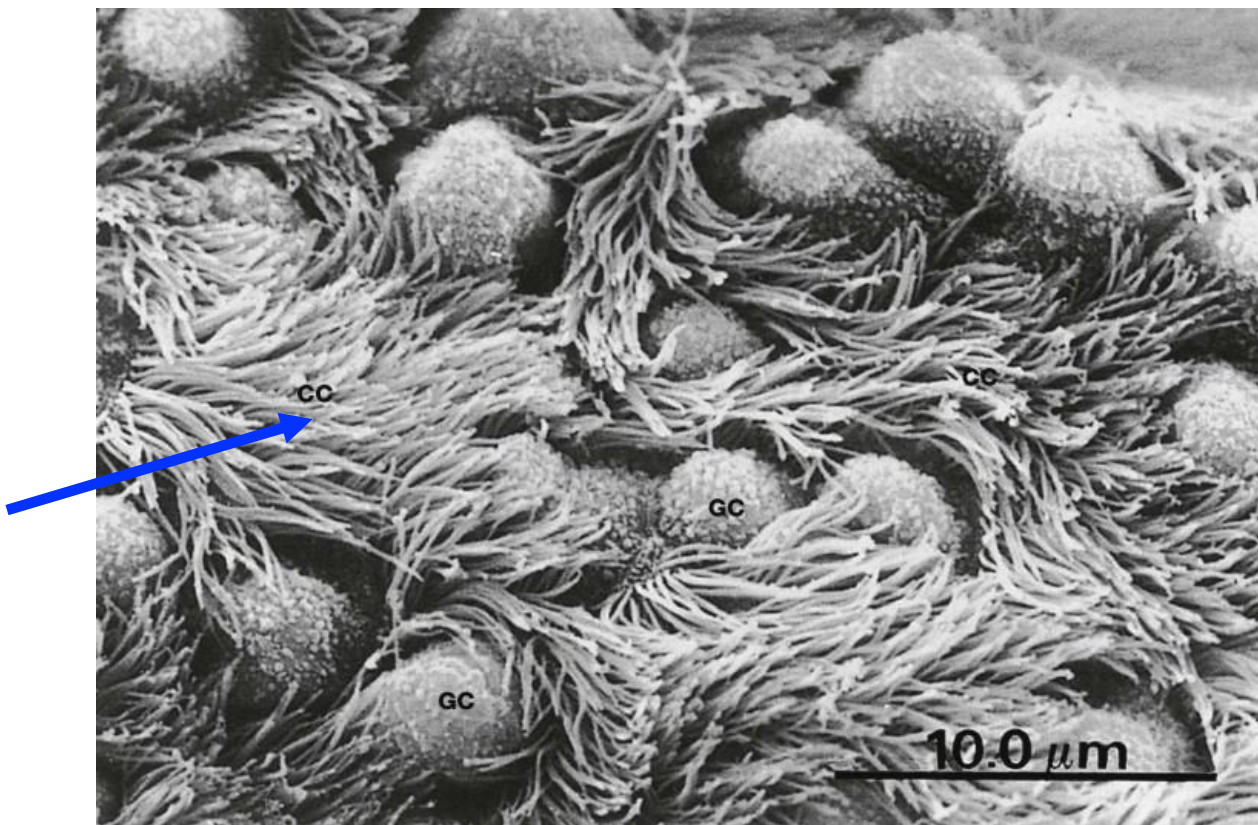
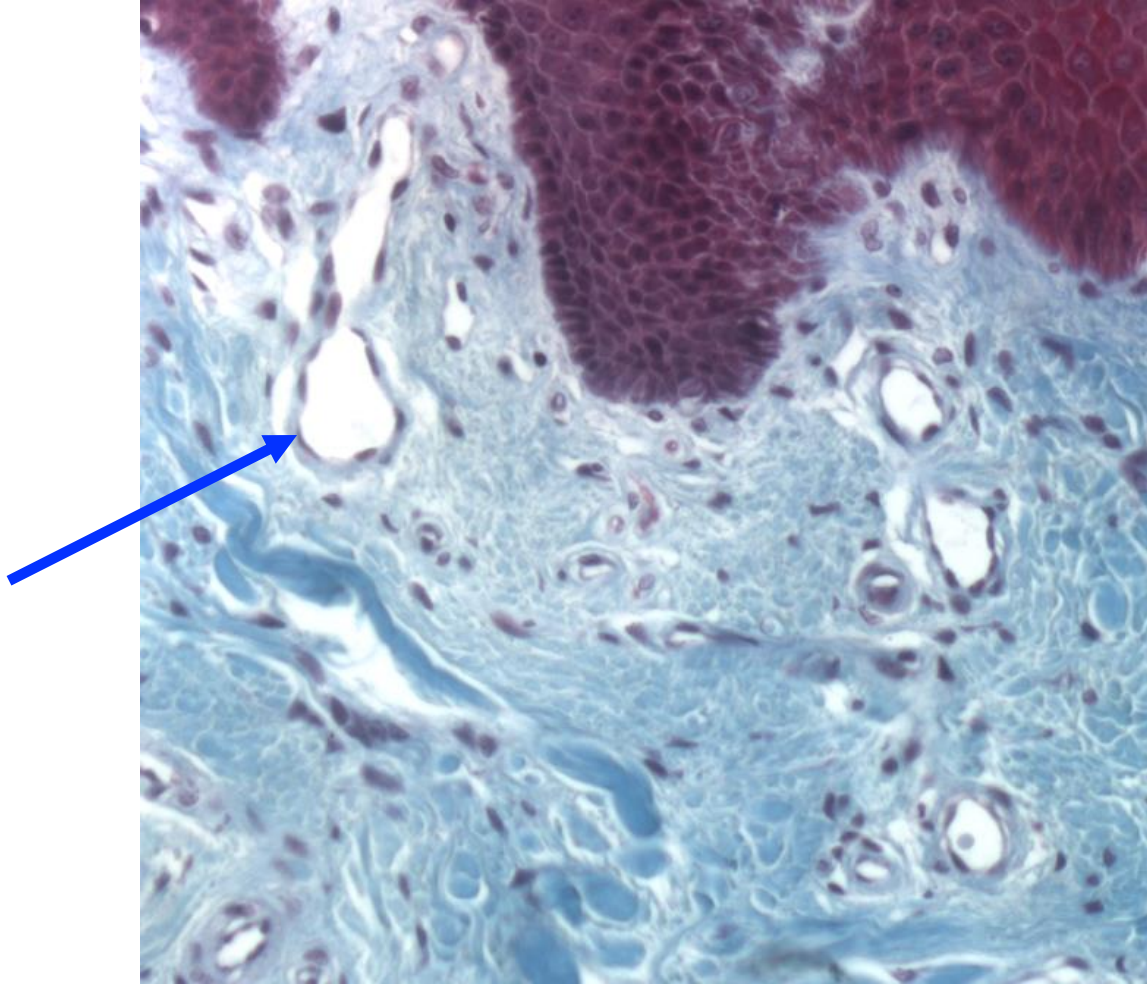


Quiz Section Test 1-AA
Answers are given in red.

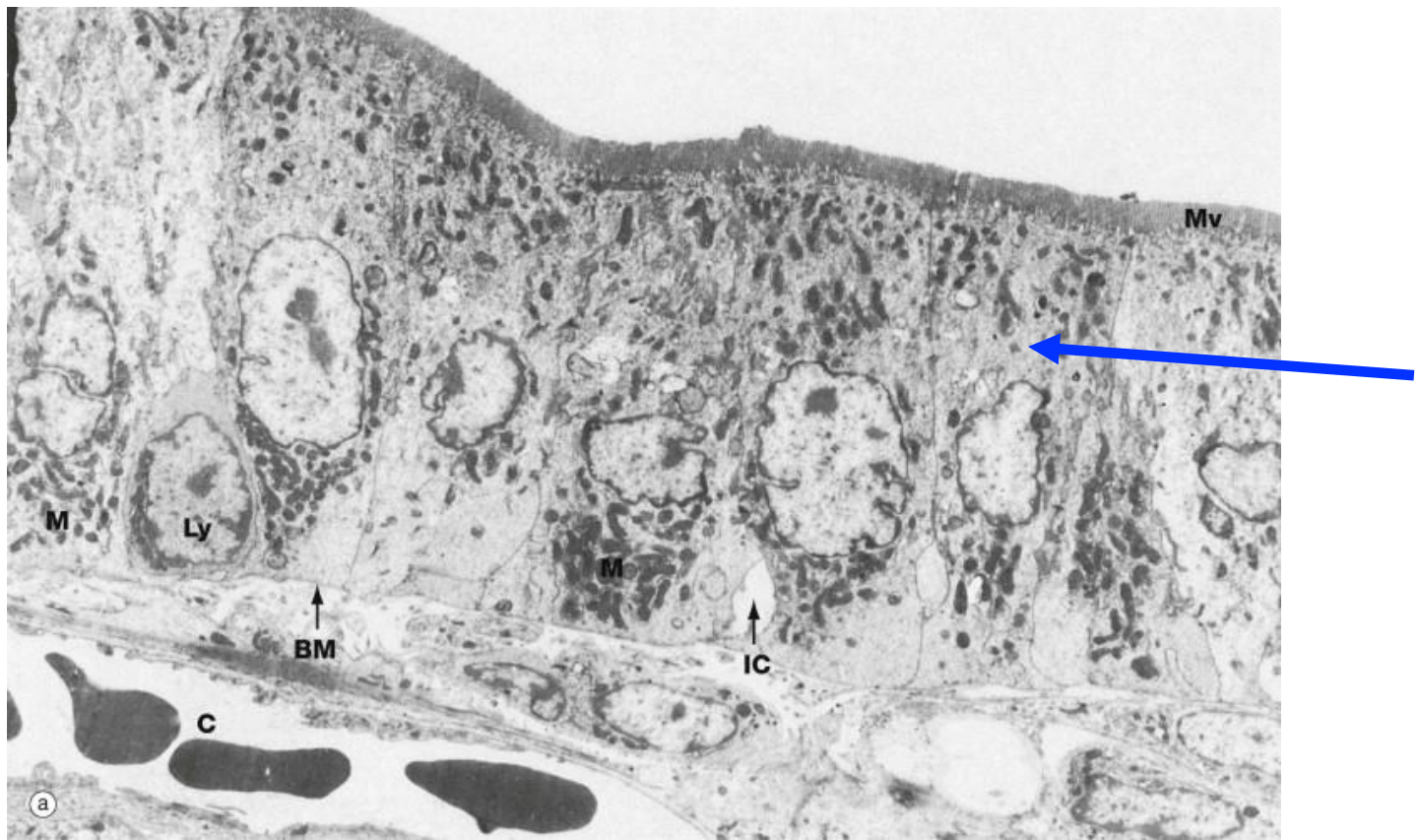


1. Name the structures indicated by the arrow.

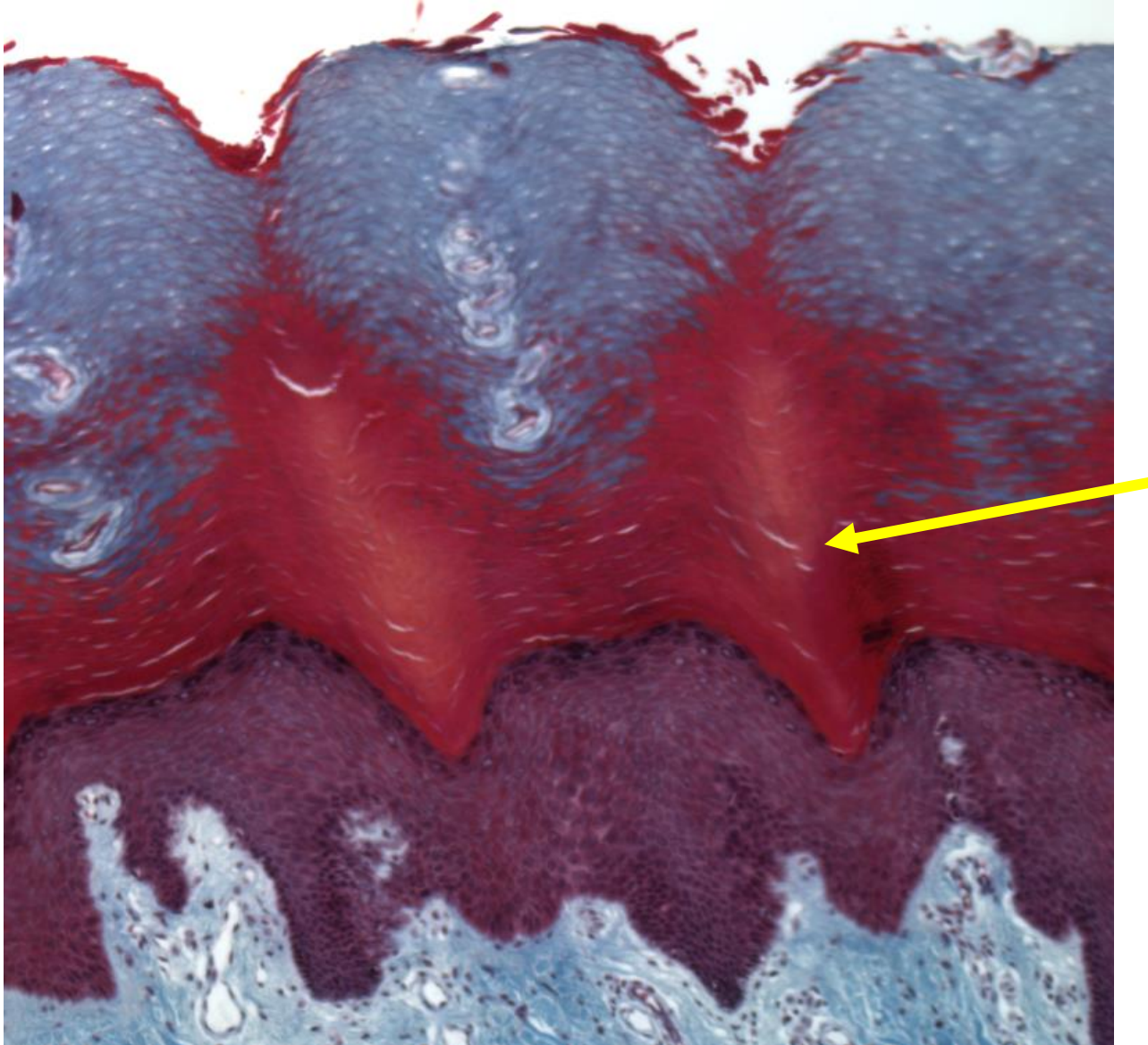
cilia



2. Which of the following is the type of epithelium shown by the arrow?
- a. **simple squamous epithelium**
 - b. stratified cuboidal epithelium
 - c. simple columnar epithelium
 - d. pseudostratified ciliated epithelium
 - e. stratified squamous epithelium

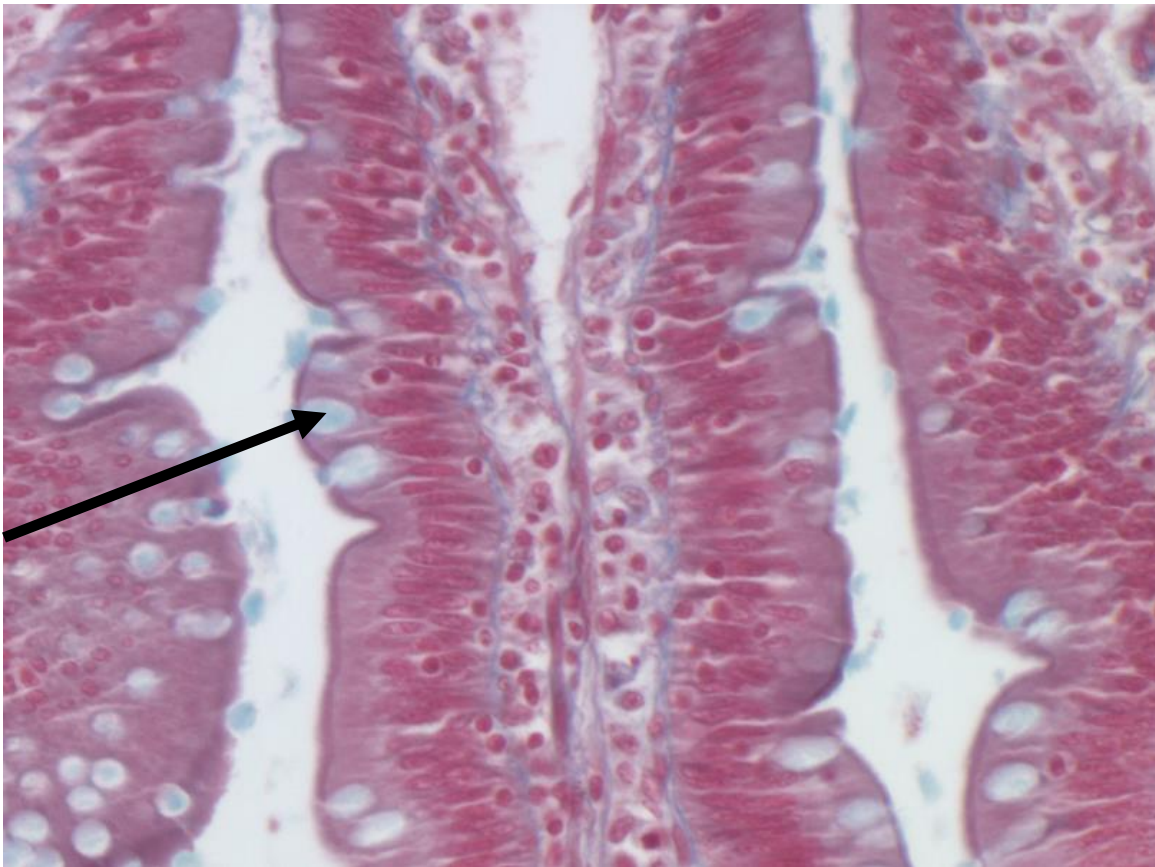


3. What type of cell is shown by the arrow?
- a. keratinocyte
 - b. endothelial cell
 - c. airway epithelial cell
 - d. enterocyte**
 - e. goblet cell



4. Name the protein found in the region indicated by the arrow.

keratin



5. Name the cell indicated by the arrow.

goblet cell

6. These structures separate the cell membranes of epithelial cells into apical and basolateral compartments.

a. microvilli

b. cilia

c. **tight junctions**

d. aquaporins

e. basement membranes

7. Transport via this protein does NOT depend upon a gradient.
This is true for which of the following proteins?

- a. glucose transporter
- b. aquaporin
- c. **Na⁺/K⁺-ATPase**
- d. CFTR
- e. Na⁺/glucose cotransporter

8. The rate-limiting and regulated step in fluid secretion by intestinal epithelial cells involves which of the following proteins?

- a. aquaporin (water channel)
- b. $\text{Na}^+/\text{K}^+/\text{2Cl}^-$ cotransporter
- c. Na^+/K^+ -ATPase
- d. Na^+ /glucose cotransporter
- e. **CFTR**

9. Which of the following best describes what occurs in cholera?
- a. CFTR is blocked by cholera toxin
 - b. Na⁺/glucose cotransporter is inhibited by cholera toxin
 - c. unregulated fluid secretion by intestinal epithelial cells**
 - d. cholera toxin inactivates Na⁺/K⁺-ATPase
 - e. intestinal fluid secretion is blocked

10. ALL of the following are TRUE about cystic fibrosis EXCEPT
- a. infants with cystic fibrosis may experience intestinal blockage
 - b. cystic fibrosis causes thick mucus in the airways of the lungs
 - c. disease results in excessive fluid secretion by epithelia
 - d. disease causes pancreatic insufficiency
 - e. patients with cystic fibrosis experience increased lung infections