the visual pathway. Light reflex of the pupil. Accommodation reflex. Horizontal and vertical gaze control. <i>Prof. Nógrádi</i>	The cranial nerves V and VII: ganglia and peripheral branches. Topography of the orbit.	Histology Eye (HE) Eyelid (HE) Lacrimal gland (HE)
11 th Nov 11-15	Anatomy and histology of the external and middle ears. Anatomy of the inner ear: osseous and membranous labyrinths. <i>Prof. Nógrádi</i>	The cranial nerves VIII, IX, X, XI and XII: ganglia and peripheral branches. Topography of the middle and inner ears.	Histology Finger pad (HE) Hairy skin (HE) Cochlea (HE)
12 th Nov 18-22	Organ of Corti. Fine structures of the cristae and maculae. Auditory and vestibular pathways. <i>Prof. Nógrádi</i>	Cervical plexus. Cervical part of the sympathetic trunk. Organization of the peripheral parasympathetic system in the head. Pterygopalatine fossa. Thyroid gland.	Histology Resting mammary gland (HE) Lactating mammary gland (HE) Placenta (HE) Chicken embryo (HE)
13 th Nov 25-29	Development of the eye and ear. <i>Prof. Nógrádi</i>	3rd practical assessment Regions of the head and neck. Anatomy of the eye.	Recapitulation.
14 th Dec 02-06	The branchial apparatus: formation, development and derivatives of the pharyngeal arches, pouches and grooves. <i>Prof. Nógrádi</i>	Recapitulation.	2nd MTO Endocrine system, sensory organs, skin, mammary gland, placenta, embryo.