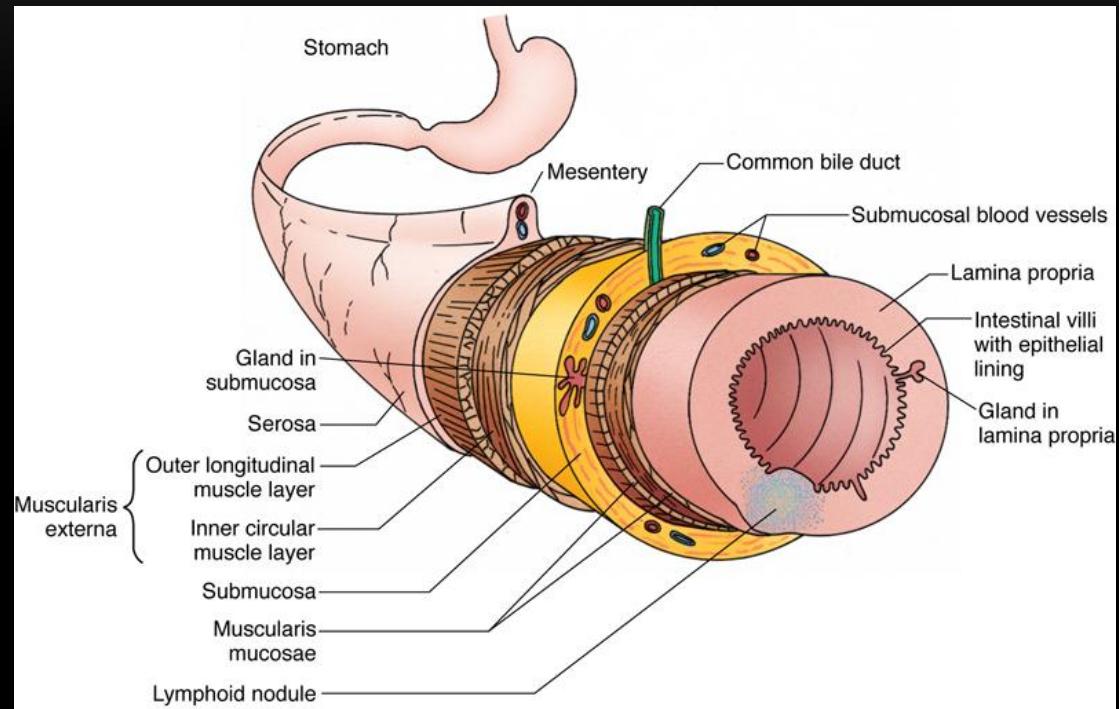
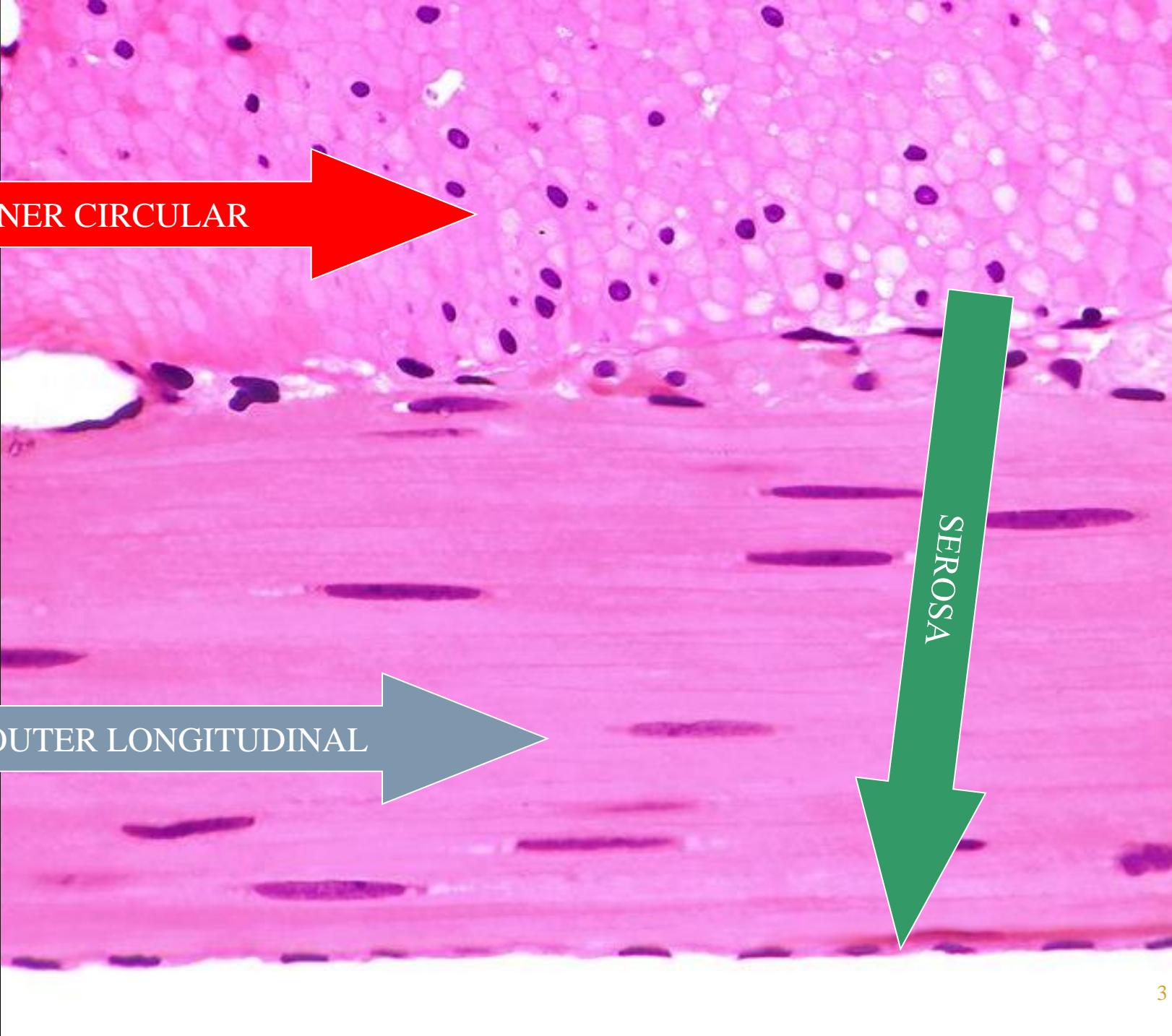


Histology of the Esophagus & Stomach

THE WALL OF THE ALIMENTARY TRACT:

- **Mucosa:**
 - Epithelium
 - Lamina propria
 - Muscularis mucosa
- **Submucosa:**
 - Connective tissue
 - Submucosal plexus (Meissner's plexus).
- **Muscularis externa:**
 - Inner circular
 - Outer longitudinal
 - Auerbach's myenteric plexus.
- **Serosa or adventitia**

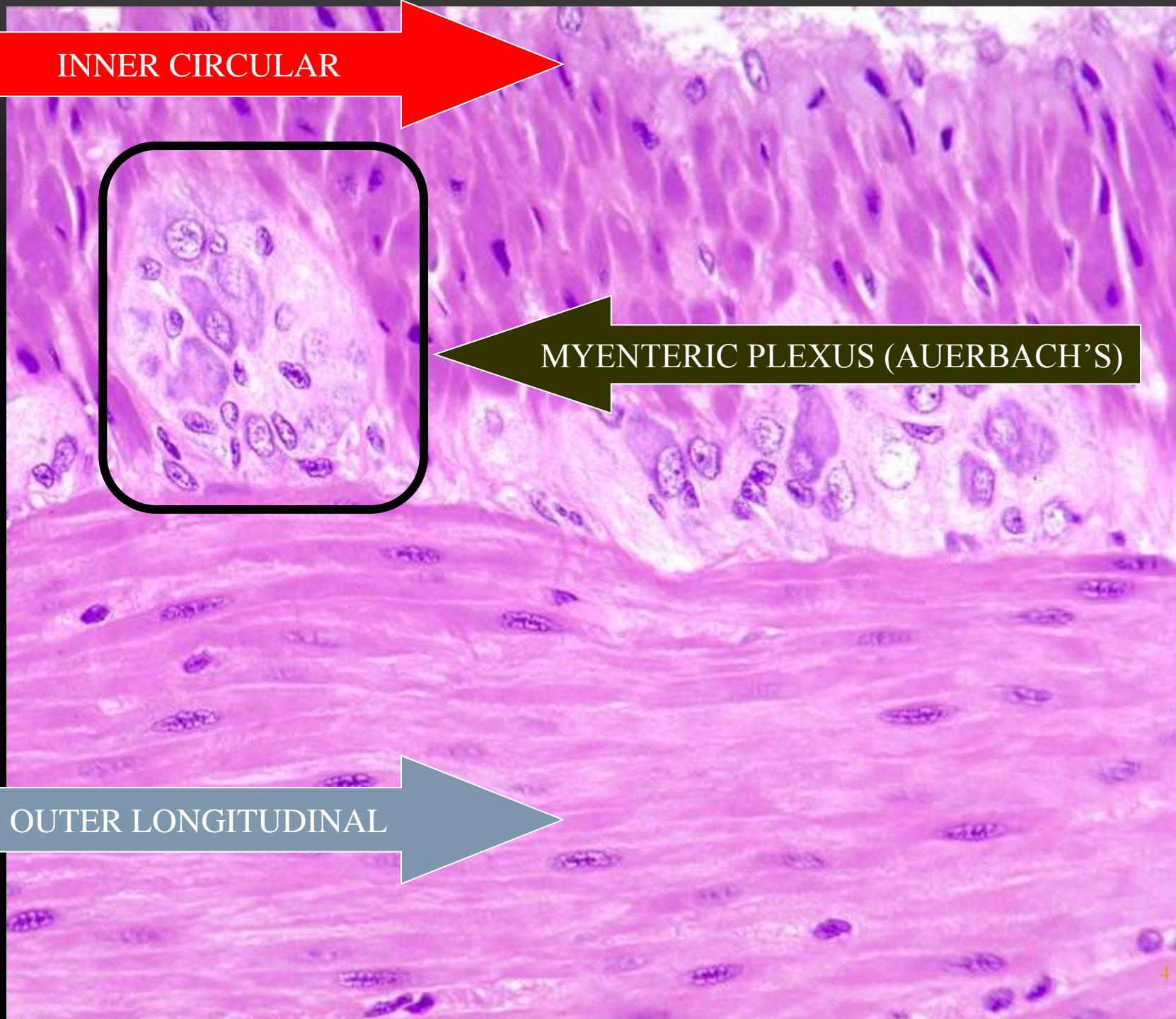




INNER CIRCULAR

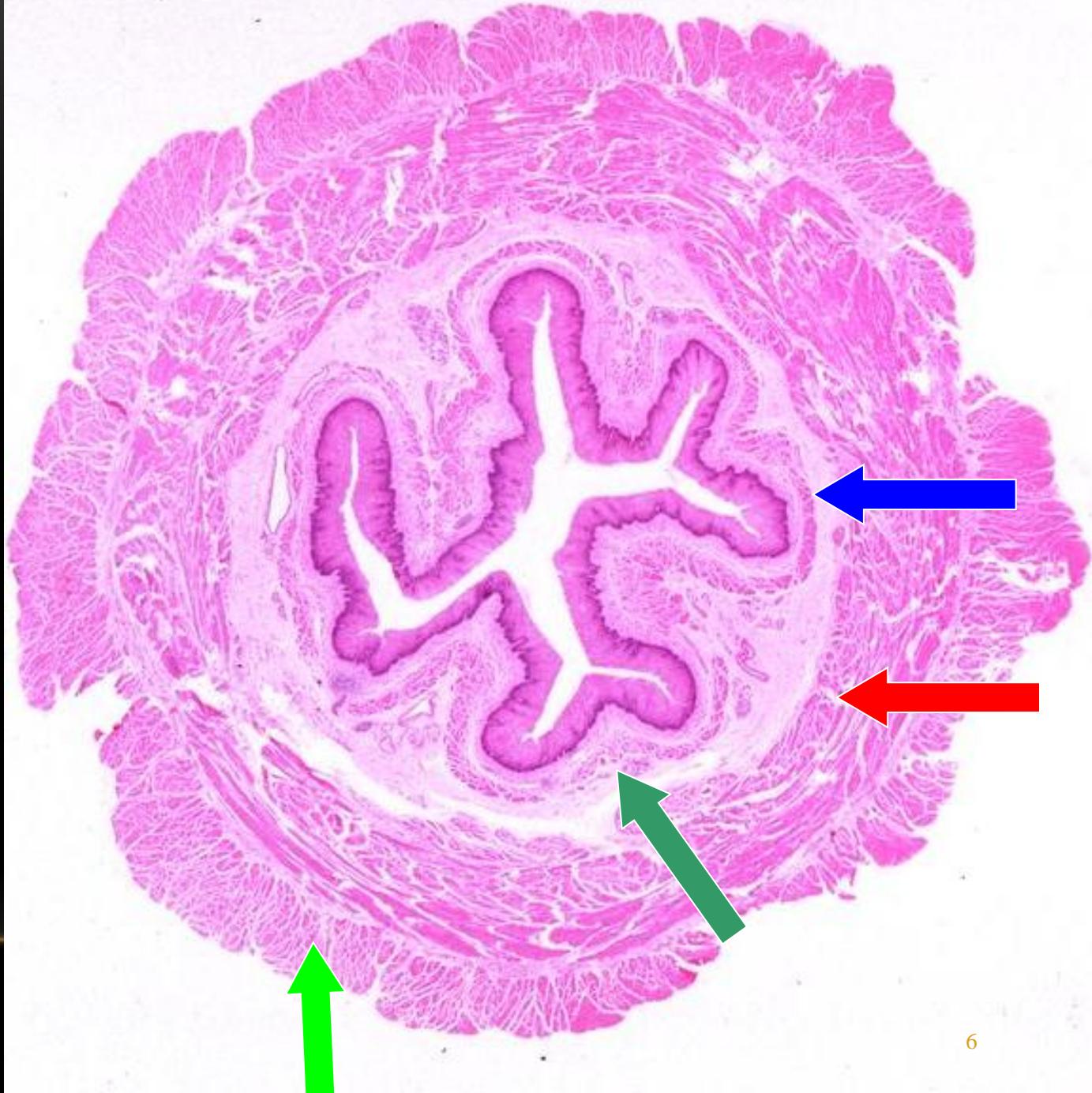
OUTER LONGITUDINAL

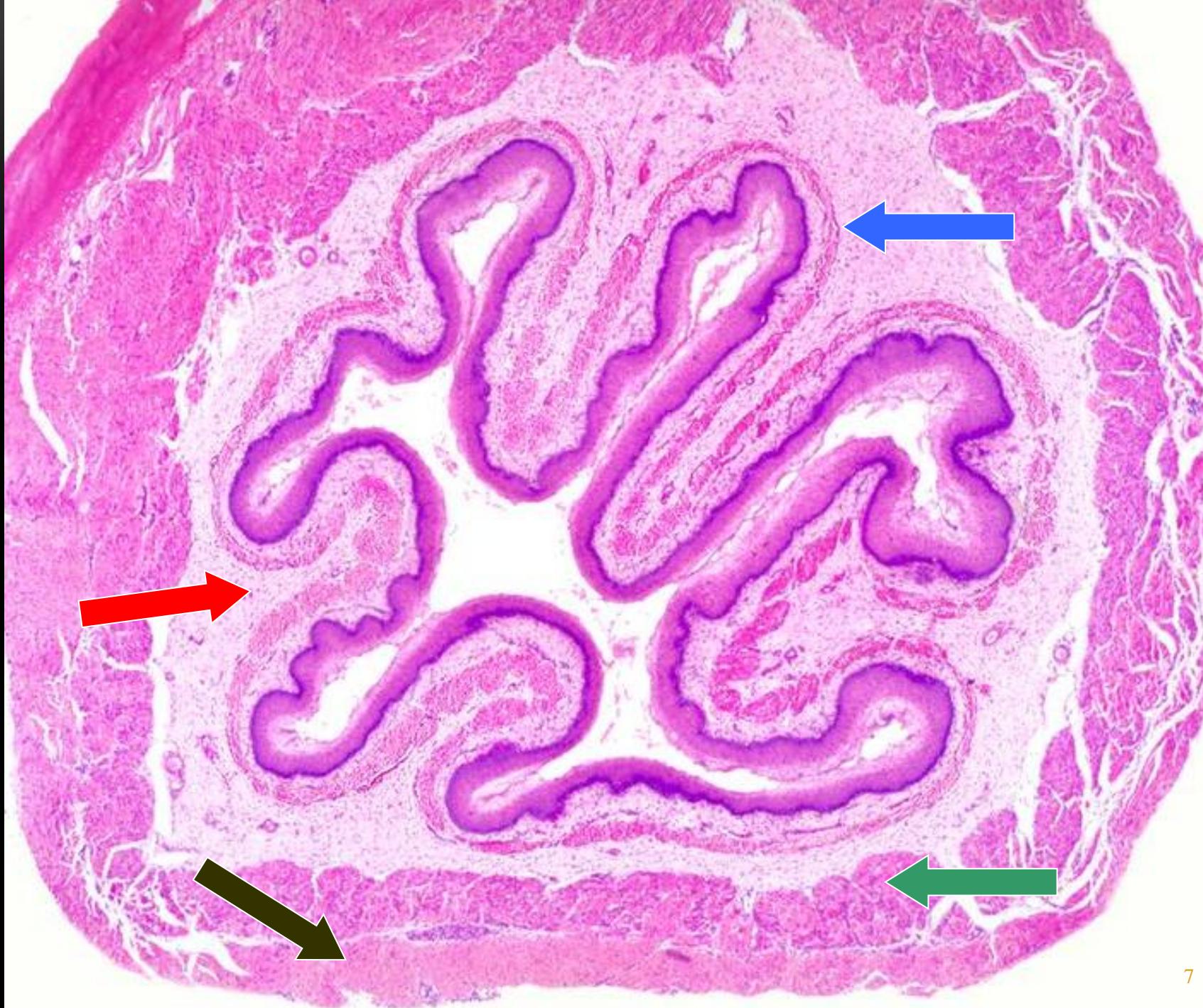
SEROSA

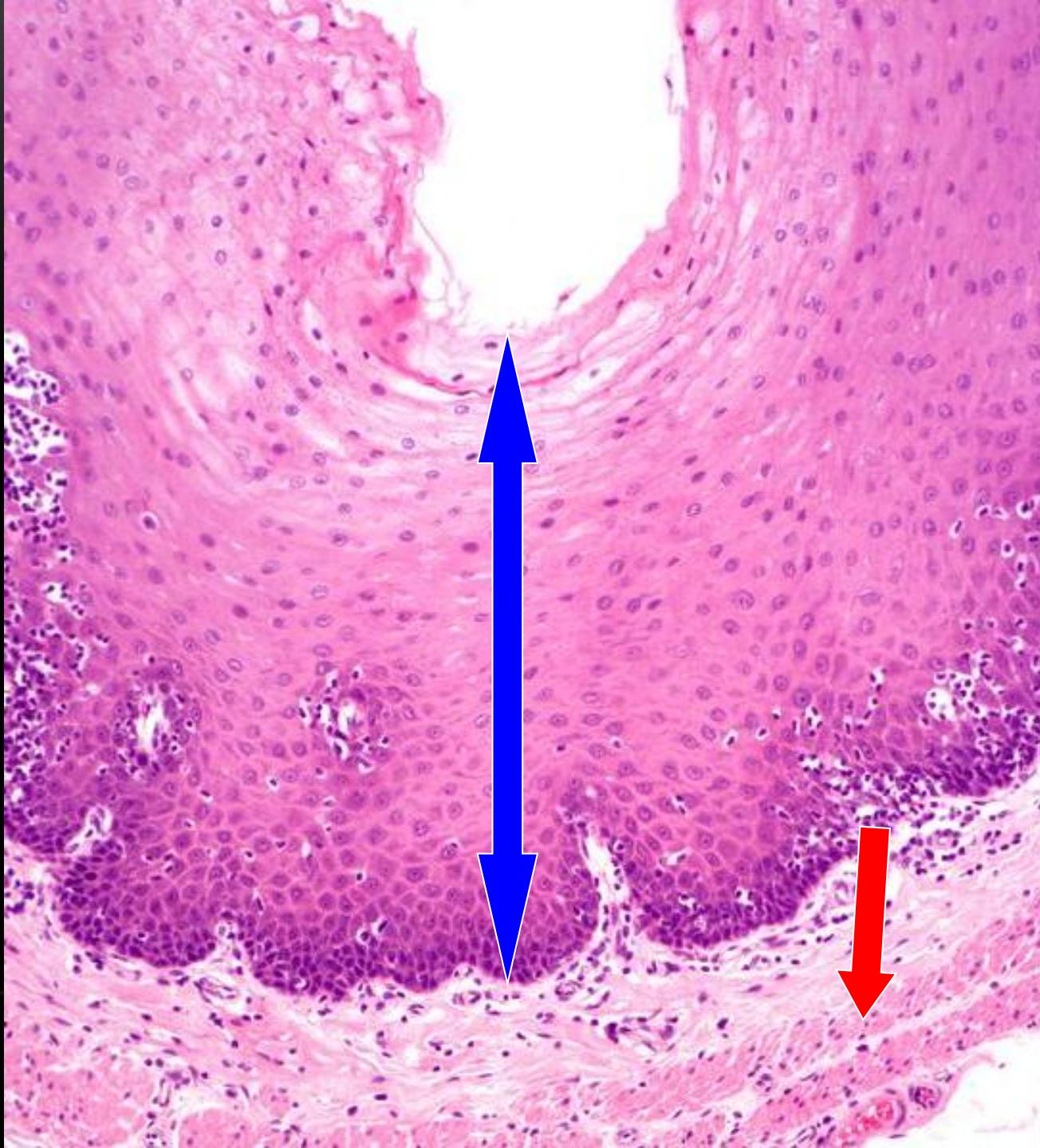


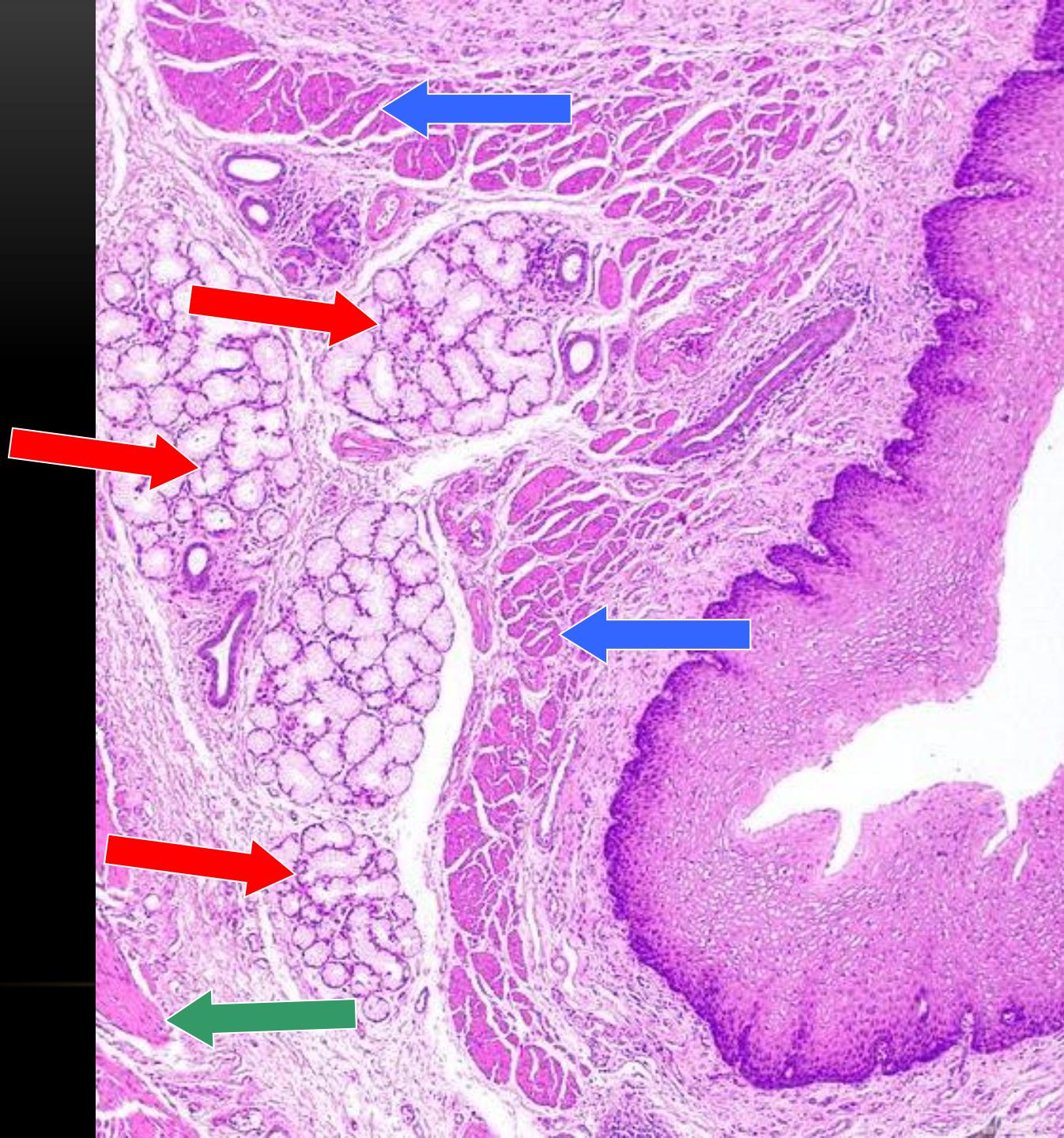
ESOPHAGUS

Esophagus

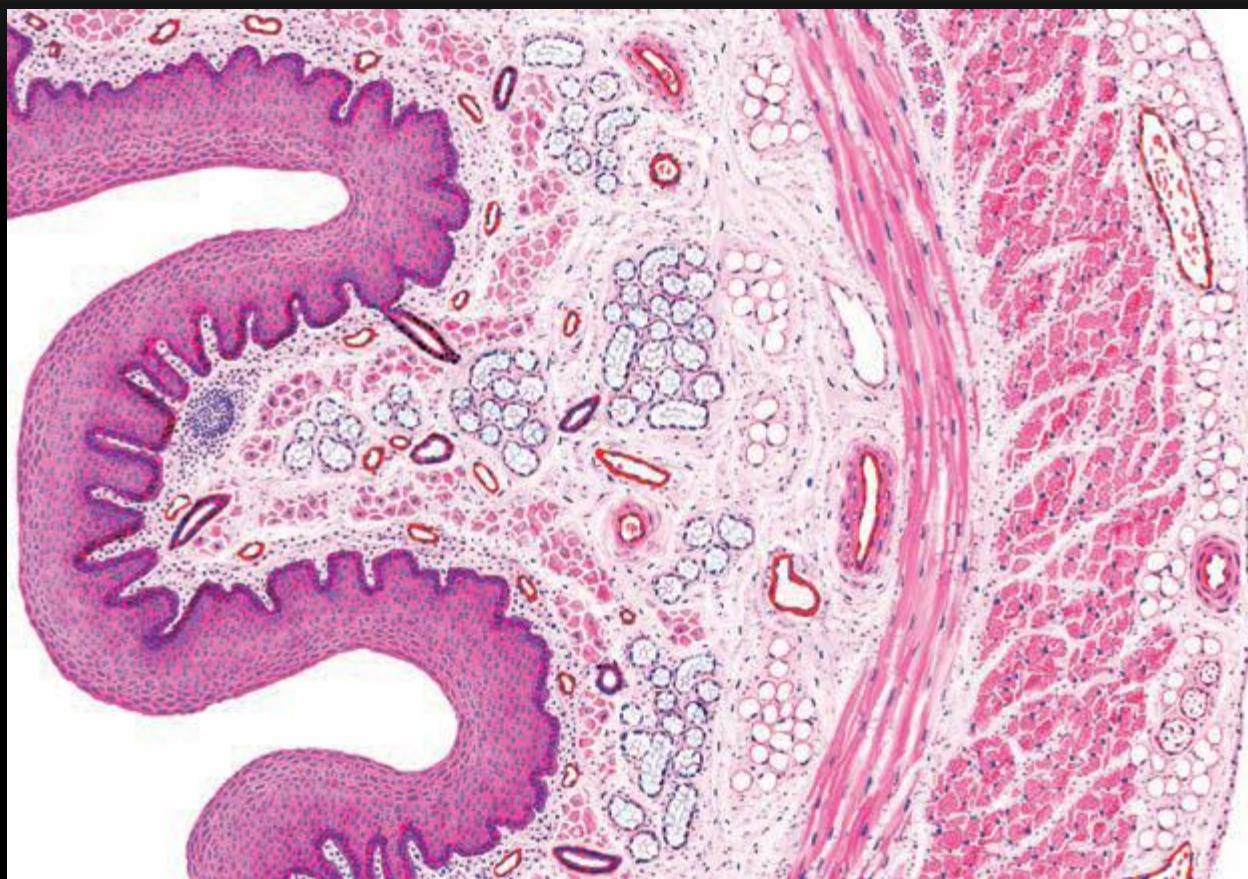








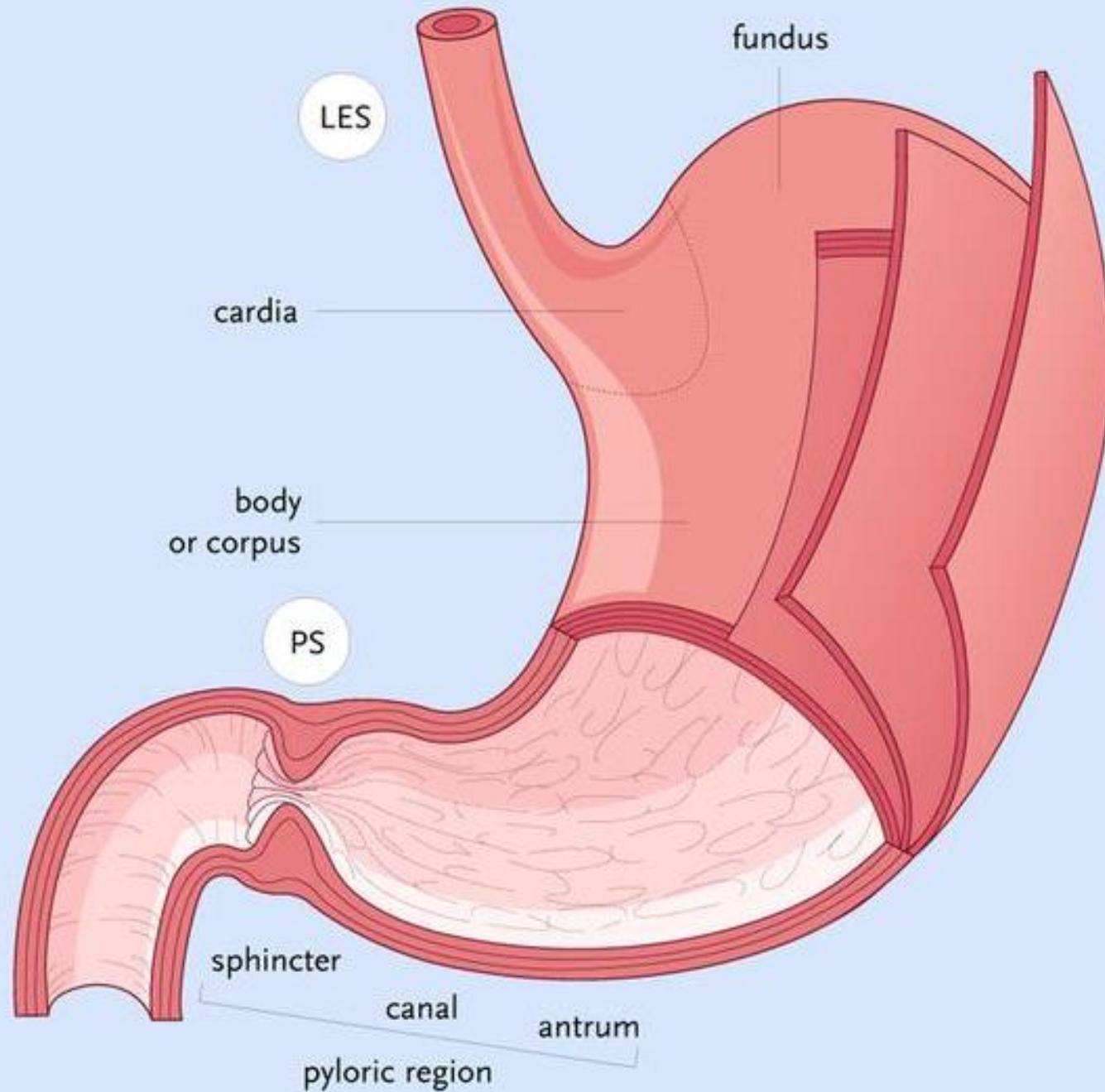


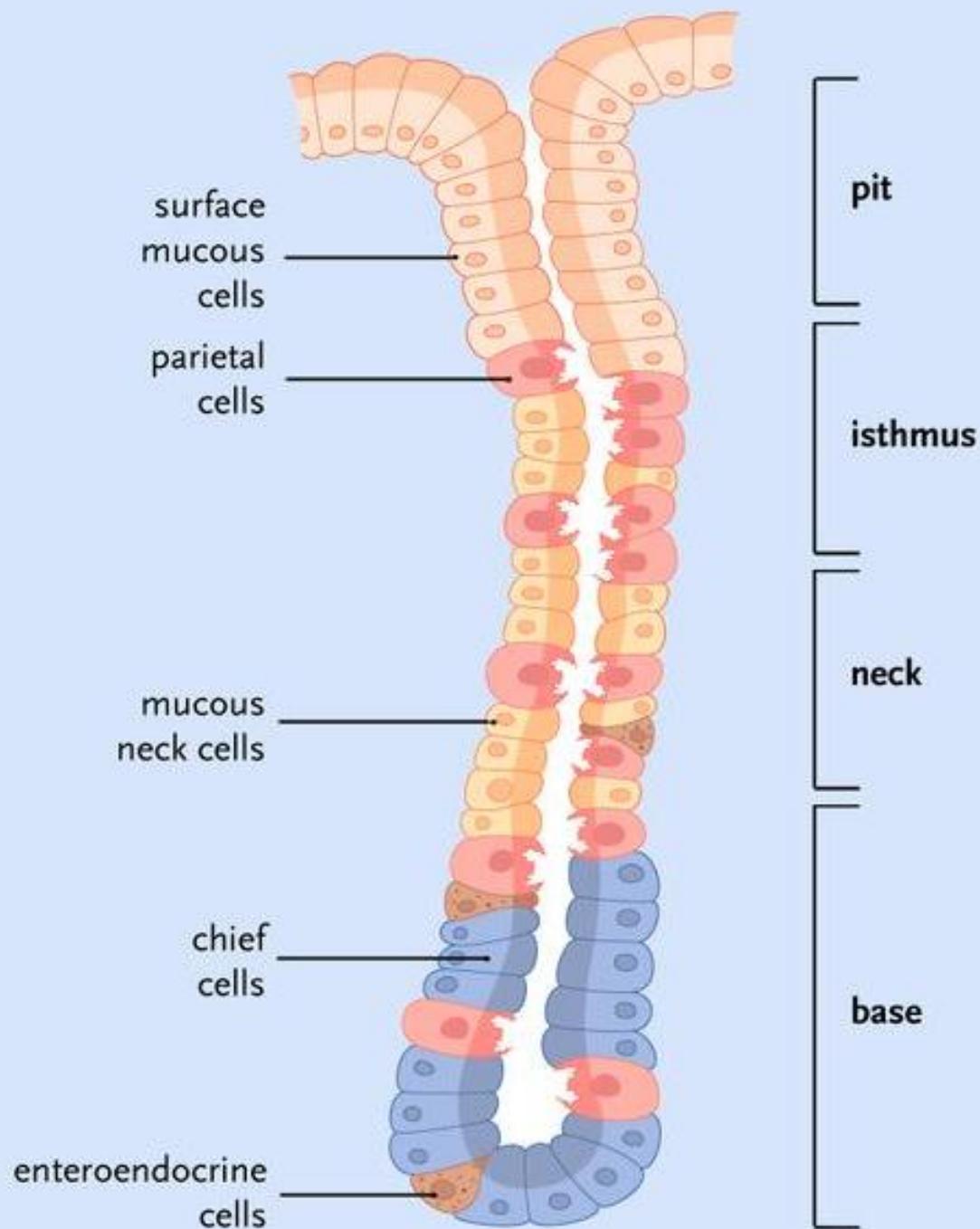


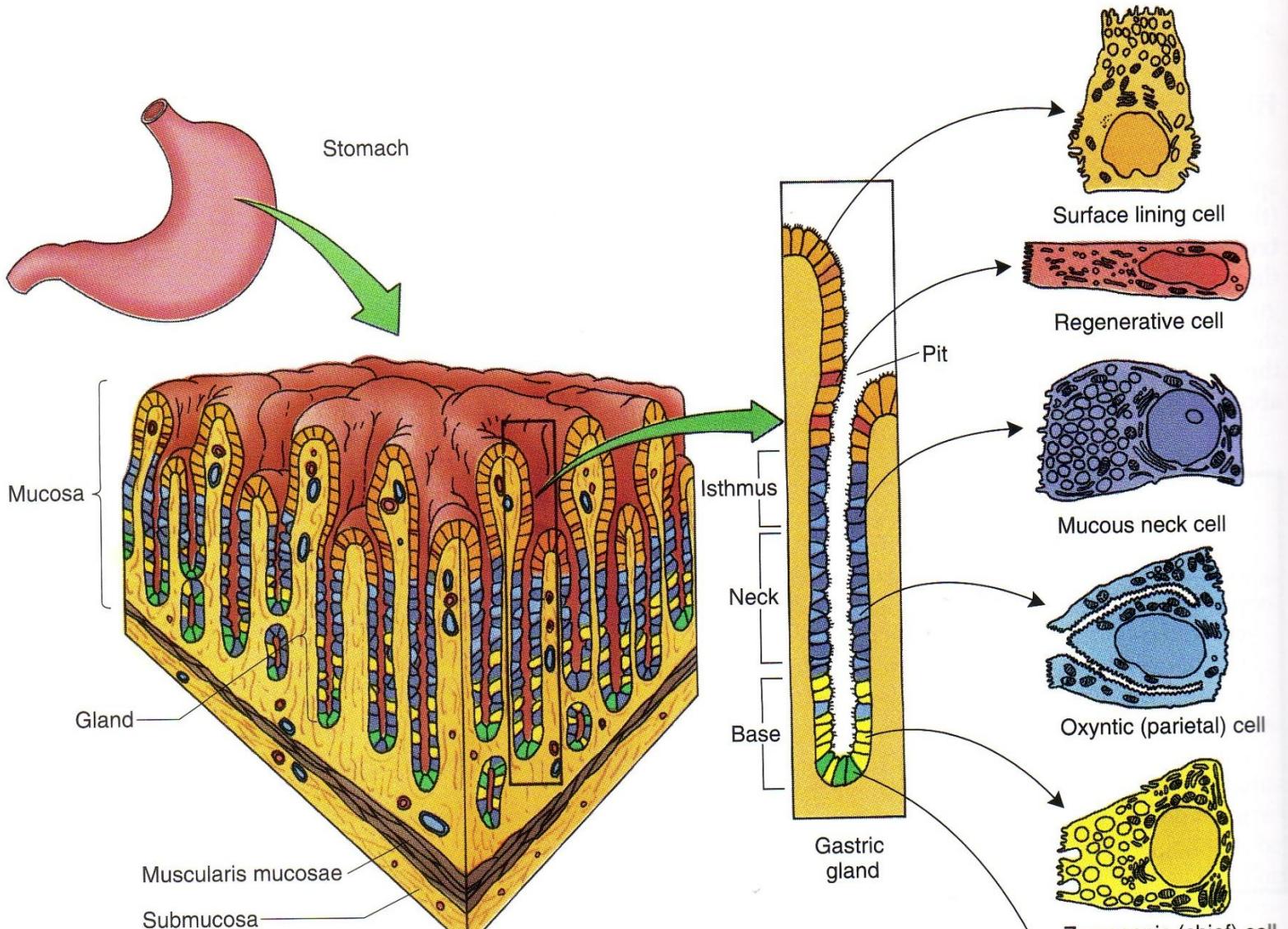




STOMACH

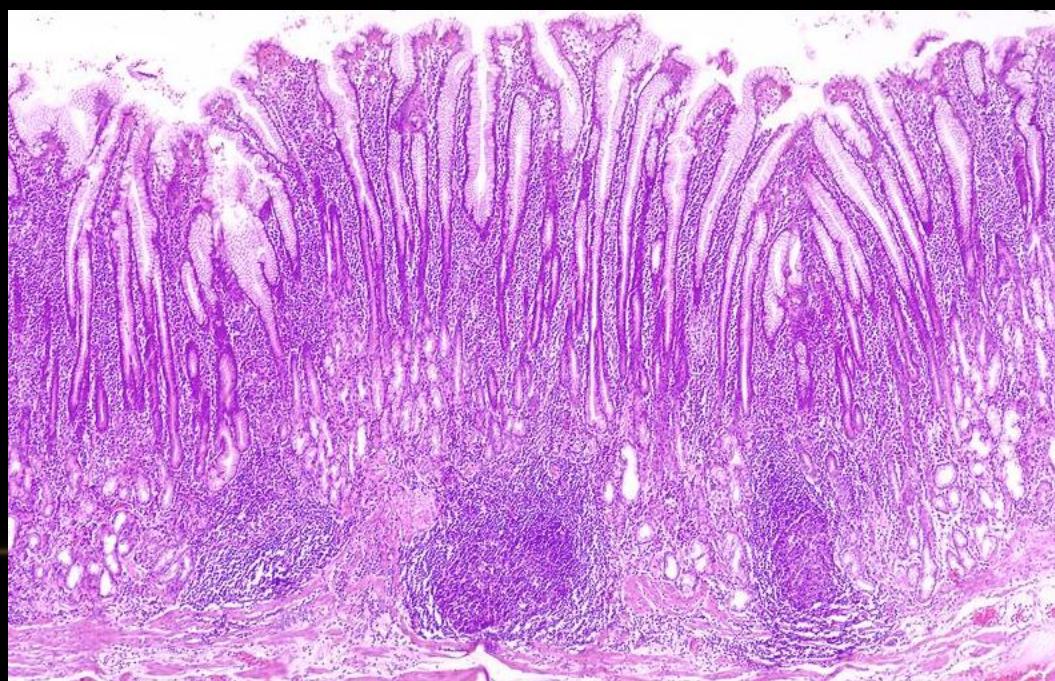
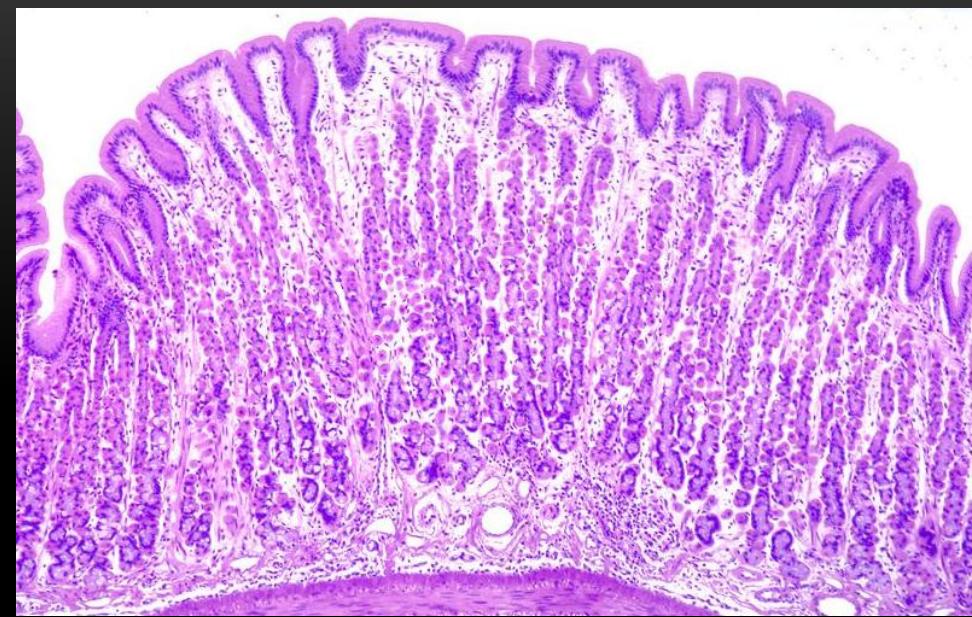
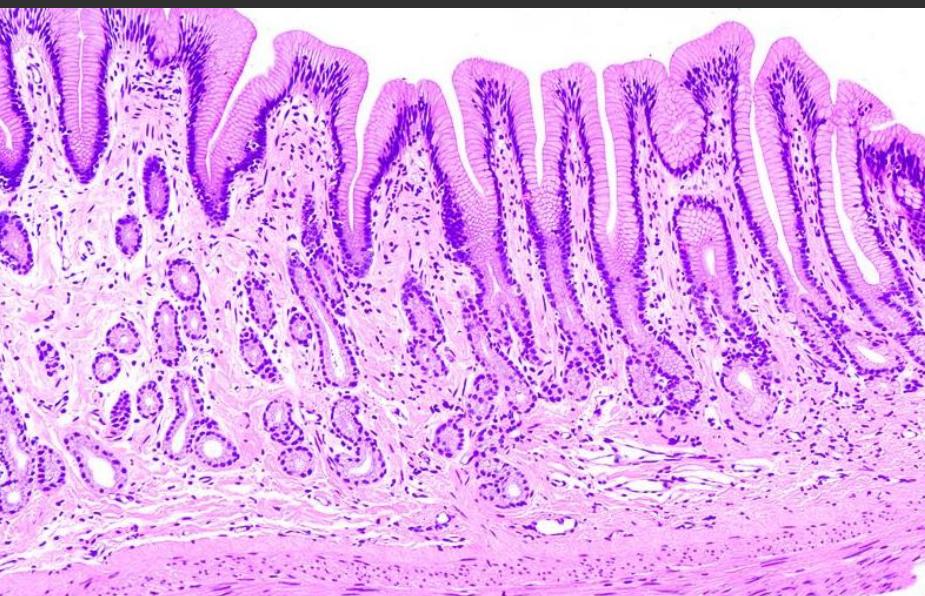




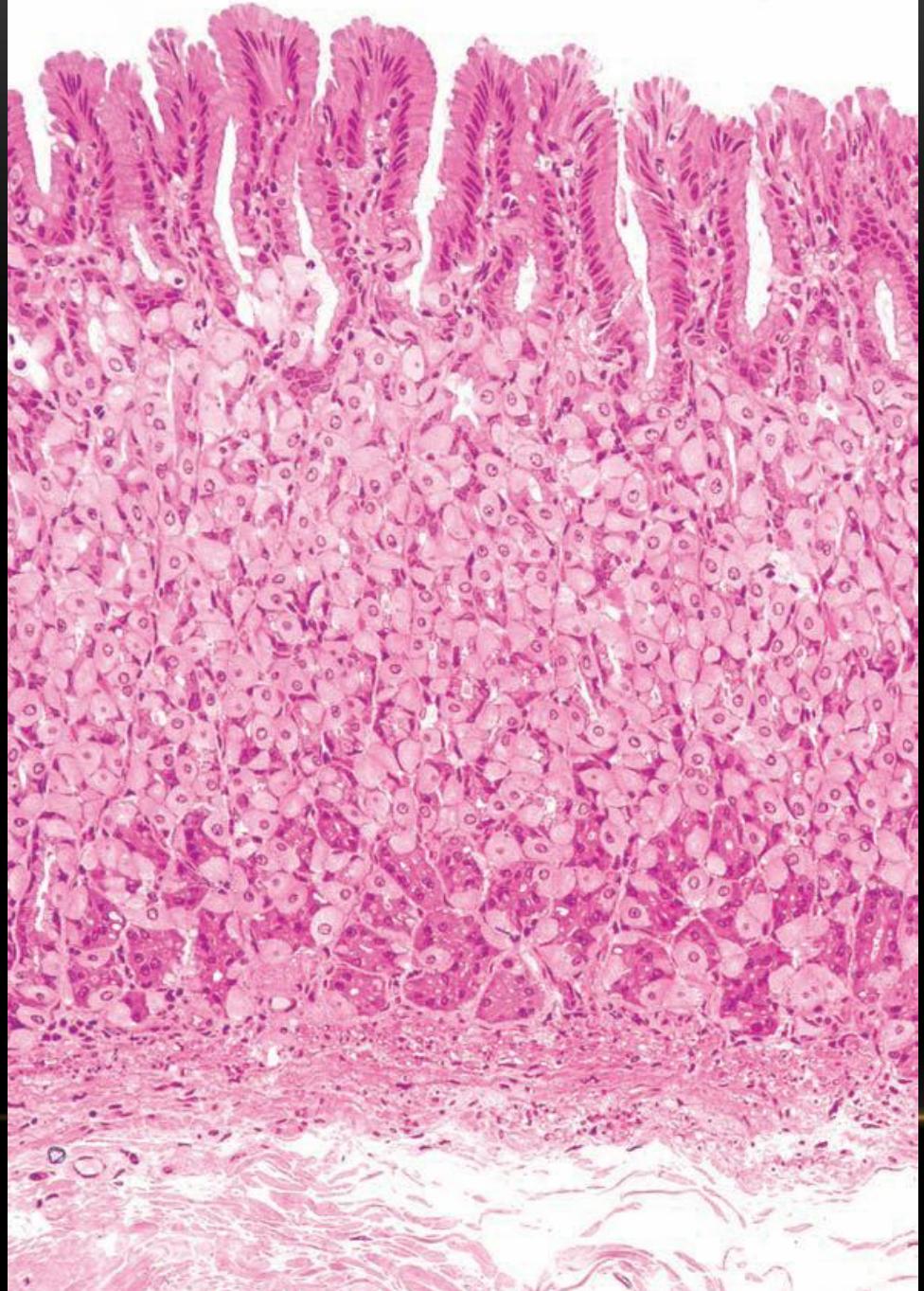


Fundic glands

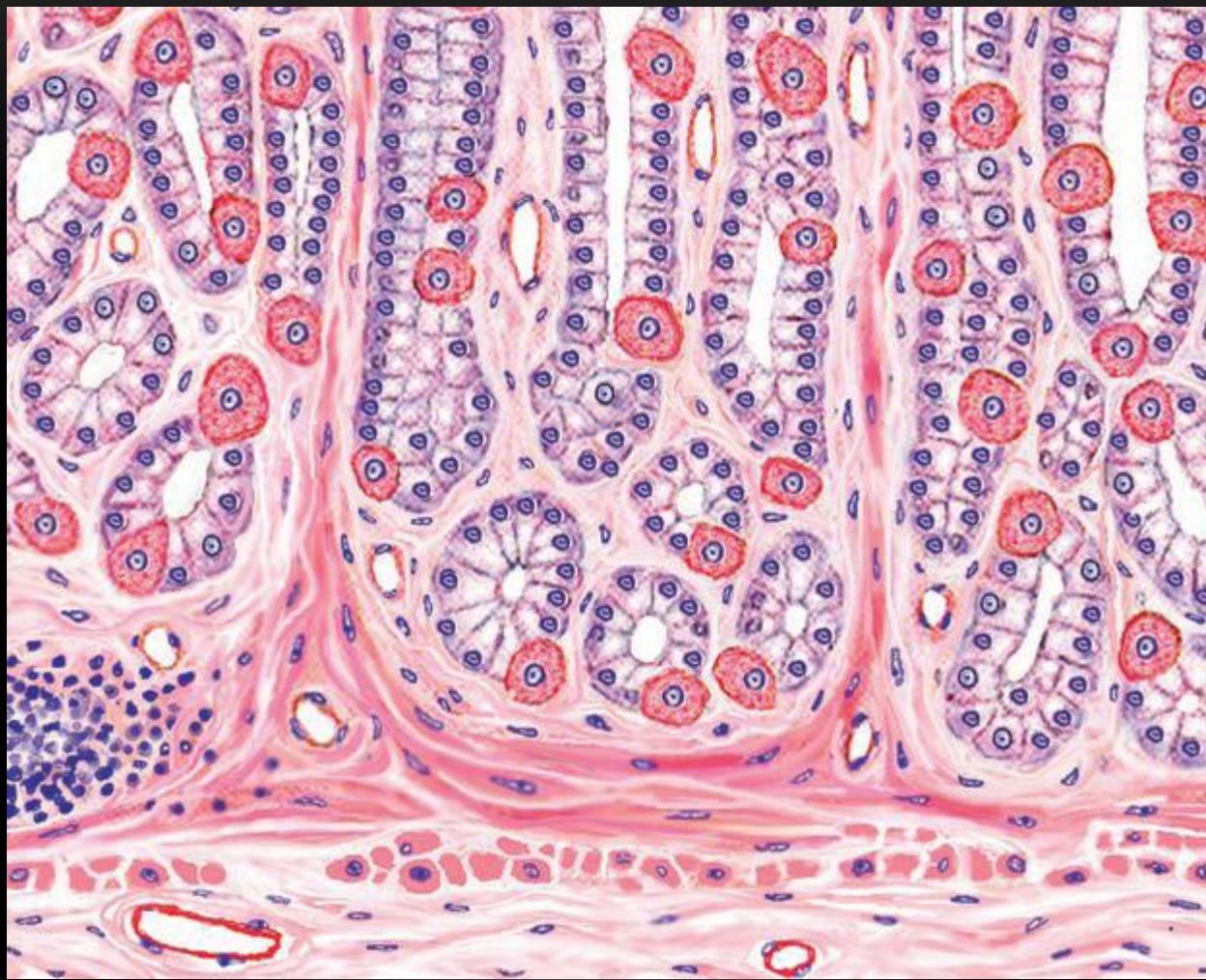
| | Cardiac | Fundus and Body | Pyloric |
|----------------------------|---|---|---|
| Epithelium | Same | Same | Same |
| Cells ** Surface mucous | Cover entire luminal surface | Same | Same |
| ** Neck mucous | Line neck region | Same | Same |
| ** Chief | Absent | Abundant in the basal part | Absent |
| ** Parietal | Absent | Abundant in the upper part of body of glands and between mucous neck cells | Few |
| ** DNES | Rare | Rare | Rare |
| Mucosal glands | Wide deep, gastric pits with short slightly coiled simple tubular glands; pits extend less than 1/2 of mucosa | Narrow shallow pits with straight, branched tubular glands; pits extend less than 1/5 of mucosa | Wide, deep pits with coiled, branched, tubular glands, pits extend > 1/2 mucosa |
| Muscularis externa | Present | Present | Present |
| Serosa | Present | Present | Present |





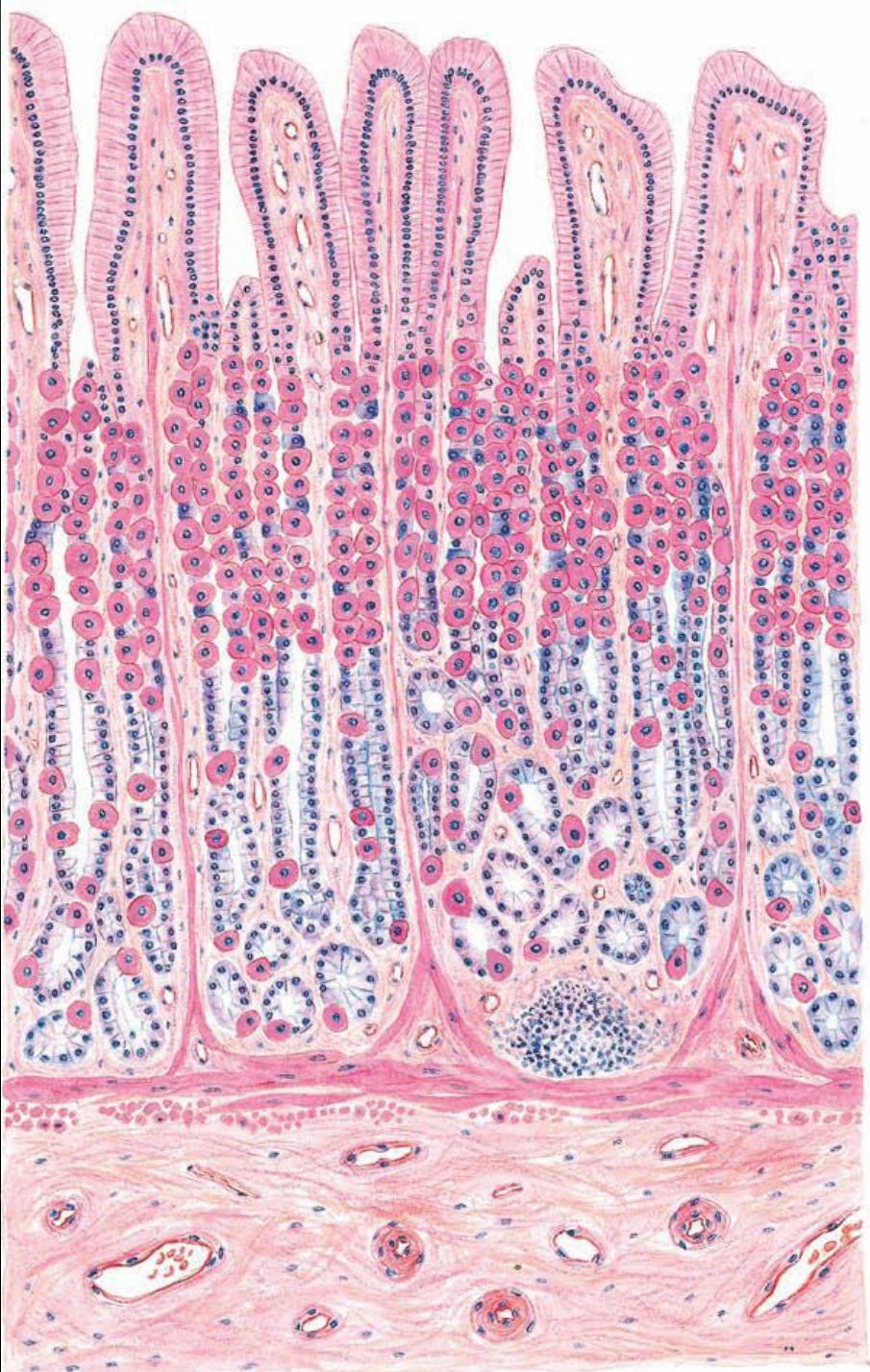


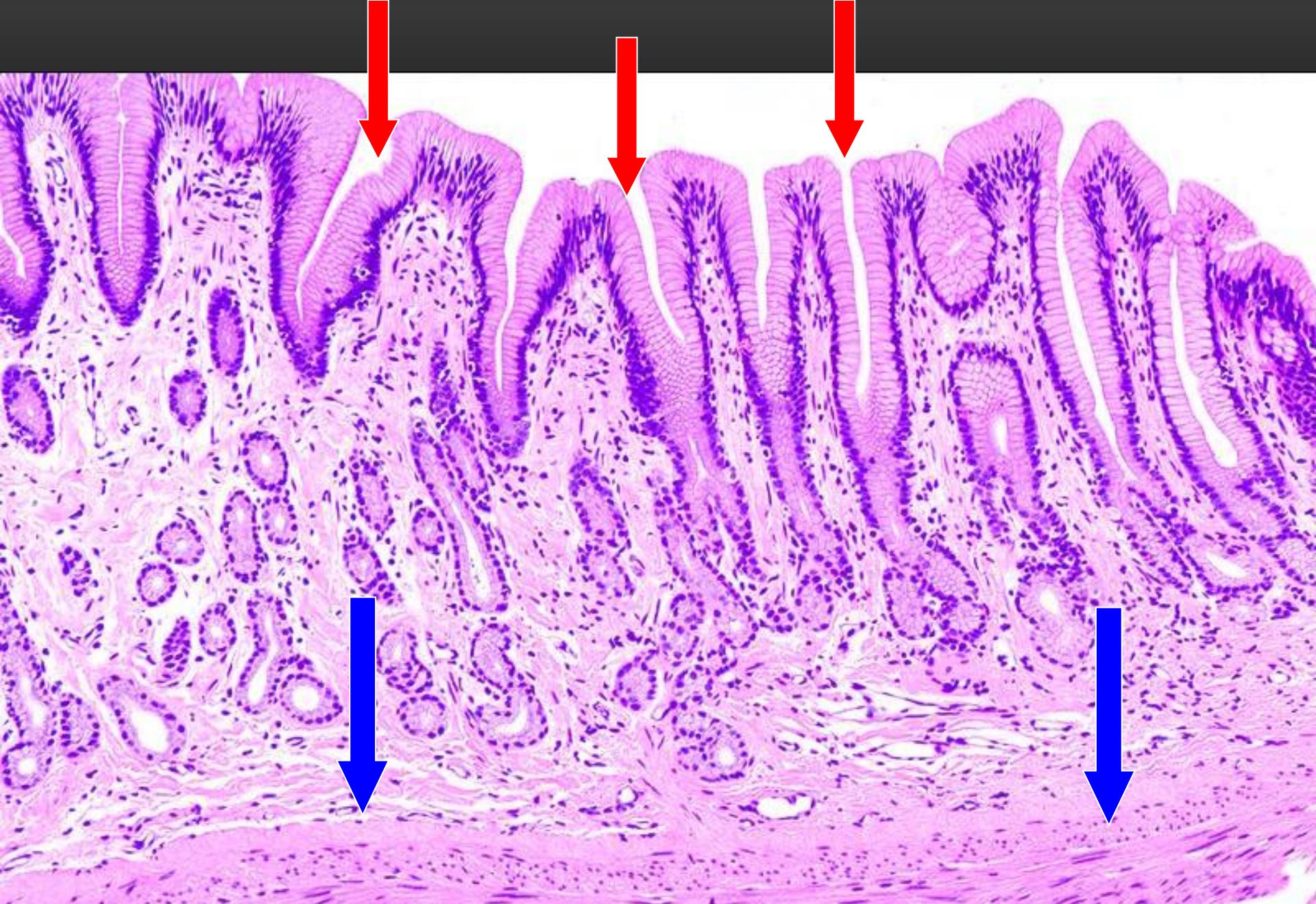






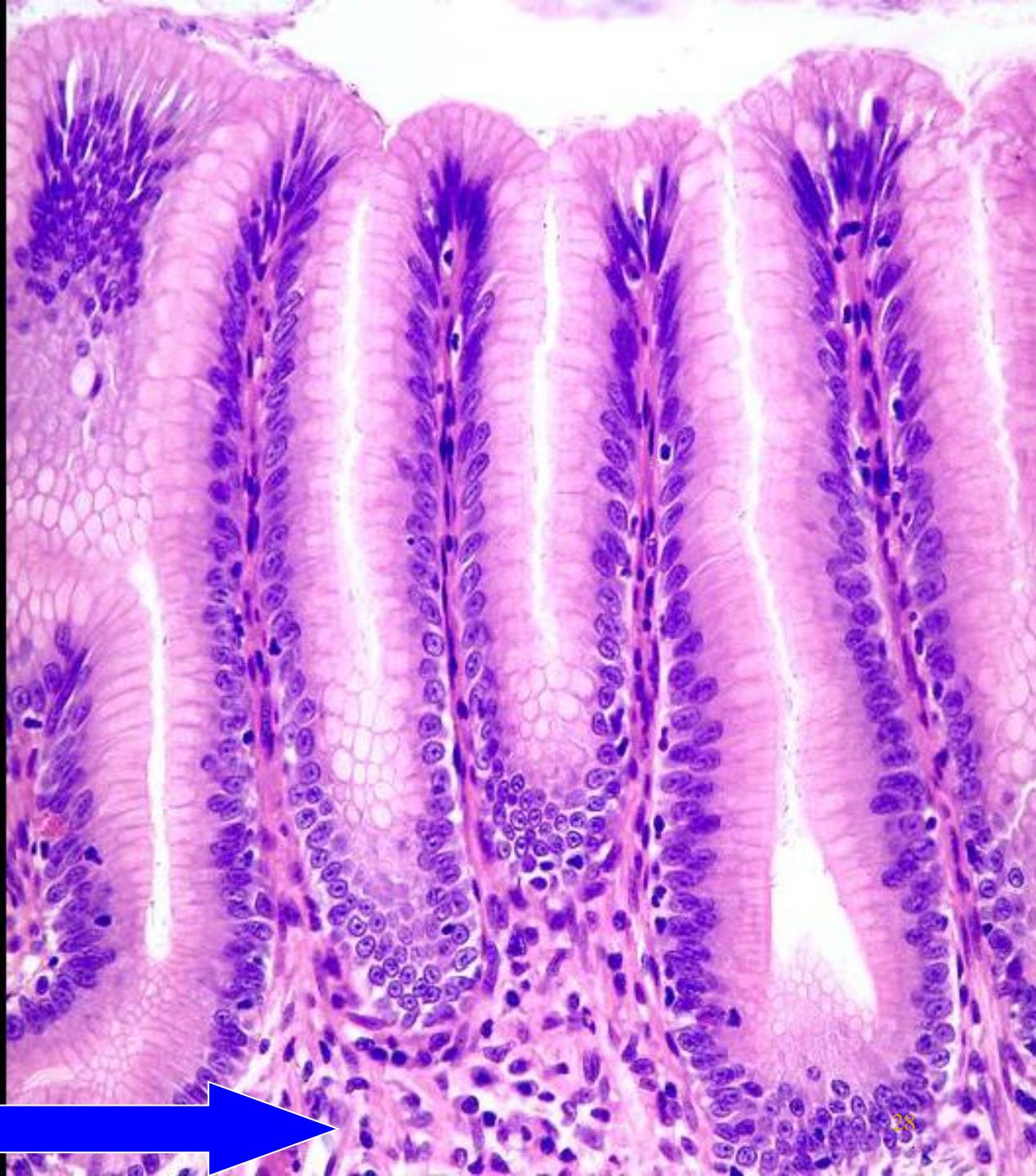


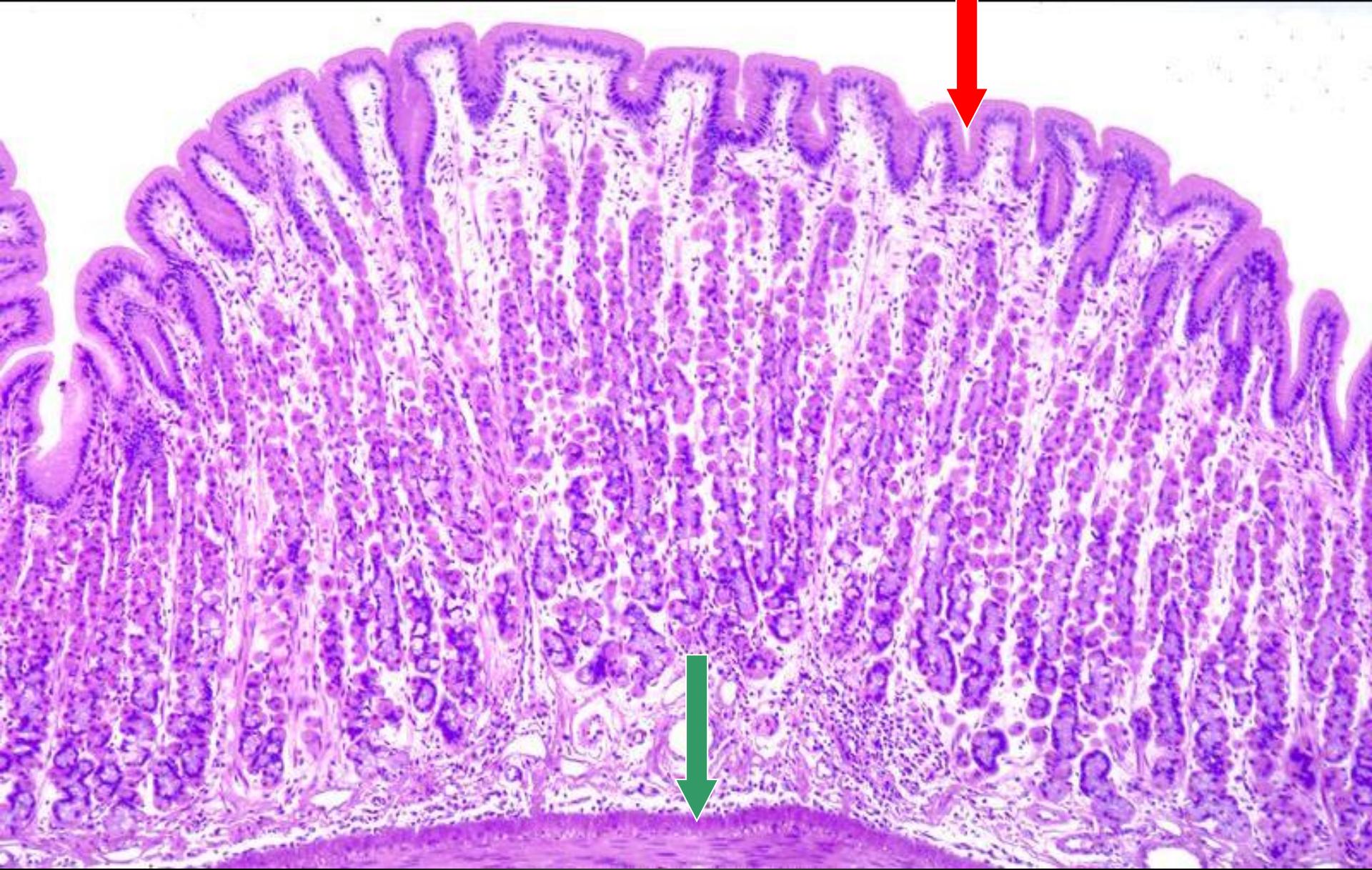




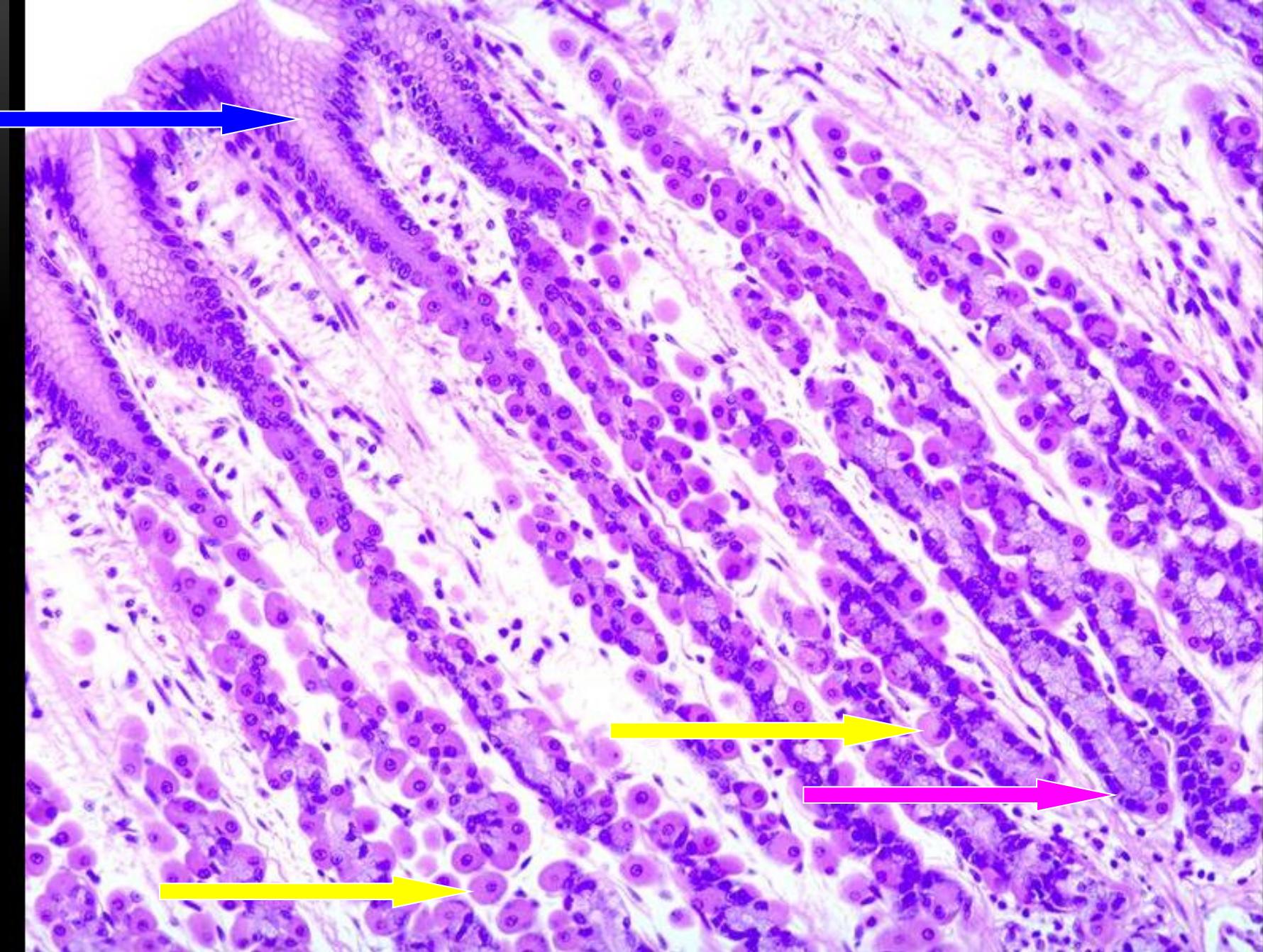
Cardiac region of the stomach

**Surface mucous
cells**

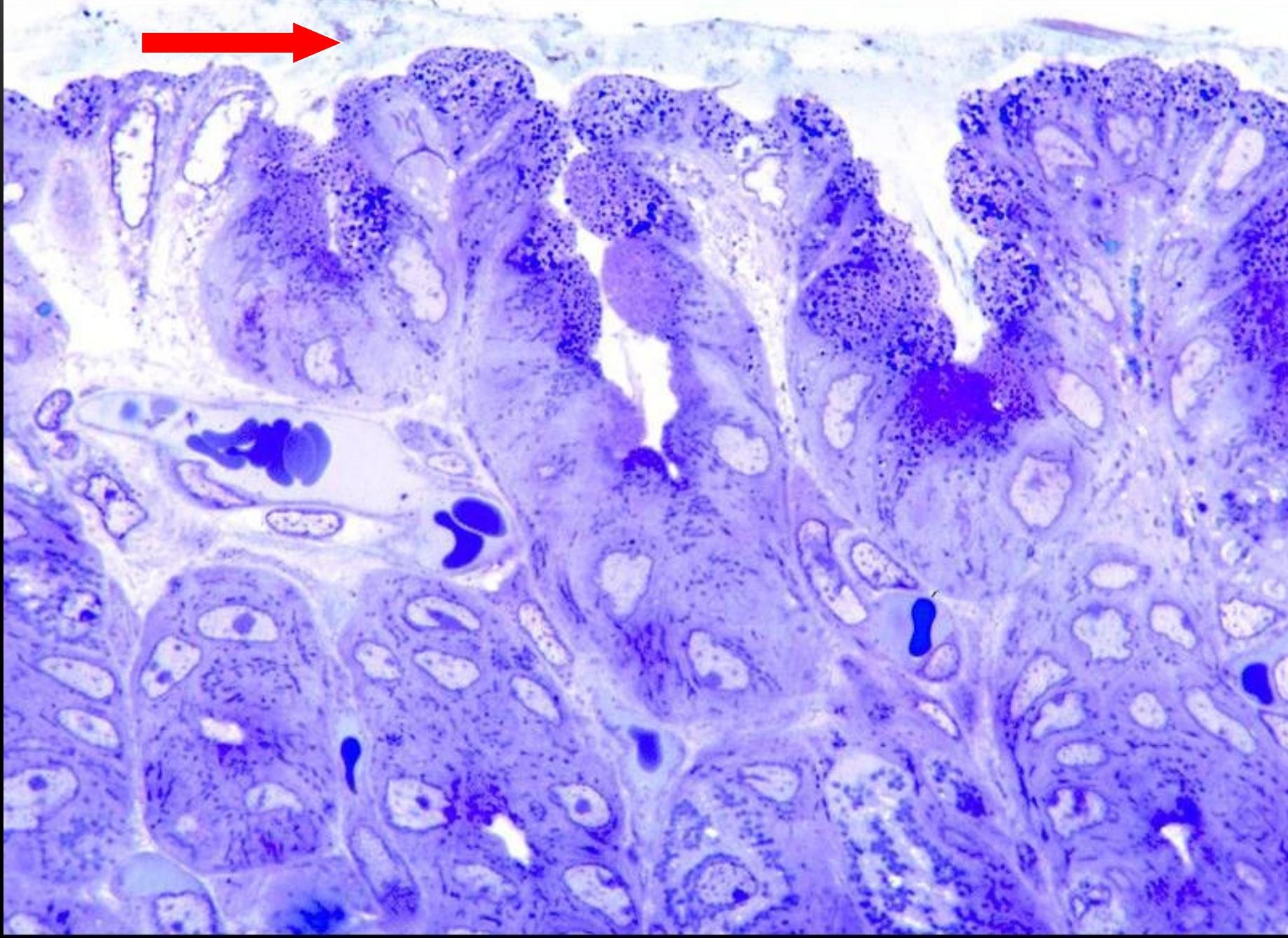


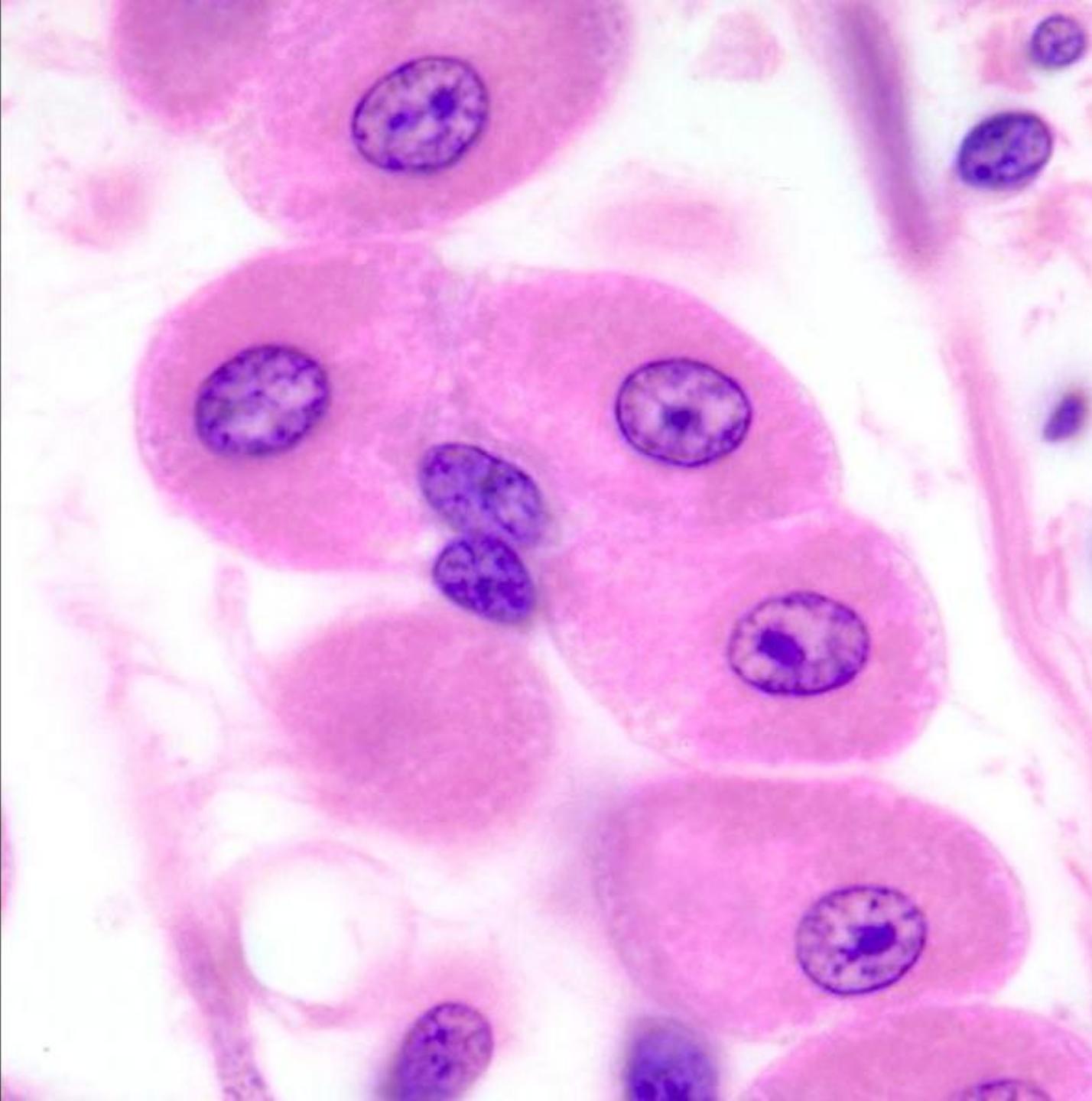


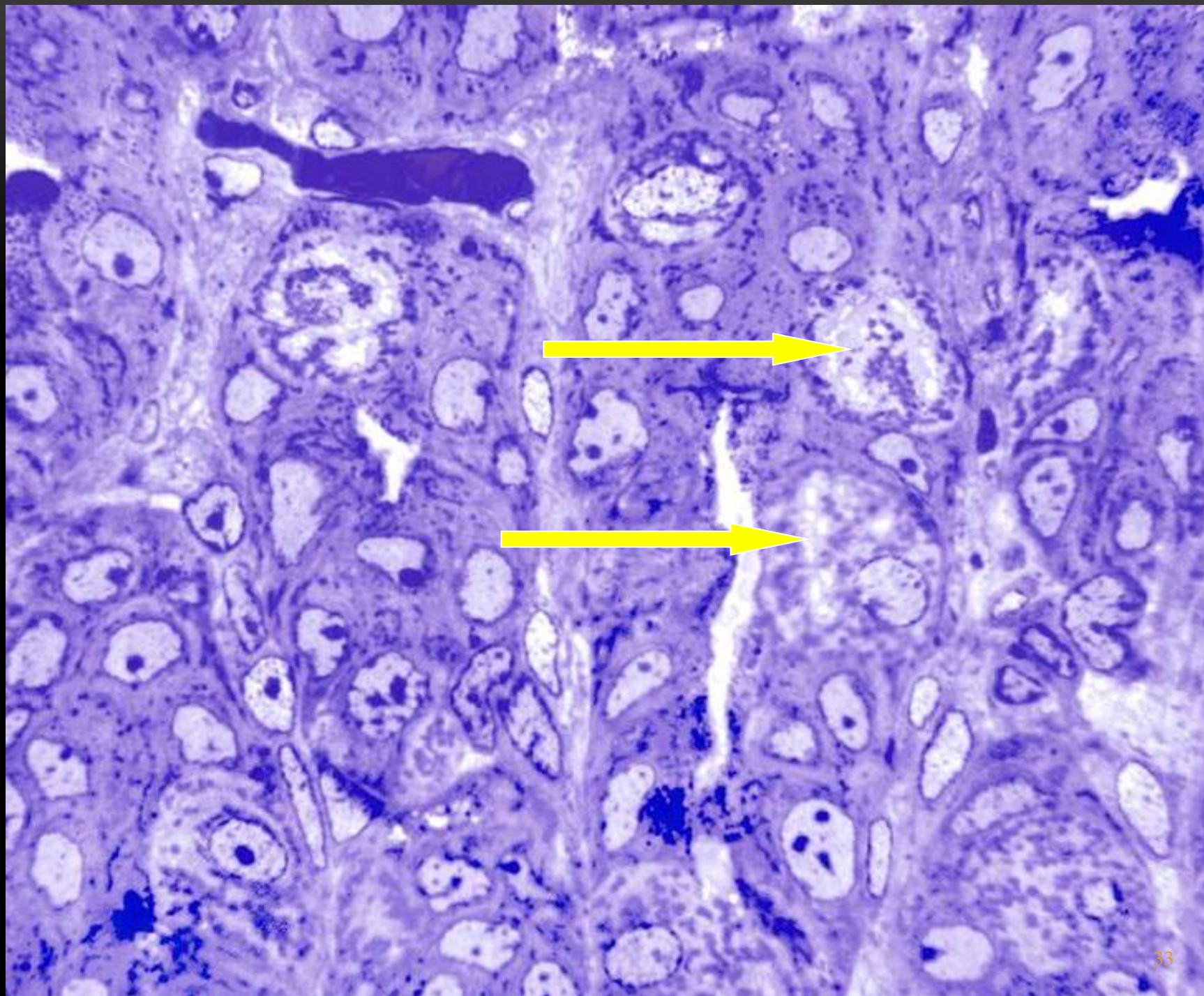
Fundus of the stomach



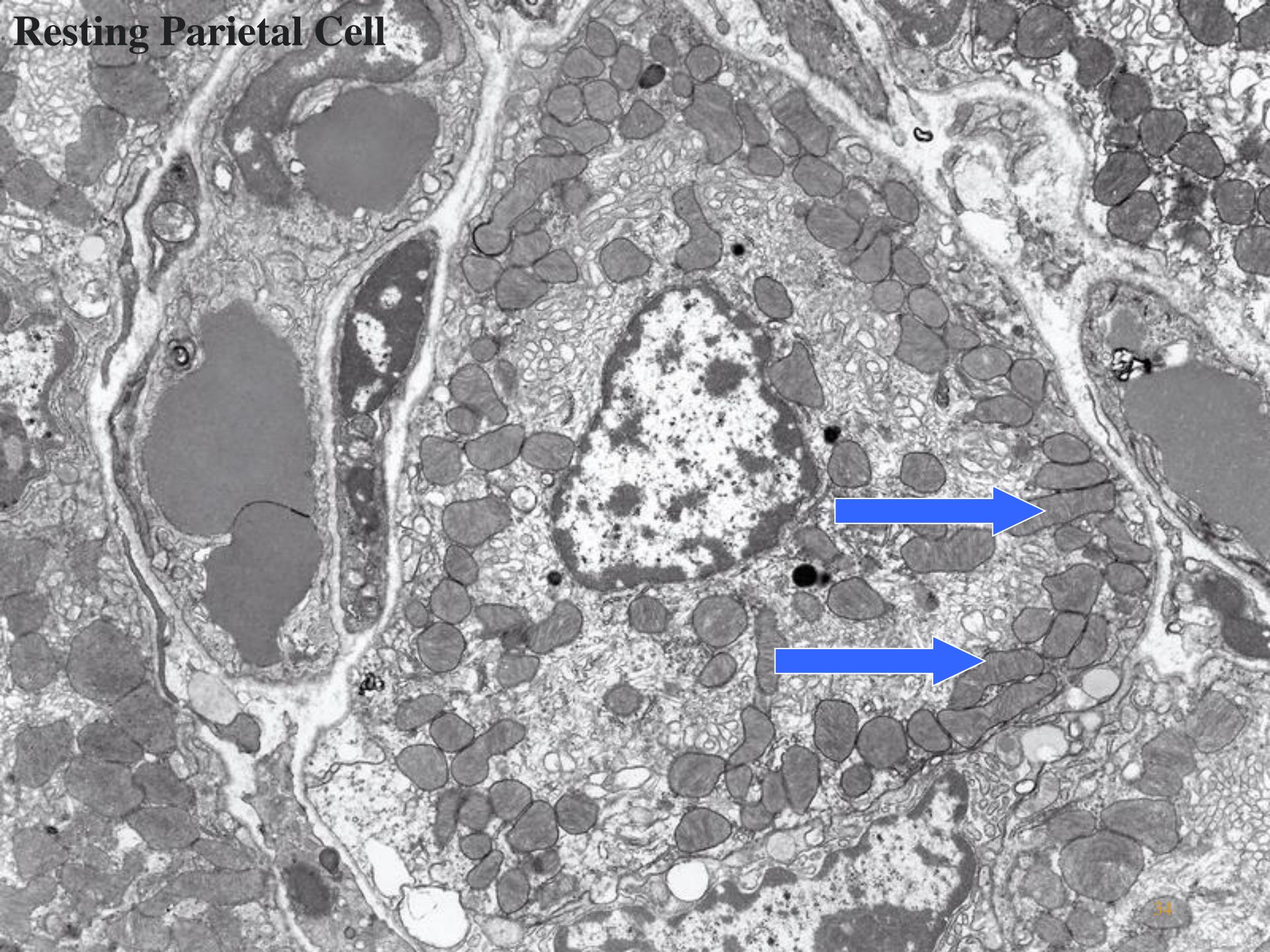
Body of gastric mucosa



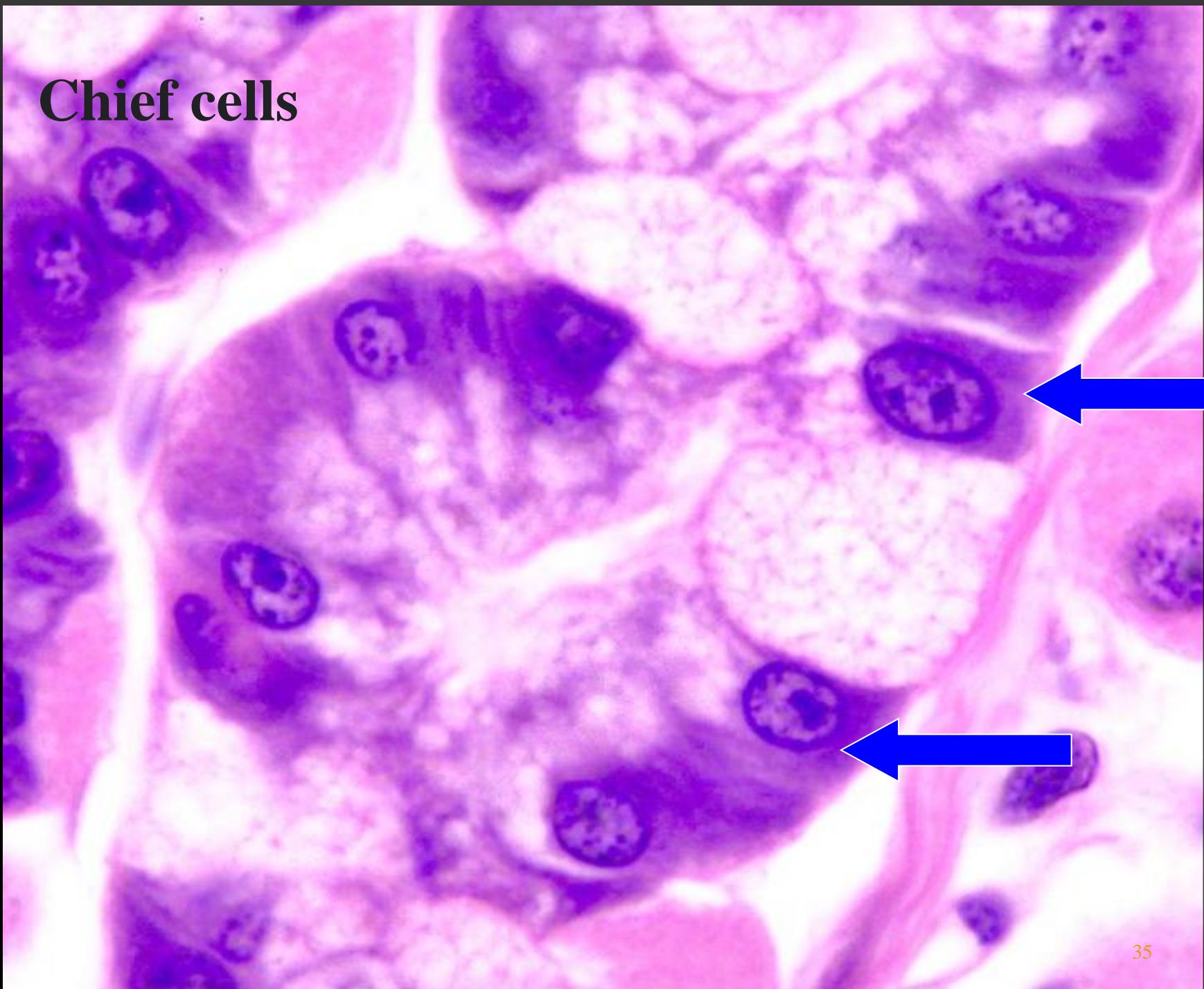


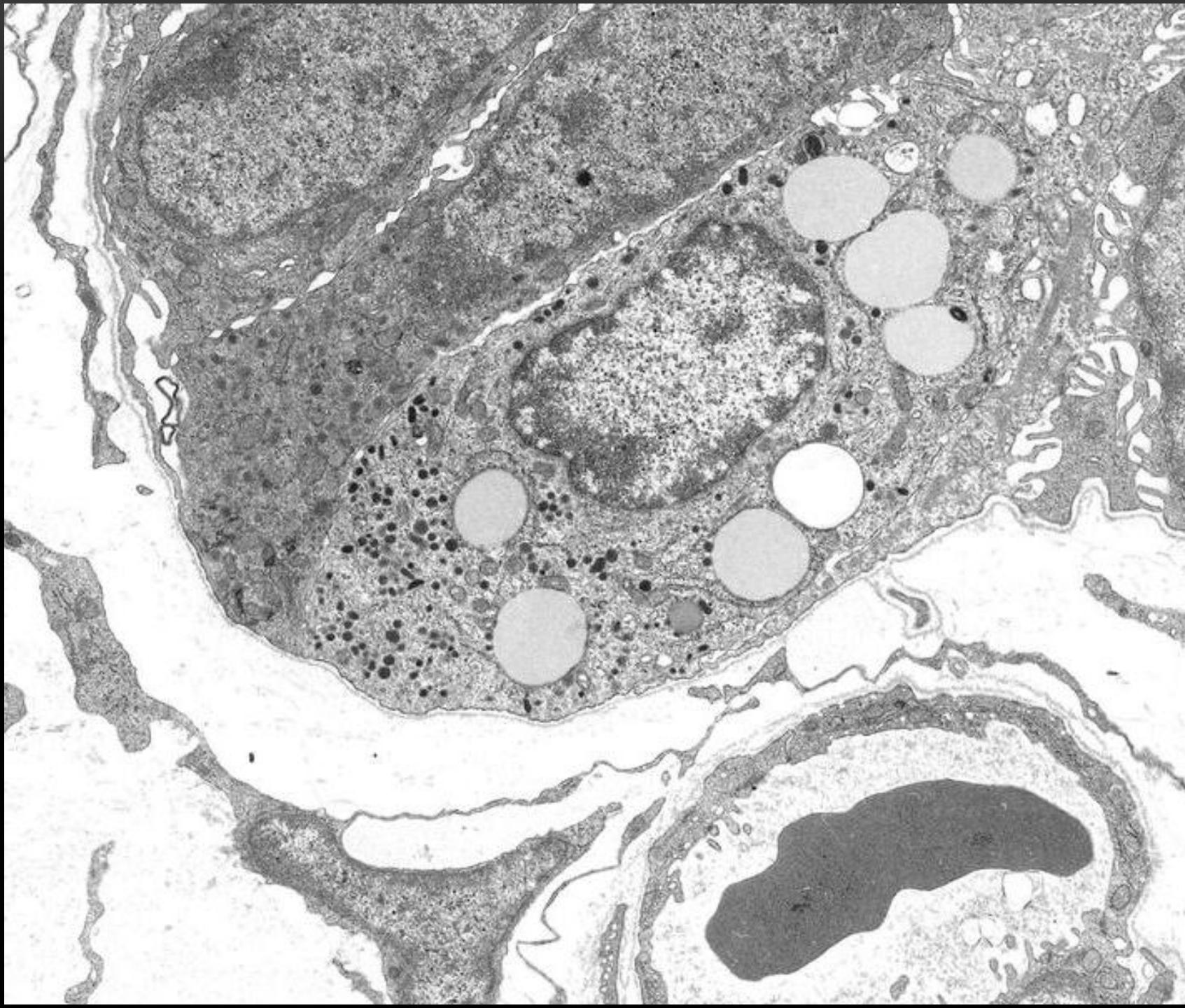


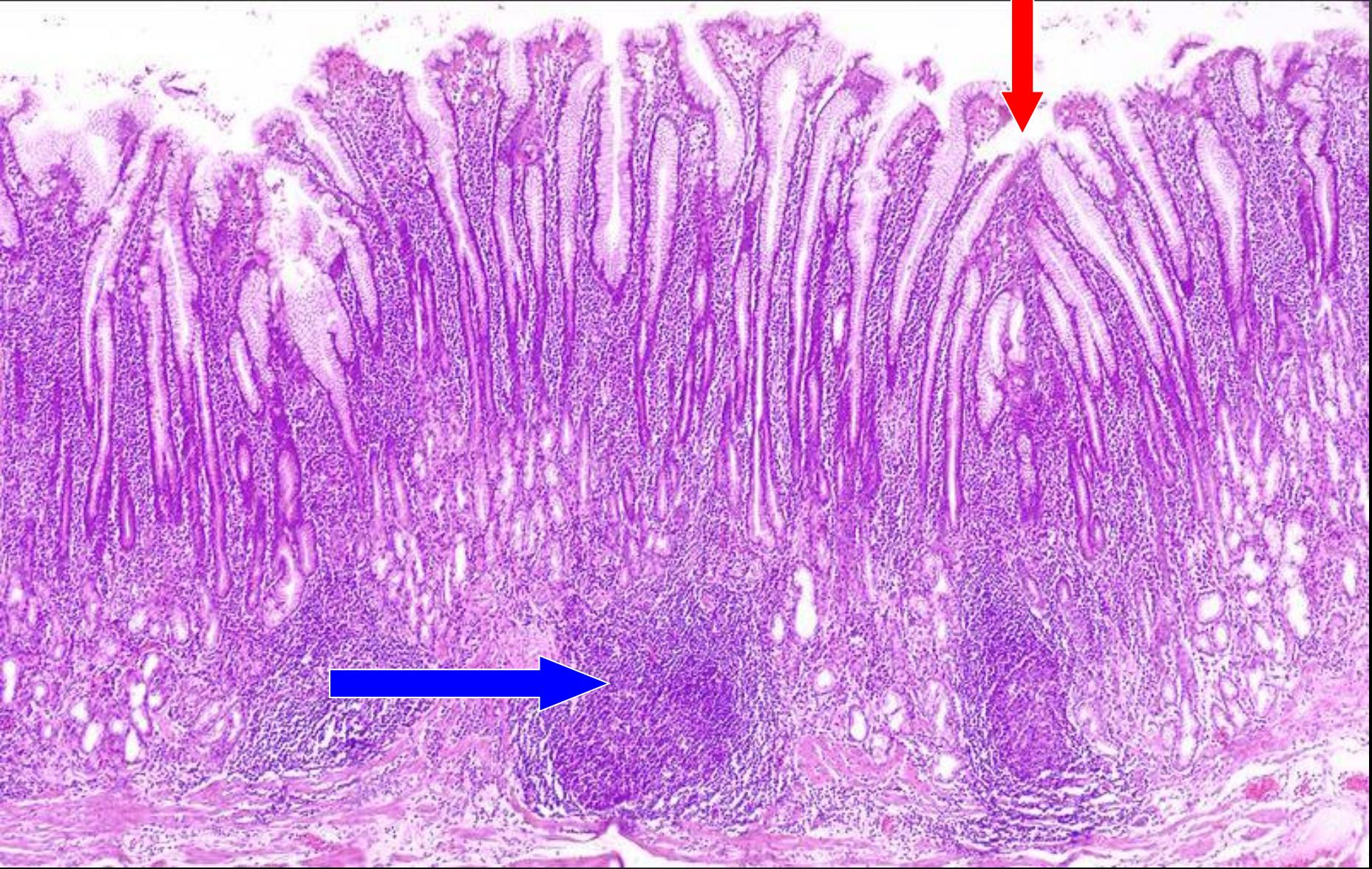
Resting Parietal Cell



Chief cells







Pyloric antral mucosa

Pyloric antrum



PAS stain of the antrum
Mucous cells in the pits stain
darker than those in the glands

