**Items to Identify: Digestive System**

**Slides to Identify**

* Slide 137: Esophagus
	+ Epithelium, lamina propria, muscularis mucosa, esophageal glands, submucosa, gland ducts, muscularis externa
* Slide 140: Cardiac stomach, with chronic infection
	+ Simple columnar epithelium, mucous secretions
* Slide 141: Pyloric stomach, monkey (PAS)
	+ Pyloric glands, gastric pits, surface mucous cells
* Slide 145: Fundic stomach
	+ Mucosa, epithelium, lamina propria, muscularis mucosa
	+ Submucosa, Meissner’s nerve plexus
	+ Muscularis externa, Auerbach’s nerve plexus
	+ Serosa, adventitia
	+ Gastric pits, gastric glands, chief cells, parietal cells, surface mucous cells
	+ Auerbach’s plexus, Meissner’s plexus
	+ Enteroendocrine cells
* Slide 146: Duodenum, monkey
	+ Mucosa, epithelium, lamina propria, muscularis mucosa
	+ Submucosa, Meissner’s nerve plexus
	+ Muscularis externa, Auerbach’s nerve plexus
	+ Serosa, adventitia
	+ Brunner’s glands, crypts of Lieberkuhn, Paneth cells
* Slide 147: Pyloroduodenal junction, baboon
	+ Pyloric stomach, duodenum, gastric pits, intestinal intervillous space, gastric glands, crypts of Lieberkuhn, goblet cells, brush border
	+ Lamina propria, muscularis mucosa, submucosa, muscularis externa
* Slide 148: Ileum
	+ Paneth cells, argentaffin cells, goblet cells, brush border
* Slide 152: Duodenum
	+ Paneth cells, enteroendorcrine (argentaffin) cells
* Slide 153: Colon, monkey
	+ Mucosa, epithelium, lamina propria, muscularis mucosa
	+ Submucosa, Meissner’s nerve plexus
	+ Muscularis externa, Auerbach’s nerve plexus
	+ Serosa, adventitia
	+ Lack of intestinal villi, crypts of Lieberkuhn, goblet cells, lymph follicles, fat cells, argentaffin cells
* Slide 204: Appendix
	+ No intestinal villi, lymphocyte clusters, argentaffin cells
* Slide 242: Esophagus and trachea, monkey
	+ Epithelium, lamina propria, muscularis mucosa, esophageal glands, submucosa, gland ducts, muscularis externa
* Slide 243: Fundic stomach, monkey (PAS)
	+ Surface mucous cells, parietal cells, chief cells, enteroendocrine cells
* Slide 244: Fundic stomach, rabbit (toluidine blue)
	+ Enteroendocrine cells
* Slide 249: Ileum, monkey (PAS)
	+ Paneth cells, argentaffin cells, goblet cells, brush border
* Slide 250: Ileum, monkey
	+ Paneth cells, argentaffin cells, goblet cells, brush border
* Slide 437: Cardioesophageal junction
	+ Stratified squamous epithelium, simple columnar epithelium, cardio-esophageal junction
* Slide 447: Duodenum, monkey (toluidine blue)
	+ Mucosa, epithelium, lamina propria, muscularis mucosa
	+ Submucosa, Meissner’s nerve plexus
	+ Muscularis externa, Auerbach’s nerve plexus
	+ Serosa, adventitia
	+ Brunner’s glands, crypts of Lieberkuhn, Paneth cells
	+ Goblet cells, brush border
* Slide 32409: Rat intestine (toluidine blue)
	+ Muscularis externa, Auerbach’s plexus, submucosa, Meissner’s plexus, capillaries
	+ Intestinal absorptive cells, lamina propria, central lacteal
* Slide 32412: Appendix
	+ No intestinal villi, lymphocyte clusters, argentaffin cells
* Slide HISTO039: Larynx and esophagus
	+ Esophageal epithelium
	+ Muscle layers
	+ Sub-mucosal glands
* Slide HISTO051: Tongue & Slide HISTO052:
	+ Circumvallate papillae with taste buds and glands of Ebner
	+ Skeletal muscle
	+ Mucous and serous glands
	+ Non-keratinized stratified squamous epithelium

**EMs to Identify**

* EM 3: Intestine (basal); 18,400x
	+ Intestinal absorptive cells, goblet cells, brush border, mitochondria
* EM 4: Intestine (apical); 18,400x
	+ Intestinal absorptive cells, goblet cells, brush border, mitochondria
* EM 4b: Intestinal absorptive cell (apex); 60,000x
	+ Intestinal absorptive cells, brush border, cell junctions, mitochondria,
* EM 4c: Intestinal absorptive cell (super nuclear region); 60,000x
	+ Intestinal absorptive cells, intercellular spaces
* EM 14: Stomach (chief); 17,000x
	+ Chief cells, secretory vesicles
* EM 15: Stomach (parietal); 13,500x
	+ Mucous neck cells, mitochondria, intracellular canaliculi of parietal cells, vesicles
* EM 16: Surface mucosa; 13,500x
	+ Surface mucous neck cells
* EM 17: Duodenum; 13,500x
	+ Intestinal absorptive cells, lamina propria, macrophages, smooth muscle cells, fibroblasts, endothelium , intercellular space, basal lamina