

Histology Checklist for the Anato-Bee

Key:

- Words in (parentheses) are structures that you must be able to differentiate between.
- Words following a slash are additional acceptable ways to phrase or name the structure.
- Information in *[brackets and italicized]* is included to aide in your studying.

TOPIC	TAGGABLE STRUCTURES
Epithelium and Glands	Types of epithelia: <ul style="list-style-type: none"> • Simple squamous epithelium • Stratified squamous epithelium (distinguish keratinized vs. non-keratinized) • Simple cuboidal epithelium • Simple columnar epithelium • Pseudostratified ciliated columnar epithelium • Transitional epithelium/Urothelium
	Basement membrane <i>[with PAS staining]</i>
	Examples of exocrine glands: <ul style="list-style-type: none"> • Sudoriferous sweat gland • Mammary gland
	Examples of endocrine glands: <ul style="list-style-type: none"> • Pituitary gland • Thyroid gland
Connective Tissue Proper	Lamina propria
	Fiber types: <ul style="list-style-type: none"> • Collagen <i>[focus on type I collagen]</i> • Elastic • Reticular <i>[composed of type III collagen]</i>
	Identify types of collagenous tissue: <ul style="list-style-type: none"> • Loose/Areolar • Dense Regular • Dense Irregular
	Cell types in peripheral blood smear: <ul style="list-style-type: none"> • Red blood cells • White blood cells • Platelets
Cartilage and Bone	Types of cartilage: <ul style="list-style-type: none"> • Hyaline • Fibrocartilage • Elastic
	Types of bone:

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	<ul style="list-style-type: none"> • Compact bone/Cortical bone • Spongy bone/Trabecular bone Osteon/Haversian system Connective tissue of bone: <ul style="list-style-type: none"> • Periosteum • Endosteum
Muscle Tissue	Types of muscle: <ul style="list-style-type: none"> • Skeletal • Cardiac • Smooth
	Bands/lines and zones of a sarcomere [<i>Illustration; Light micrograph and TEM</i>]
	Organization of skeletal muscle: <ul style="list-style-type: none"> • Myofibril • Myofilament • Myofiber • Fascicle • Muscle
	Connective tissue of muscle: <ul style="list-style-type: none"> • Endomysium • Perimysium • Epimysium
Nervous Tissue	Parts of a nerve: <ul style="list-style-type: none"> • Neuron <ul style="list-style-type: none"> ○ Dendrites ○ Cell body ○ Axon ○ Axon terminal bulb
	Types of neurons: <ul style="list-style-type: none"> • Pseudounipolar • Bipolar • Multipolar
	Myelin-producing cell types: <ul style="list-style-type: none"> • Schwann cells [<i>found in the PNS</i>] • Oligodendrocytes [<i>found in the CNS</i>]
	Connective tissue of nerves: <ul style="list-style-type: none"> • Endoneurium [<i>covers an axon</i>] • Perineurium [<i>covers a nerve fascicle</i>] • Epineurium [<i>covers a nerve</i>]
	Layers/tunics of a typical blood vessel: <ul style="list-style-type: none"> • Tunica intima

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Cardiac and Circulatory System	<ul style="list-style-type: none"> • Tunica media • Tunica externa
	Layers of the heart: <ul style="list-style-type: none"> • Endocardium • Myocardium • Epicardium/Visceral layer of the pericardium
Integumentary System	Layers of skin: <ul style="list-style-type: none"> • Epidermis (distinguish thick vs. thin skin) • Dermis (distinguish thick vs. thin skin) • Hypodermis/Subcutaneous layer
	Superficial fascia
Respiratory	Layers of conducting airways: <ul style="list-style-type: none"> • Mucosa • Submucosa • Muscularis [<i>with cartilage rings/plate</i>] • Adventitia
	Cells of the respiratory zone: <ul style="list-style-type: none"> • Type I pneumocytes • Type II pneumocytes • Dust cell/Alveolar macrophages
Accessory Organs of Digestion	Major salivary glands: <ul style="list-style-type: none"> • Parotid [<i>mostly serous</i>] • Submandibular [<i>mixed</i>] • Sublingual [<i>mostly mucous-producing</i>]
Gastrointestinal (GI) Tract	Layers of the GI tract: <ul style="list-style-type: none"> • Mucosa • Submucosa • Muscularis • Adventitia/Serosa
	Nervous tissue of the GI tract: <ul style="list-style-type: none"> • Myenteric plexus/Auerbach's plexus • Submucosal/Meissner's plexus
Urinary and Reproductive Systems	Layers of the bladder and ureters: <ul style="list-style-type: none"> • Transitional Epithelium • Submucosa • Muscularis/Detrusor muscle [<i>Bladder</i>] • Adventitia/Serosa
	Tissue layers/structures of the ovary: <ul style="list-style-type: none"> • Germinal Epithelium • Capsule

TOPIC	TAGGABLE STRUCTURES
	<ul style="list-style-type: none"> • Cortex • Medulla • Follicles/Oocyte
	Layers of the uterus: <ul style="list-style-type: none"> • Endometrium • Myometrium • Perimetrium
	Structures and cell types of the testis: <ul style="list-style-type: none"> • Seminiferous Tubules <ul style="list-style-type: none"> ○ Spermatogonia ○ Spermatids/Spermatozoa ○ Sertoli cells • Leydig Cells
Lymphoid Organs	Diffuse lymphoid tissue
	Lymph nodes [<i>tonsils (general), appendix, and thymus</i>]
	Lymphoid follicles: <ul style="list-style-type: none"> • Peyer's Patches [<i>of the small intestine</i>] • Periarterial lymphoid sheath [<i>of the spleen</i>]