

EPITHELIUM LAB

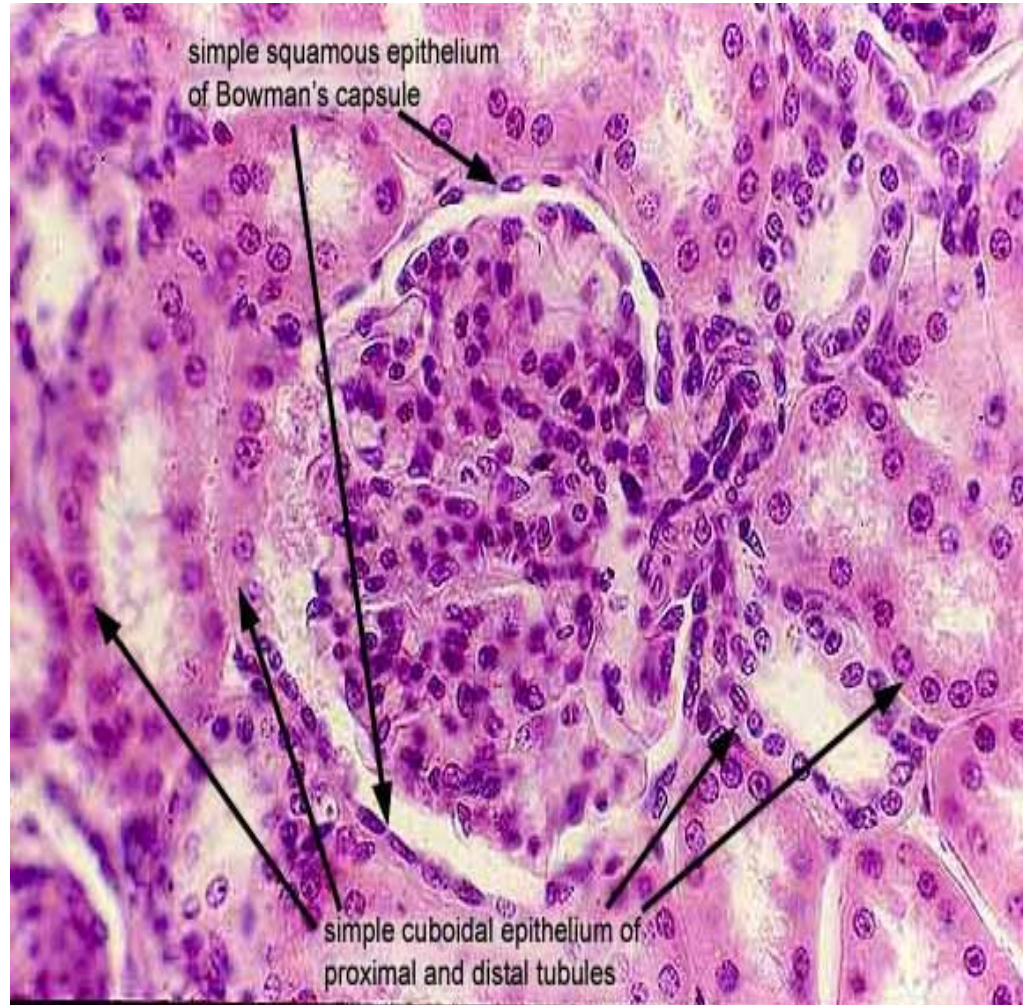
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Associate professor of Histology & Cell biology

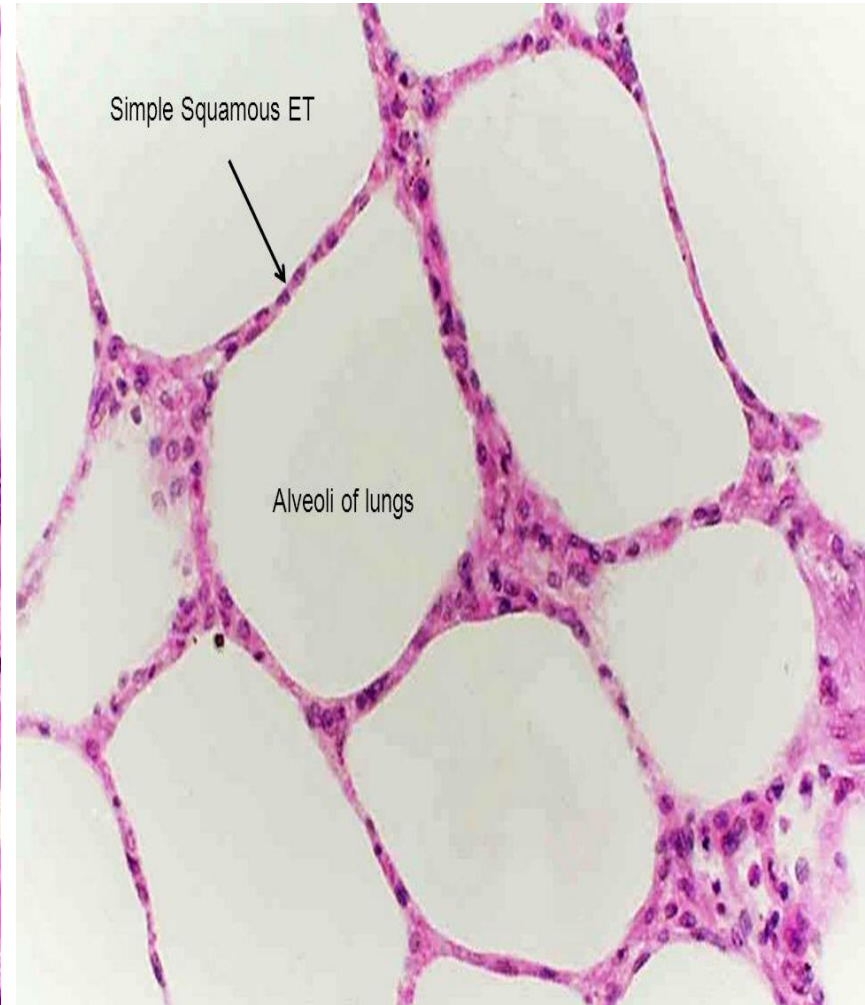


Simple Squamous Epithelium

(Bowman's capsule- kidney)



(Lung alveoli)

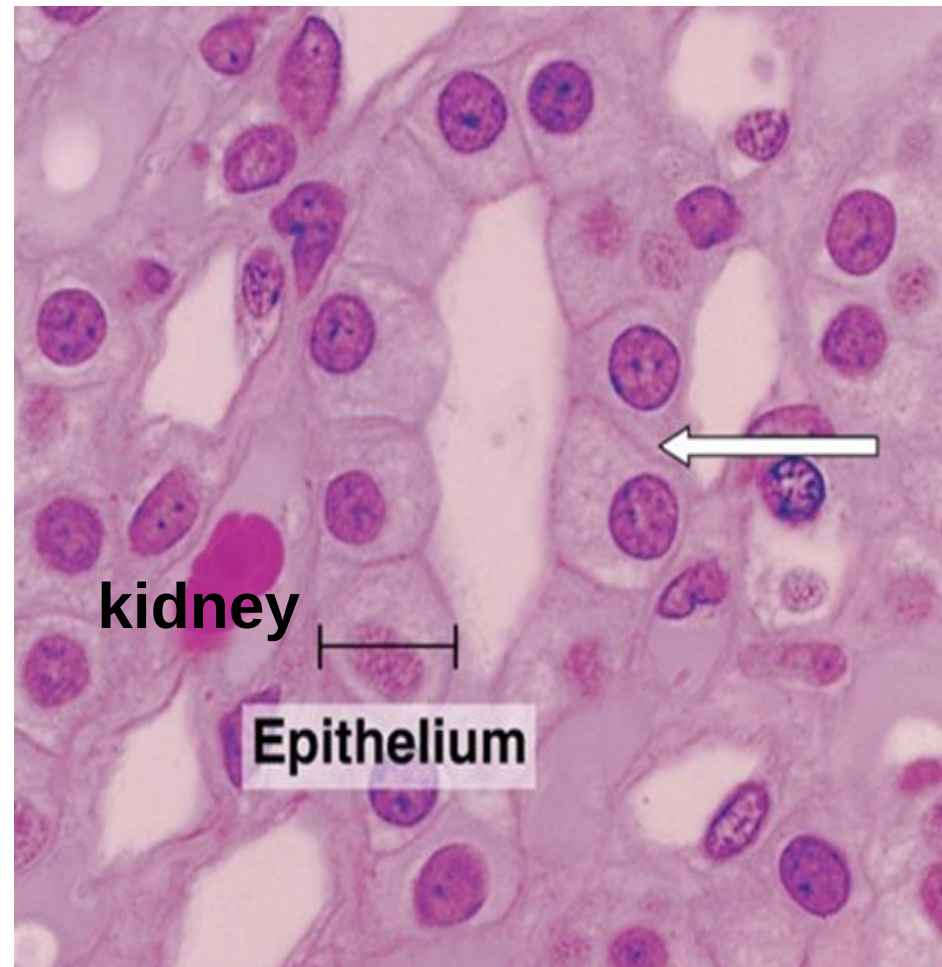
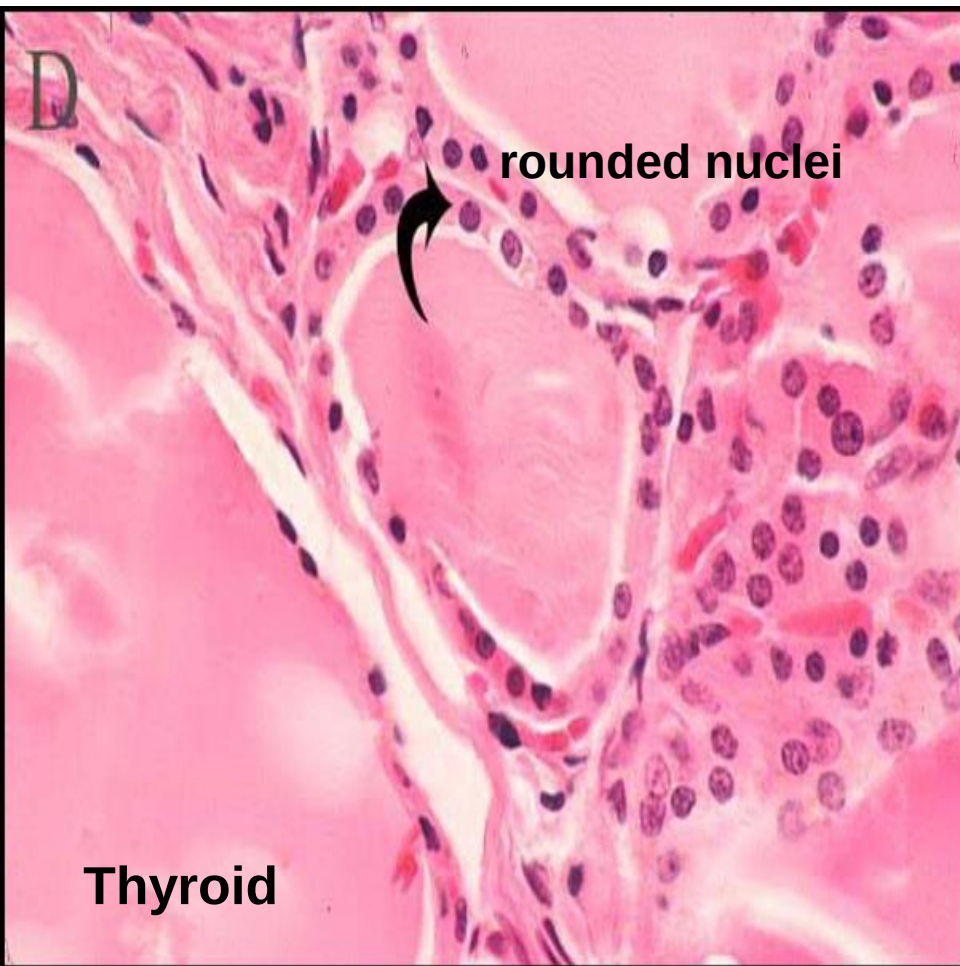


Simple Squamous Epithelium

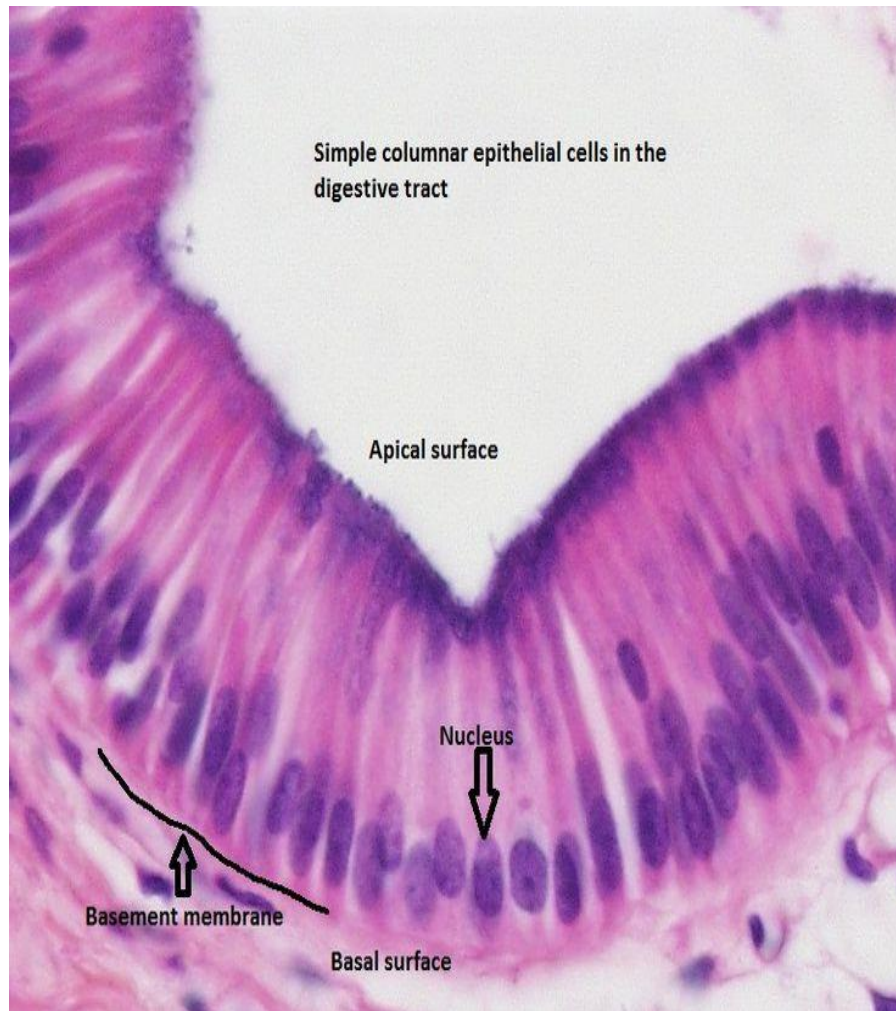
Endothelium



- **Simple cuboidal epithelium**



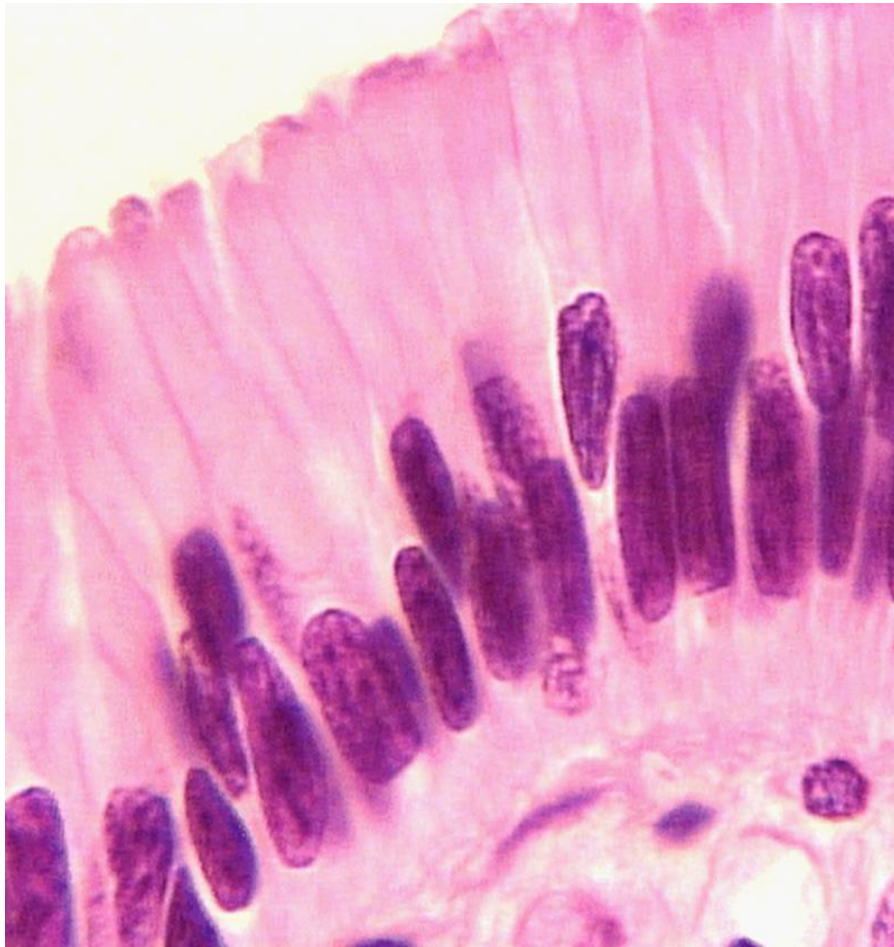
Non-ciliated simple columnar epithelium



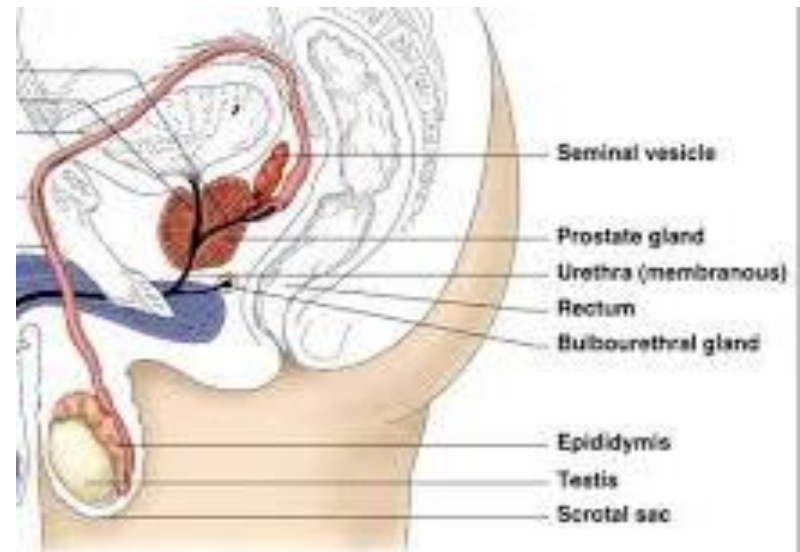
Ciliated simple columnar epithelium



a- Pseudostratified columnar epithelium non ciliated



- **Sites:** Male genital tract – large ducts of glands: (secretion)



b. Pseudostratified columnar epithelium ciliated

Pseudostratified columnar:

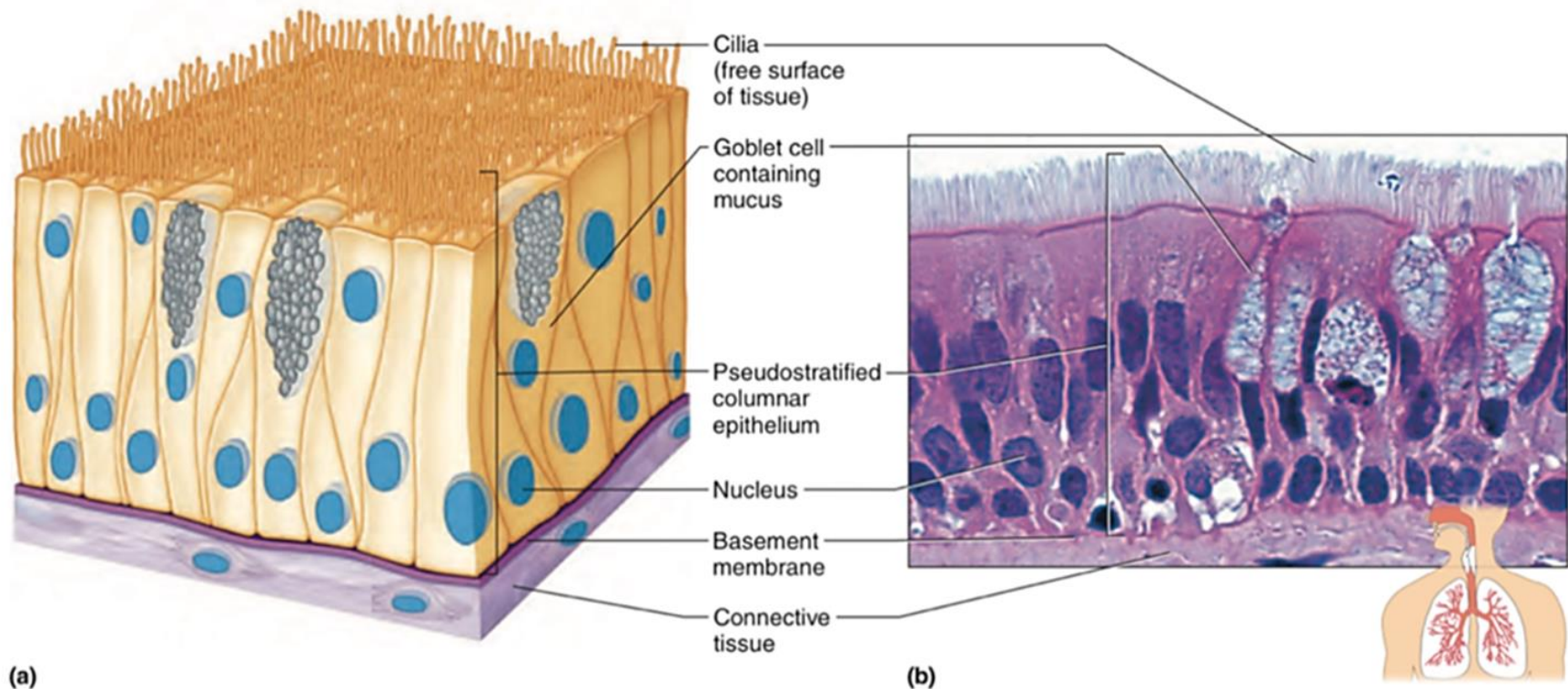
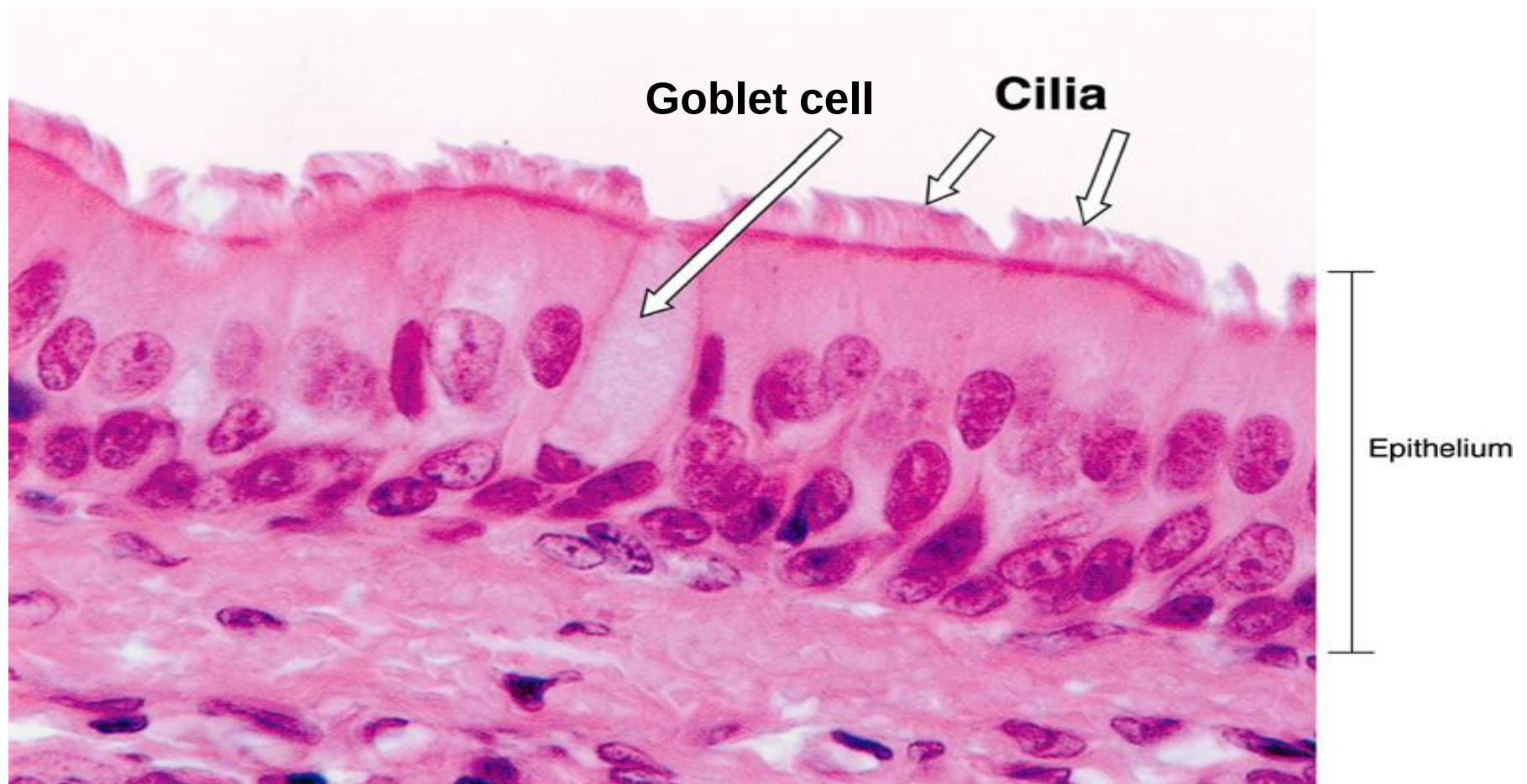


FIGURE 5.5 **AP|R** Pseudostratified columnar epithelium appears stratified because the cell nuclei are located at different levels (1,000 $\times$).

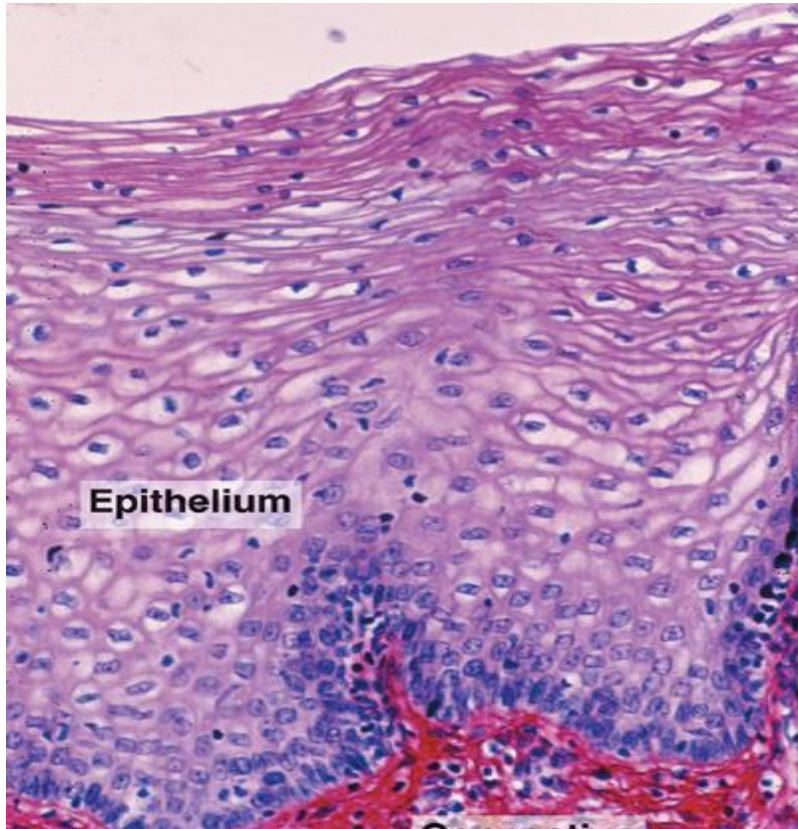
b. Pseudostratified columnar epithelium ciliated

Sites: Nose- Trachea



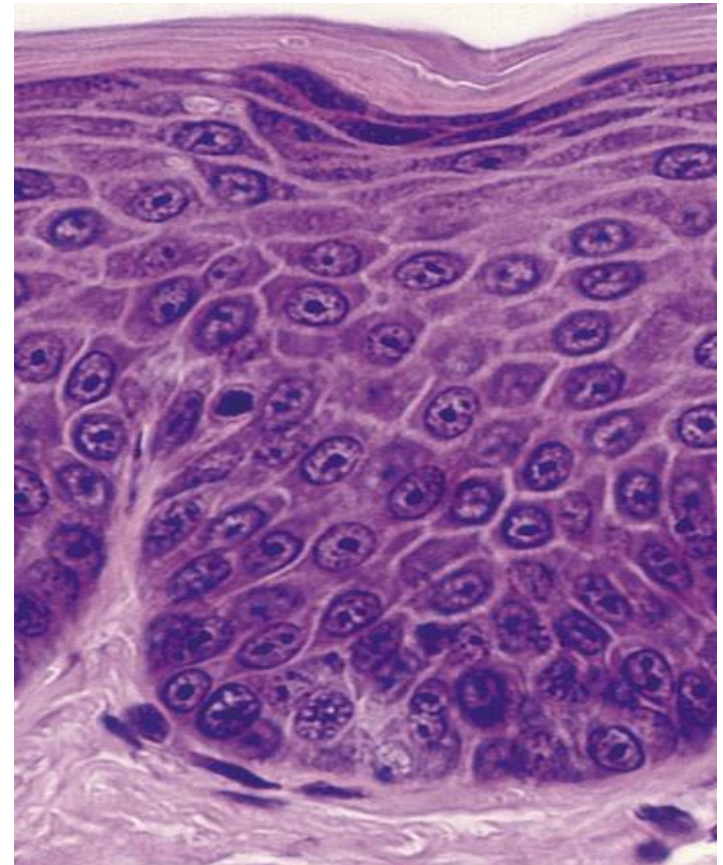
Stratified squamous epithelium

Non Keratinized



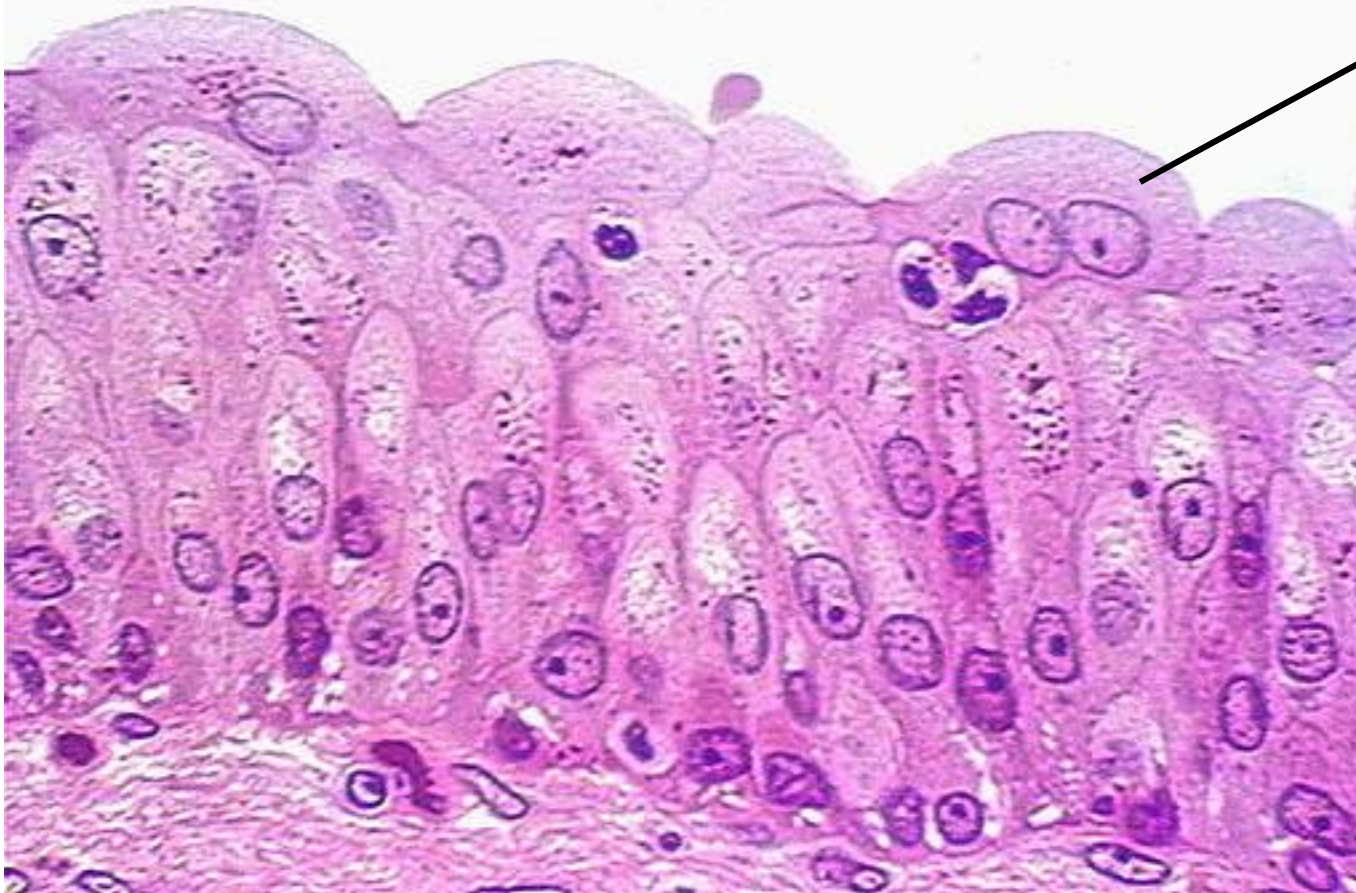
Oesophagus- vagina

Keratinized



skin

Transitional epithelium

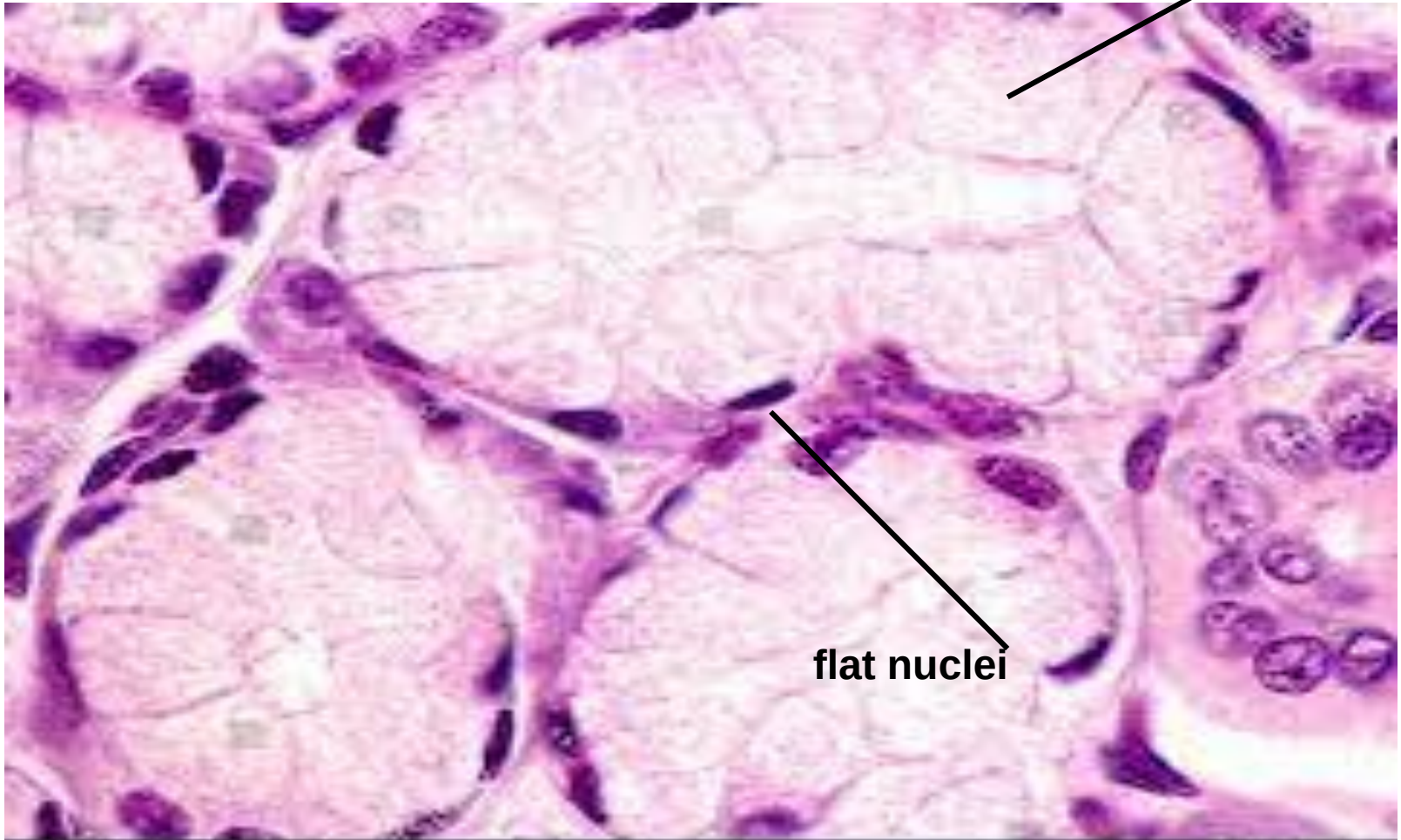


Dome
shape
cells

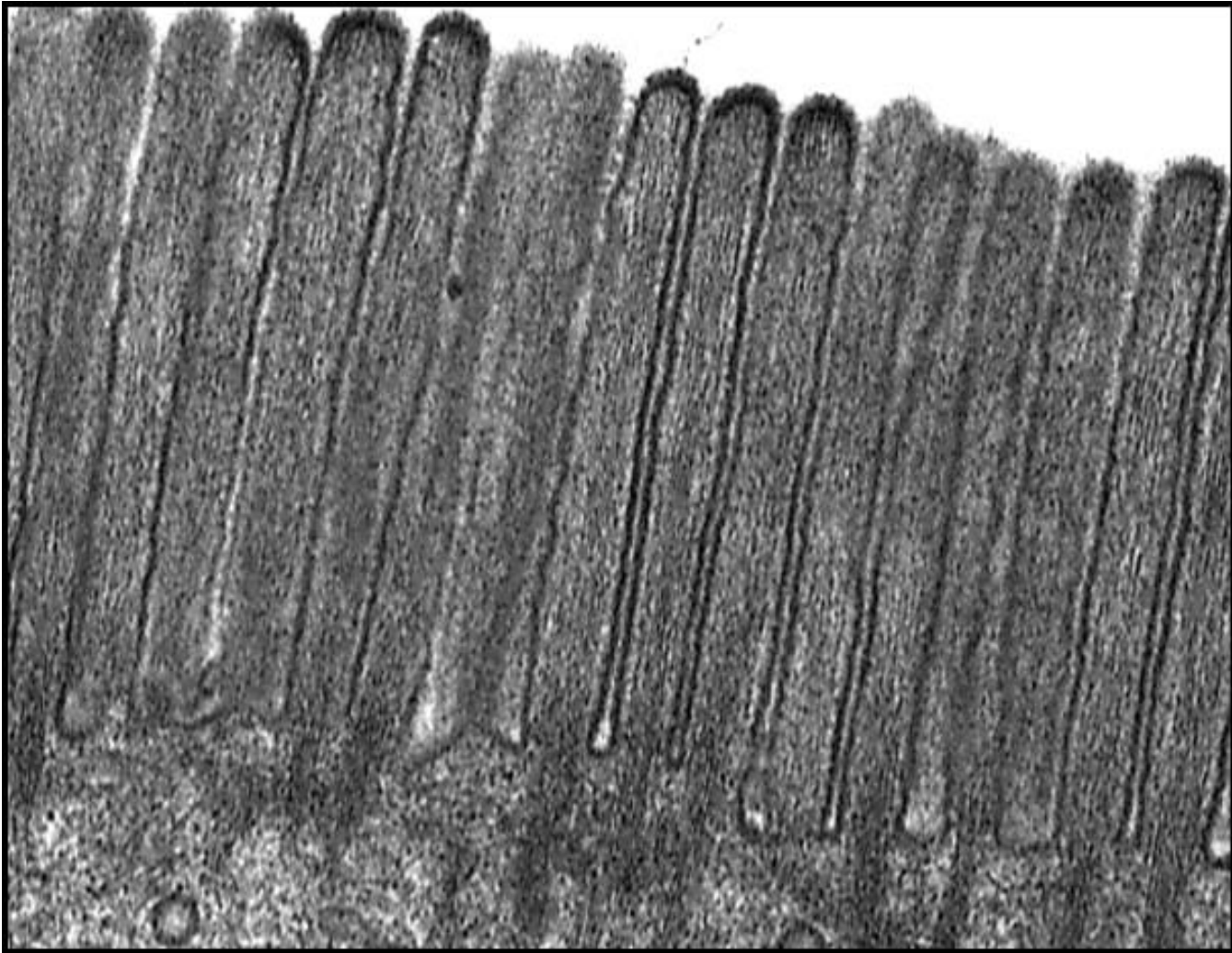
(urinary bladder - empty)

Mucous glands

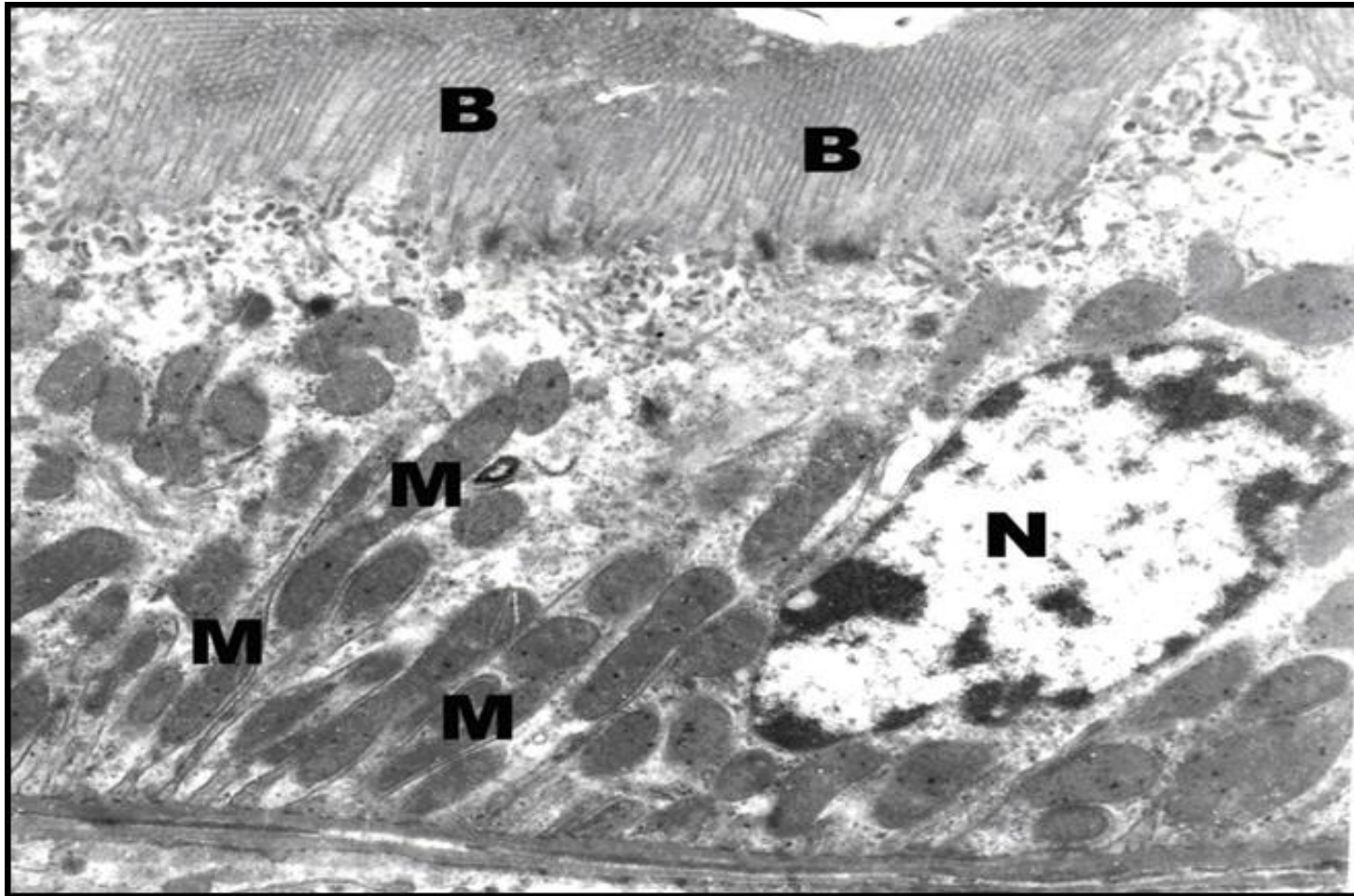
translucent
secretory
granules



Microvilli



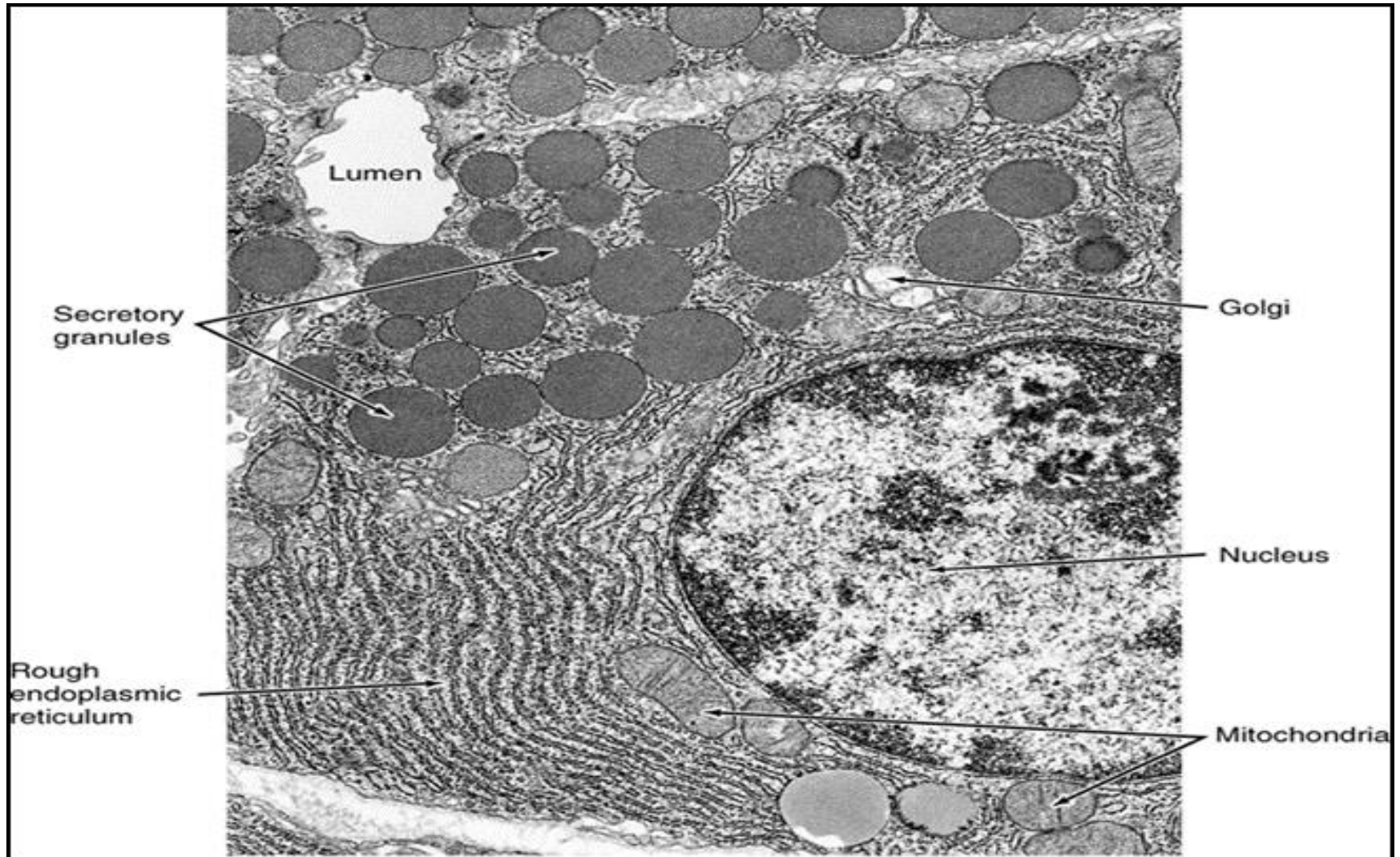
Ion transporting cell



B= Brush border
N= Nucleus

M= Mitochondria

Protein secreting cell



Goblet cell



Steroid secreting cell



