

	Oropharynx	Esophagus	Stomach	Small Intestines	Large Intestines	Appendix	Rectum
Characteristics			Rugae (temporary submucosal folds), mammilated areas, gastric pits	Plicae circularis (valves of Kerckring) (permanent submucosal folds) Villi (mucosal folds)	Flat surface with "test tubes" in it No villi	Similar to colon: smaller diameter, no taenia coli, more lymph, less crypts of lieberkuhn	Similar to colon: no taenia coli, crypts mostly goblet cells
Mucosa							Anal Canal
Epithelium	SSnK	SSnK	Simple columnar mucous cells	Simple columnar enterocytes	Simple columnar enterocytes		Upper: Simple columnar enterocytes Crypts mostly goblet cells Middle: Stratified cuboidal (abrupt chg) No more crypts, muscularis mucosae Lower: SSnK Lowest: SSK
Lamina Propria	LCT mucosal glands (simple branched tubular)	LCT mucosal glands (cardiac - bottom of esophagus)	LCT mucosal glands (cardiac, gastric/fundic, or pyloric)	LCT, central lacteal (lymph), GALT Crypts of Lieberkuhn (Simple tubular) ILEUM ONLY Peyer's Patches	LCT, GALT Crypts of Lieberkuhn (Simple tubular)		
Muscularis Mucosae	None	longitudinal single layer	inner circular, outer longitudinal	inner circular, outer longitudinal	inner circular, outer longitudinal		
Submucosa	None	Dense irregular CT Submucosal glands (compound tubuloalveolar) Mostly Mucous, some serous	Dense irregular CT Meissner's plexus No submucosal glands	Dense irregular CT Meissner's Plexus DUODENUM ONLY Submucosal (Brunner's) glands (compound tubular) Alkaline mucus, empties into Crypts of Lieberkuhn	Dense irregular CT Meissner's plexus No submucosal glands		Dense irregular CT Meissner's plexus No submucosal glands Highly vascularized - hemorrhoidal veins
Muscularis Externa	Inner circular outer longitudinal Skeletal	Inner circular Myenteric (Auerbach's) Plexus outer longitudinal Upper Skeletal, Lower smooth	inner oblique middle circular Myenteric (Auerbach's) Plexus outer longitudinal	Inner circular Myenteric (Auerbach's) Plexus outer longitudinal	Inner circular Myenteric (Auerbach's) Plexus Outer longitudinal has 3 bands (Taenia coli)		Inner circular - internal anal sphincter (smooth) Myenteric (Auerbach's) Plexus Outer longitudinal terminates in CT Skeletal muscle starts - external anal sphincter
Serosa or Adventitia	Adventitia (fibrosa) Tough fibroelastic CT	Adventitia LCT	Serosa LCT + simple squamous mesothelium	Peritoneal - serosa Retroperitoneal - adventitia	Peritoneal - serosa Retroperitoneal - adventitia		Adventitia
			CELLS IN GASTRIC/FUNDIC GLAND	CELLS IN EPITHELIUM	CELLS IN EPITHELIUM		
			Mucous Neck Cells	Enterocytes	Enterocytes		
			Parietal Cells	Goblet Cells	Goblet Cells		
			Chief Cells	Enteroendocrine Cells	Enteroendocrine Cells		
			Enteroendocrine Cells				
			Undifferentiated Stem Cells	CELLS IN CRYPTS OF LIEBERKUHN	CELLS IN CRYPTS OF LIEBERKUHN		
				Immature interocytes	Immature interocytes		
			CELLS IN CARDIAC/PYLORIC GLANDS				
			Mostly Mucous Neck Cells	Goblet cells	Goblet cells		
			Enteroendocrine Cells	enteroendocrine cells	enteroendocrine cells		
			Enteroendocrine Cells	Paneth cells	NO PANETH CELLS		
			Undifferentiated Stem Cells	undifferentiated stem cells	undifferentiated stem cells		