

HISTOLOGY SLIDES

You should be able to identify the type of tissue as well as any specific structures within the tissue as indicated below. The lab manual contains a histology section as well as numerous line drawings within each exercise to use as a reference (plate and page # refers to the 8th edition Marieb lab manual). Furthermore, the lecture textbook also has helpful diagrams in each system chapter.

Blood and cardiovascular system

<u>Plate #</u>	<u>Page#</u>	
58	739	<u>Human blood smear</u> (205x): formed elements vs. plasma
58	739	Blood (205x): RBC, WBC, platelets
61	739	Blood (320x): monocyte
59	739	Blood (320x): neutrophil
62	739	Blood (320x): eosinophil
60	739	Blood (320x): lymphocyte
63	739	Blood (320x): basophil

Endocrine system

<u>Plate #</u>	<u>Page #</u>	
44	736	<u>Pancreatic islet</u> (130x): endocrine tissue
21	732	<u>Pancreatic islet</u> : alpha (red) and beta cells (blue) stained
52	738	<u>Testis</u> (100x): seminiferous tubules
19	732	<u>Thyroid gland</u> (100x): follicles containing colloid, follicle cells
24	732	<u>Adrenal gland</u> (30x): capsule, cortex (zona g, f and r) , medulla
25	732	<u>Ovary</u> (6.5x): follicles in various stages of development

Cardiovascular system

<u>Plate#</u>	<u>Page#</u>	
27	691	<u>Artery and vein</u> (50x)
30.7	305	<u>Cardiac muscle</u> tissue (205x): muscle fibre, <u>intercalated discs</u> , striations cell nuclei Thin section of <u>cardiac muscle</u> (320x)
2	687	<u>Skeletal muscle</u> tissue for comparison (205x)
3	687	<u>Smooth muscle</u> tissue of uterus (205x)

Respiratory system

<u>Plate#</u>	<u>Page#</u>	
36.7B	372	<u>Terminal bronchiole</u> , respiratory bronchiole, Alveolar duct
32	692	<u>Lung</u> (13x): alveoli and alveolar ducts and sacs

Gastrointestinal System

<u>Page #</u>	<u>Plate #</u>	
736	43	<u>Sublingual salivary gland</u> (130x): ducts, mucous cells
TEXT	889	Fig. 24-10 <u>Esophageal wall</u> (40x): epithelium, mucosa, submucosa, muscularis
735	36	<u>Gastroesophageal junction</u> : stomach columnar epithelium meets esophageal squamous epithelium
735	37	<u>Stomach</u> : Gastric pits and glands, tunics (80x)
735	38	Detailed structure of gastric glands and pits (80x)
735	39	<u>Wall of duodenum</u> (10x): lumen, villi, mucosa, submucosa, smooth muscle (inner and outer), serosa, duodenal glands
736	42	<u>Wall of large intestine</u> (colon, 21x): lumen, goblet cells, submucosa
736	45	<u>Liver lobule</u> (25x): central vein, lobule, connective tissue septum
736	44	<u>Pancreas</u> (100x): exocrine (acinar) vs. endocrine (islets) regions

Urinary System

<u>Plate#</u>	<u>Page#</u>	
47	737	Renal cortex: glomeruli, renal tubules, glomerular capsule
48	737	Glomerulus: renal tubular cells, glomerular capsule (space), glomerulus, juxtaglomerular cells, macula densa
49	737	Ureter: muscle layer, transitional epithelium

Reproductive System

<u>Plate#</u>	<u>Page#</u>	
51	737	Penis: corpora cavernosae, corpus spongiosum, urethral lumen
52	738	Seminiferous tubule: sertoli cells, spermatogenic cells, location of interstitial cells, immature sperm
53	738	Semen
55	738	Ovary: primary follicle, oocyte, granulosa cells lining Graafian follicle, cortex, medulla
56	738	Breast (non-lactating): inactive alveoli
57	738	Breast (lactating): active alveoli