**Semester 3, 2016/2017**

[period Autumn 2016]

**Programme of of lectures and practices in histology and embryology**

**for the 2nd year of Dentistry (aZL)**

|  |  |  |
| --- | --- | --- |
| **Education week 2016** | **LECTURES** | **PRACTICES** |
| 19. 09. – 23. 09. | Microscopic structure of the lymphatic organs. Monocyte-macrophage system. | Repetition of tissues and cardiovascular system. |
| 26. 09. – 30. 09. | *Wed 28.9. public holiday* | |
| 03. 10. – 07. 10. | Microscopic structure of respiratory system: Nasal cavity, structure of the larynx and trachea. Structure of the lungs, blood – air barrier. Development of the respiratory system. | Microscopic structure of the lymphatic organs. Slides: thymus, lymphonodus, lien, tonsillae (palatina et lingualis). |
| 10. 10. – 14. 10. | GIT II: General structure of the wall of digestive tube. Microscopic structure of the oesophagus, stomach and intestines. | Microscopic structure of respiratory system. Slides: concha nasi, epiglottis, larynx, trachea, pulmo. |
| 17. 10. – 21. 10. | GIT III: Microscopic structure of the liver,  gallbladder, gall ducts, and pancreas.  Overview of development of the gut. | Microscopic structure of the digestive  system II. Slides: oesophagus, cardia, fundus ventriculi, pylorus, duodenum, intestinum tenue. |
| 24. 10. – 28. 10. | Microscopic structure and development of the urinary system. Nephron - its structure, histotopography, and function. Blood circulation of kidneys. Urinary  passages. Stages in development of  kidneys. | Microscopic structure of the digestive  system III. Slides: intestinum crassum. appendix, anus, hepar, vesica fellea, pancreas. |
| 31. 10. – 04. 11. | Microscopic structure of the male  reproductive system: Testis, excretory genital ducts, accessory genital glands, penis.  Spermato- and spermiogenesis. Composition of the sperm. | Microscopic structure of the urinary  system. Slides: ren, calyx renalis,  ureter, vesica urinalis, urethra feminina, pars cavernosa urethrae masculinae. |
| 07. 11. – 11. 11. | Microscopic structure of the female  reproductive system: Ovary, oviduct,  uterus, vagina, external genitalia.  Ovarian cycle, ovulation, atresia.  Oogenesis. Menstrual cycle. The  menstrual and ovarian cycle – relations. | Microscopic structure of the male  reproductive system. Slides: testis,  epididymis, funiculus spermaticus,  glandula vesiculosa, prostate, penis. |
| 14. 11. – 18. 11. | Development of internal and external  sexual organs. General characteristics of the indiferent stage. | Microscopic structure of the female  reproductive system. Slides: ovarium, corpus luteum, tuba uterina - ampulla, tuba uterina - isthmus, uterus - prolipherative and secretory phases,  vagina, labium minus, placenta, funiculus umbilicalis. |
| 21. 11. – 25. 11. | Microscopic structure, histophysiology and development of endocrine glands: Hypophysis, epiphysis, thyroid gland, parathyroid glands, adrenal gland, and islets of Langerhans. Principles of humoral regulation. |  |
| 28. 11. – 02. 12. | Microscopic structure and  development of the central and  peripheral nervous system. Structure  of gray matters in the CNS: Iso- and  allocortex, cerebellar cortex, spinal  cord. Meninges. Ganglia and  peripheral nerves. Overwiev of  development of the brain and spinal  cord. Histogenesis of the neural tube. | Microscopic structure of endocrine  glands. Slides: hypophysis cerebri,  epiphysis, glandula thyreoidea,  glandula parathyreoidea, glandula  suprarenalis, islets of Langerhans. |
| 05. 12. – 09. 12.  . | Microscopic structure of the ear.  Major structural differences between  the statokinetic and acoustic compartments. Overview of development of the vestibulocochlear organ. | Microscopic structure of the sensory  organs. The eye - slides: anterior eye  segment, posterior eye segment,  fasciculus opticus, palpebra,  gandula lacrimalis.  The ear - slides: cochlea, auricula**.** |
| 12. 12. – 16. 12. | Microscopic structure of the organ of  vision: The eye and its refractive  (dioptric) media. Accessory structures of the eye. Overview of development of the eye. | Microscopic structure of the central  and peripheral nervous system.  Slides: cortex cerebri, cerebellum,  medulla spinalis, ganglion spinale  (the dorsal root ganglion), ganglion  vegetativum (the autonomic  ganglion), peripheral nerve. |
| 19. 12. – 23. 12. | Microscopic structure and development of the skin and skin derivatives. Mammary gland. | Microscopic structure of the skin and  skin derivatives. Slides: skin from the  tip of the finger, skin from the axilla,  skin with hairs, nail, mamma non  lactans, mamma lactans.  Credits. |

Doc. MVDr. **Aleš Hampl**, CSc.

přednosta ústavu

|  |  |  |
| --- | --- | --- |
| 02. 01. – 06. 01. 2017 |  |  |