

Microscopic Anatomy I. Faculty of Medicine 2021/ 2022 EM I

Week	Histological specimens		
<p>Week 1 01. 31-02.04.</p>	<p>Simple and stratified epithelial tissues 3. Simple columnar epithelium (biliary vesicle, HE) 91. Simple squamous epithelium (aorta, human, HE) 57. Pseudostratified simple columnar epithelium - Trachea (human, HE) 40. <i>Lymph node (semithin section; rat, toluidine blue)</i></p> <hr style="border-top: 1px dashed black;"/> <p>Simple and stratified epithelial tissues 8.b Transitional epithelium - Urinary vesicle (monkey, HE) 5. Stratified non-keratinizing squamous epithelium - Esophagus: upper and middle portions (human, HE) 6. Stratified keratinizing squamous epithelium - Plantar skin (human, HE) 7.a Stratified columnar epithelium - Penis (human, HE)</p> <p>Glandular epithelium 99.a Goblet cells (ileum, HE) 52. Merocrine secretion (seromucous) - Submandibular gland (human, HE) 148. Apocrine secretion - Axillary skin (human, HE) 11. Holocrine secretion - Hairy skin (HE) 52a. <i>Submandibular gland (human, Movat pentachrome)</i></p>		
<p>Week 2 02.07-11.</p>	<p>Connective tissue fibres and cells. 12. Umbilical cord (newborn human, HE) 6. Plantar skin (human, HE) 57. Trachea (human, HE) 40. Lymph node (semithin section; rat, toluidine blue)</p> <hr style="border-top: 1px dashed black;"/> <p>155 Granulation tissue (connective tissue cells (HE) 73. Liver (human, silver nitrate impregnation) 91.b Aorta (resorcin-fuchsin) 87. Vagina (human, trichrome)</p>		
<p>Week 3 02.14-18.</p>	<p>Types of connective tissue 12. Umbilical cord (newborn human, HE) 6. Plantar skin (human, HE) 18. Tendon (human, HE) 99.a Ileum (human, HE) 84. Uterus (human, HE) 37. Blood smear (May-Grünwald-Giemsa = MGG)</p> <hr style="border-top: 1px dashed black;"/> <p>Supporting tissues (cartilage, bone)</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> 24.b Hyaline cartilage (human costal cartilage, HE) 98. Auricle (human, Verhoeff's stain) 35. Meniscus (human, HE) 27. Cross section of a long bone (human ulna, unstained) </td> <td style="width: 50%; vertical-align: top;"> 25. Compact bone (cross section, Schmorl's picrothionin stain) 26. Compact bone (longitudinal section, Schmorl's stain) 2. Trabecular bone, bone marrow, (body of vertebra+intervertebral disc, human, HE) 60. <i>Hyaline cartilage (lung, human, semithin section, toluidine blue)</i> </td> </tr> </table>	24.b Hyaline cartilage (human costal cartilage, HE) 98. Auricle (human, Verhoeff's stain) 35. Meniscus (human, HE) 27. Cross section of a long bone (human ulna, unstained)	25. Compact bone (cross section, Schmorl's picrothionin stain) 26. Compact bone (longitudinal section, Schmorl's stain) 2. Trabecular bone, bone marrow, (body of vertebra+intervertebral disc, human, HE) 60. <i>Hyaline cartilage (lung, human, semithin section, toluidine blue)</i>
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<p>Week 4 02.21-25.</p>	<p>Types of ossification, bone restructuring 28.b Intramembranous ossification (calvary, human, AZAN) 31. Endochondral ossification (Week 17 human fetus, longitudinal section of developing foot, HE)</p> <hr style="border-top: 1px dashed black;"/> <p>Nerve tissue 88. Peripheral nerve (sciatic nerve, longitudinal and cross sections, human, HE) 67. Multipolar nerve cell (celiac ganglion, human, Bielschowsky's impregnation)</p>		
<p>Week 5 02.28-03.04</p>	<p>Smooth, skeletal and cardiac muscle types 33. Skeletal muscle (iron hematoxylin) 5. Smooth muscle and visceral striated muscle (esophagus: upper and middle portions, human, HE) 41. Cardiac muscle (human, HE) 83. <i>Eberth's line, heart, atrioventricular node (human, trichrome)</i></p> <hr style="border-top: 1px dashed black;"/> <p>MIDTERM 1. Basic tissues</p>		

<p>Week 6 03.7-11.</p>	<p>Histology of blood vessels 91. Large artery of elastic type (aorta, human, HE) 38. Medium size artery and vein (femoral vessels, Movat) 34. Small arteries, arterioles and small veins, venules (tongue, human, HE) <i>91b. Elastic artery (aorta, resorcin fuchsin)</i> 109. Capillaries (pancreas, semithin section, rat, toluidine blue) 154. Pericyte (skin of human abdominal wall, α-smooth muscle actin (SMA) immunocytochemistry) 153. Arteriovenous anastomosis /glomus organ (fingertip, human hand, HE)</p> <hr/> <p>Gastrointestinal tract 92. Lip (HE) 34. Tongue: <i>filiform and fungiform papillae</i> (HE) 49. Tongue: <i>circumvallate papillae</i> (HE) 50. Tongue; foliate papillae (human + monkey or rabbit, HE)</p>											
<p>Week 7 03.14-18.</p>	<p>54.a, b Ground tooth (unstained) 55. Developing tooth (AZAN)</p> <hr/>	<p>52a. Submandibular gland (Movat) 9. Sublingual and submandibular glands (human, HE) 51. Parotid gland (HE) 52. <i>Submandibular gland (human, HE)</i></p>										
<p>Week 8 03.21-25. <i>03. 26</i> <i>instead of</i> <i>03. 14.</i></p>	<p>5. Esophagus: upper and middle portions (human, HE) 62. Stomach, fundus (HE) 63. Gastro-esophageal junction - cardia (HE) 64. Pylorus (gastroduodenal junction, HE)</p> <hr/> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">65.a Duodenum (HE)</td> <td style="width: 50%;">156.b Jejunum (HE)</td> </tr> <tr> <td>65.c Duodenum (animal, HE)</td> <td>99. a,b Ileum (human, HE)</td> </tr> <tr> <td>66. Duodenum (human, alcian blue H picosirius red)</td> <td>68. Colon (human, HE)</td> </tr> <tr> <td>65.b Duodenum (human PAS +H)</td> <td>69.a Vermiform appendix (human, HE)</td> </tr> <tr> <td></td> <td>69.b Vermiform appendix (aged, human, HE)</td> </tr> </table>		65.a Duodenum (HE)	156.b Jejunum (HE)	65.c Duodenum (animal, HE)	99. a,b Ileum (human, HE)	66. Duodenum (human, alcian blue H picosirius red)	68. Colon (human, HE)	65.b Duodenum (human PAS +H)	69.a Vermiform appendix (human, HE)		69.b Vermiform appendix (aged, human, HE)
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<p>Week 9 03.28-04.01.</p>	<p>71.a Liver (human, HE) 71.c Liver (human, SMA ICC/H) 72.b Liver (human, HE) 73. Liver (human, silver impregnation)</p> <hr/>	<p>3. Biliary vesicle: fundus & neck (human, HE) 70. Pancreas (HE)</p>										
<p>Week 10 04.04-08.</p>	<p>Respiratory system 56. Epiglottis (HE) 17. Larynx (HE)</p> <hr/> <p>57. Trachea (HE) 58. Lung (HE) 60. Lung (toluidine blue) 61. Fetal lung (human, HE)</p>											
<p><i>Spring holidays – Easter break 04.11-04.18.</i></p>												
<p>Week 11 04.18-22.</p>	<p>Urinary system 74. Kidney (HE) 76. Kidney (semithin, toluidine blue) 77. Ureter (HE) 8.a,b Urinary vesicle (monkey, HE)Male genital system 1</p> <hr/> <p>MIDTERM 2. Histology of internal organs (except for the genital organs)</p>											
<p>Week 12 04.25-29.</p>	<p>Male genital system 78.a, b Testicle (human,HE) 78.c Epididymis (human, HE) 90. Spermatic cord (human, trichrome)</p> <hr/>	<p>81. Prostate (aged, human, HE) 89.a Seminal vesicle (HE) 7.a Penis (human, HE) 7.b Glans penis (HE) 7.c Penis (human, Verhoeff's elastic stain)</p>										
<p>Week 13 05.02-06.</p>	<p>Female genital tract 82. Ovary (rabbit, HE) 97.a, b Corpus luteum (human, HE) 94. Fallopian tube, isthmus and ampulla (human, HE)</p> <hr/>	<p>84. Uterus, proliferation's phase (human, HE) 95. Uterus, secretory phase (HE) 87. Vagina (human, trichrome) 87.a Vagina (human, HE) 115. Clitoris (human, HE)</p>										
<p>Week 14 05.09-13.</p>	<p>12. Umbilical cord of a newborn (human, HE) 86. Placenta (6th week of pregnancy, human, HE) 85a. Placenta (mature (delivered), human, HE) 85b. <i>Placenta (mature, human, pan-cytokeratin ICC)</i></p> <hr/> <p>Mamma non-lactans (HE) Mamma Lactans (HE)</p> <hr/> <p>REVISION</p>											