

**Academic Year 2023/2024 Faculty of Dentistry**

**Microscopic Anatomy I. ED I.**

Week	<p align="center"><b>Digital histology slides</b> <i>Histology laboratory practices Tues 15.00-16.30</i></p>
<p align="center">Week 1 02.12 - 02.16.</p>	<p><b>Simple epithelial tissues</b> 50. Simple squamous epithelium (endothelium, elastic artery, HE) 19. Simple cuboidal epithelium (umbilical cord, HE) 3. Simple columnar epithelium (gall bladder, HE) 4. Pseudostratified epithelium (epididymis, HE)</p> <p><b>Stratified epithelial tissues</b> 5. Stratified squamous nonkeratinized epithelium (esophagus, HE) 6. Stratified squamous keratinized epithelium (palmar skin, HE) 7. Stratified columnar epithelium (penis, HE)</p>
<p align="center">Week 2 02.19 – 02.23.</p>	<p>8. Transitional epithelium (urinary bladder, HE)</p> <p><b>Glandular epithelium</b> 10. Goblet cells (large intestine, HE) <span style="float:right"><i>DEM: AOK 39 Apocrine secretion (eyelid, HE)</i></span> 11. Holocrine secretion (sebaceous gland, hairy skin, HE) 12. (Pseudo)apocrine secretion (prostate, HE) 13. Merocrine secretion (submandibular gland, HE)</p>
<p align="center">Week 3 02.26- 03.01.</p>	<p><b>Connective tissue fibres</b> 14. Collagen fibres (tendon, HE) 15. Elastic fibers (large artery, RF) 16. Reticular fibers (liver, silver impregnation) 17. Differentiating staining of connective tissue elements (hairy/scalp skin, Azan) 18. Differentiating staining of connective tissue elements (hairy/scalp skin, Hornowsky)</p> <p><b>Connective tissue cells, types of connective tissue</b> 19. Embryonic connective tissue - mesenchyme (umbilical cord, HE) 20. Connective tissue cells (scar tissue, HE) 21. Mast cells (peritoneum, toluidine blue) 22. Fat cells – adipocytes (tongue, Sudan III.)</p>
<p align="center">Week 4 03.04 -03.08.</p>	<p><b>Supporting tissues</b> 23. Hyalin cartilage (rib, HE) 24. Elastic cartilage (epiglottis, RF) 25. Fibrous cartilage (meniscus, HE) 26. Bone – cross section (Schmorl) 27. Bone – longitudinal section (Schmorl)</p> <p><b>Types of ossification, bone restructuring</b> 28. Endochondral ossification (phalanx, HE) 29. Intramembranous ossification (calvary, HE) 52. Blood cells (blood smear – May-Grünwald-Giemsa) <i>Demonstration: 81. Cell rich connective tissue (uterus, HE)</i> <i>46. Reticular connective tissue (spleen, HE)</i></p>
<p align="center">Week 5 03.11 -03.15. <i>03.15. National holiday</i></p>	<p><b>Smooth, striated and cardiac muscle types</b> 30. Smooth muscle – cross and longitudinal sections (Jejunum, HE) 31. Striated muscle – longitudinal section (HE) 32. Striated muscle – cross section (HE) 35. Cardiac muscle - longitudinal section, Purkinje-fibers (HE)</p> <p><b>Blood vessels</b> 50. Elastic artery (carotid artery, HE) <span style="float:right"><i>Demonstration : 15. Elastic artery (RF)</i></span> 51 Medium-sized artery and vein (HE) <span style="float:right"><i>Demonstration: ÁOK 38. Muscular artery and vein (Movat)</i></span> 34. Arterioles, capillaries, venules, (cardiac muscle, HE)</p> <p><b>Peripheral nervous system</b> 36. Peripheral nerve – cross section (HE) <span style="float:right"><i>Demo : 88.b Peripheral nerve (OsO4);</i></span> 37. Pseudounipolar neurone (DRG, HE) <span style="float:right"><i>6. Peripheral nerves in palm skin (HE)</i></span> 38. Multipolar neurones (autonomic ggl, AgNo3) <span style="float:right"><i>Demo: 65. Myenteric plexus in the gut wall (duodenum HE)</i></span></p>

<p>Week 6 03.18 - 03.22.</p>	<p><b>MIDTERM TEST (written) basic tissues, nerve tissue, vessels</b>  <b>Gastrointestinal tract</b>  53. Lip (HE)  54. Filiform papillae (tongue, HE)  56. Circumvallate papillae (tongue, HE)  34. Cardiac muscle - cross section (HE)</p> <p style="text-align: right;"><i>Demonstration: ÁOK 50. Foliate papillae (tongue, HE)</i></p>	
<p>Week 7 03.25 - 03.29 <i>Friday is holiday.</i></p>	<p><b>Tooth development</b>  57. Developing tooth (AZAN)  <b>ÁOK 54a, b. Ground tooth (unstained)</b>  58. Parotid gland (HE)  13. Submandibular gland (HE)  59. Sublingual gland (HE)</p> <p style="text-align: right;"><i>Demonstration: ÁOK 55. Tooth bud (AZAN)</i>  <i>60. Submandibular gland (haematoxylin and mucicarmin stain)</i></p>	
<p>Week 8 04.02 - 05. <i>Monday is holiday</i></p>	<p><b>Gastrointestinal tract</b>  5. Esophagus (HE)  61. Esophago-gastric junction (cardia) (HE)  62. Stomach (fundus) (HE)  64. Pylorus (gastro-duodenal junction, HE)  65. Duodenum (HE)  30. Jejunum (HE)  66. Ileum (HE)</p> <p style="text-align: right;"><i>Demonstration 63. Stomach (fundus) (PAS-Congo-haematoxylin stain)</i></p>	
<p>Week 9 04.08 - 04.12.</p>	<p><b>Gastrointestinal tract</b>  10. Colon (HE)  67. Vermiform appendix (HE)  68. Liver (swine, AZAN)  69. Liver (human, HE)  16. Liver, (AgNO3 impregnation)  3. Gall bladder (HE)  70. Pancreas (HE)</p>	
<p>Week 10 04.15 - 04.19.</p>	<p><b>Respiratory tract</b>  71. Larynx, (HE)  72. Trachea (HE)  73. Lung (HE)</p> <p style="text-align: right;"><i>Demonstration: ÁOK 61. Fetal lung (HE)</i></p>	
<p>Week 11 04.22 - 04.26.</p>	<p><b>Urinary system</b>  2. Kidney (HE)  91. Ureter (HE)  8. Urinary bladder (HE)</p>	
<p>Week 12 04.29 - 05.03</p>	<p><b>Male genital system</b>  74. Testis (HE)  75. Spermatic cord (HE)  12. Prostate gland (HE)  76. Seminal vesicle (HE)  7. Penis (HE)</p> <p style="text-align: right;"><i>Demo: ÁOK 75. Spermatic cord (trichrome)</i>  <i>Demonstration: 77. Glans penis (HE)</i></p>	
<p>Week 13 05.06 - 10.</p>	<p><b>Female genital system</b>  78. Ovary (HE)  79. Ovary, corpus luteum (HE)  80. Uterine tube (oviduct) (HE)</p>	
<p>Week 14 05.13 - 17.</p>	<p><b>Female genital system</b>  81. Uterus, proliferation phase (HE)  82. Uterus, secretory phase (HE)  83. Placenta (HE)  19. Umbilical cord (HE)</p> <p style="text-align: right;"><i>Demonstration: ÁOK 84. Vagina (trichrome)</i></p> <p>84. Vagina (HE)  85. Mamma non-lactans (HE)  93. Mamma lactans (HE)</p>	