Epithelia

Epithelial tissues can be described as sheet-like structures that line external and internal structures

Where are epithelia found?

- Line the outside of the human body (skin)
- Line internal cavities and lumen of bodies

85% of human cancers originate from cells of epithelial origin. Epithelial cells divide very frequently CF is a disease of epithelial tissue

Functions of epithelia

- Protection (covering and lining, protection from the external environment, prevents dessication)

Epithelial Cell Characteristics

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Epithelial cells contain specialized structure that link the cells to one another and the basal lamina:

- Tight junction
- Anchoring junction
- Channel forming functions

Tight junctions

• Tight junctions or occluding junctions are formed by membrane proteins that seal adjacent cells together ensuring molecules

cannot leak freely between cells

• Also prevent lateral migration of membrane proteins

• This creates distinct cell membrane domains generating cell polarity

• Tight junction prevents movement of substances between the cells

