

Academic Year 2024/2025 Faculty of Dentistry

Microscopic Anatomy I. ED I.

Week	<p align="center">Digital histology slides <i>Histology laboratory practices Tues 15.00-16.30</i></p>
<p>Week 1 02.10 -14.</p>	<p>Simple epithelial tissues 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>Stratified epithelial tissues 5. Stratified squamous nonkeratinized epithelium (esophagus, HE) 6. Stratified squamous keratinized epithelium (palmar skin, HE) 7. Stratified columnar epithelium (penis, HE) 8. Transitional epithelium (urinary bladder, HE)</p>
<p>Week 2 02.17 -21.</p>	<p>Glandular epithelium 10. Goblet cells (large intestine, HE) <i>DEM: AOK 39 Apocrine secretion (eyelid, HE)</i> 11. Holocrine secretion (sebaceous gland, hairy skin, HE) 12. (Pseudo)apocrine secretion (prostate, HE) 13. Merocrine secretion (submandibular gland, HE)</p> <p>Connective tissue fibres 14. Collagen fibres (tendon, HE) 15. Elastic fibers (large artery, RF) 16. Reticular fibers (liver, silver impregnation)</p>
<p>Week 3 02.24- 28.</p>	<p>Connective tissue cells, types of connective tissue 17. Differentiating staining of connective tissue elements (hairy/scalp skin, Azan) 18. Differentiating staining of connective tissue elements (hairy/scalp skin, Hornowsky) 19. Embryonic connective tissue - mesenchyme (umbilical cord, HE) 20. Connective tissue cells (scar tissue, HE) 21. Mast cells (peritoneum, toluidine blue) <i>Demonstration: 81. Cell rich connective tissue (uterus, HE)</i> 22. Fat cells – adipocytes (tongue, Sudan III.) <i>46. Reticular connective tissue (spleen, HE)</i></p> <p>Peripheral nervous system 36. Peripheral nerve – cross section (HE) <i>Demo : 88.b Peripheral nerve (OsO4);</i> 37. Pseudounipolar neurone (DRG, HE) <i>6. Peripheral nerves in palm skin (HE)</i> 38. Multipolar neurones (autonomic ggl, AgNo3) <i>Demo: 65. Myenteric plexus in the gut wall (duodenum HE)</i></p>
<p>Week 4 03.03 -07.</p>	<p>Supporting tissues 27. Bone – longitudinal section (Schmorl) 23. Hyalin cartilage (rib, HE) 24. Elastic cartilage (epiglottis, RF) Types of ossification, bone restructuring 25. Fibrous cartilage (meniscus, HE) 28. Endochondral ossification (phalanx, HE) 26. Bone – cross section (Schmorl) 29. Intramembranous ossification (calvary, HE)</p>
<p>Week 5 03.10 -14.</p>	<p>Smooth, striated and cardiac muscle types 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) 52. Blood cells (blood smear – May-Grünwald-Giemsa)</p>
<p>Week 6 03.17 -21.</p>	<p>Blood vessels 50. Elastic artery (carotid artery, HE) <i>Demonstration : 15. Elastic artery (RF)</i> 51 Medium-sized artery and vein (HE) <i>Demonstration: ÁOK 38. Muscular artery and vein (Movat)</i> 34. Arterioles, capillaries, venules, (cardiac muscle, HE)</p> <p>Gastrointestinal tract 53. Lip (HE) 54. Filiform papillae (tongue, HE) 56. Circumvallate papillae (tongue, HE) <i>Demonstration: ÁOK 50. Foliate papillae (tongue, HE)</i> 34. Cardiac muscle - cross section (HE)</p>

<p>Week 7 03.24-28.</p>	<p>Tooth development 57. Developing tooth (AZAN) <i>Demonstration: ÁOK 55. Tooth bud (AZAN)</i> ÁOK 54a, b. Ground tooth (unstained) 58. Parotid gland (HE) 13. Submandibular gland (HE) <i>60. Submandibular gland (haematoxylin and mucicarmin stain)</i> 59. Sublingual gland (HE)</p>
<p>Week 8 03.31 -04.04.</p>	<p>MIDTERM TEST (written) basic tissues, nerve tissue, vessels Gastrointestinal tract 5. Esophagus (HE) 61. Esophago-gastric junction (cardia) (HE) 62. Stomach (fundus) (HE) <i>Demonstration 63. Stomach (fundus) (PAS-Congo-haematoxylin stain)</i> 64. Pylorus (gastro-duodenal junction, HE) 65. Duodenum (HE) 30. Jejunum (HE) 66. Ileum (HE)</p>
<p>Week 9 04.07 -11.</p>	<p>Gastrointestinal tract 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 04.14 -18. <i>Friday is holiday</i></p>	<p>Respiratory tract 71. Larynx, (HE) 72. Trachea (HE) 73. Lung (HE) <i>Demonstration: ÁOK 61. Fetal lung (HE)</i></p>
<p>Week 11 04.21 -25. <i>Easter Monday is holiday</i></p>	<p>Urinary system 2. Kidney (HE) 91. Ureter (HE) 8. Urinary bladder (HE)</p>
<p>Week 12 04.28 - 05.02.</p>	<p>Male genital system 74. Testis (HE) 75. Spermatic cord (HE) <i>Demo: ÁOK 75. Spermatic cord (trichrome)</i> 12. Prostate gland (HE) 76. Seminal vesicle (HE) <i>Demonstration: 77. Glans penis (HE)</i> 7. Penis (HE)</p>
<p>Week 13 05.05 -09.</p>	<p>Female genital system 78. Ovary (HE) 79. Ovary, corpus luteum (HE) 80. Uterine tube (oviduct) (HE)</p>
<p>Week 14 05.12 -16.</p>	<p>Female genital system 81. Uterus, proliferation phase (HE) 84. Vagina (HE) <i>Demonstration: ÁOK 84. Vagina (trichrome)</i> 82. Uterus, secretory phase (HE) 83. Placenta (HE) 85. Mamma non-lactans (HE) 19. Umbilical cord (HE) 93. Mamma lactans (HE)</p>