Stratified Squamous Simple

- Multilayered flat cells
- Found in places that need protection from
 - \circ UV
 - Abrasion
 - Pathogens
 - o Environmental damage
- Multi layers of easily replaceable squamous epithelium acts as a good protective barrier

- · Single layer of flat cells
- Found in places that require membranes and exchange of substances
- Single layers offer a short diffusion distance making it good of exchange of molecules

Examples:

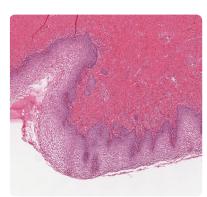


Examples:



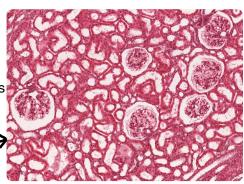
Oesophagus

Capilaries



Vagina

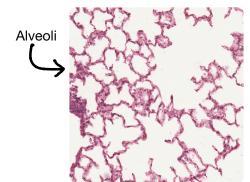
Glomerulus and Bowmans capsule (kidney)





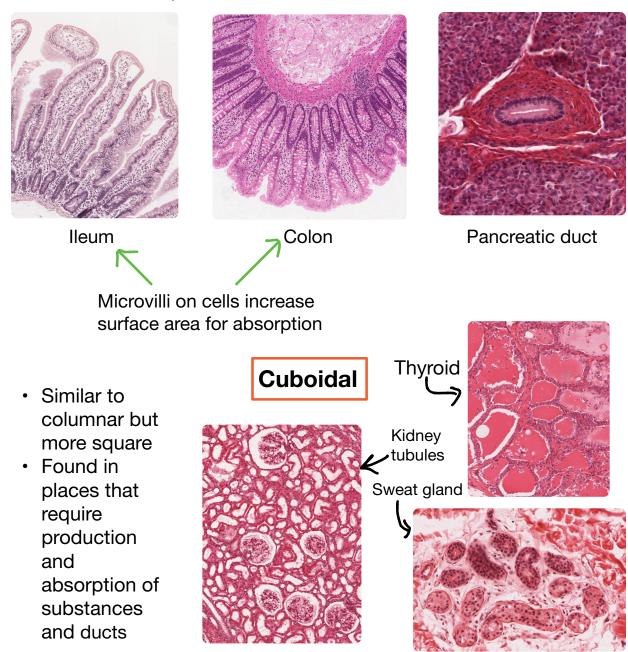
Skin

 Note the dark staining keratin for added protection from external environment



Columnar

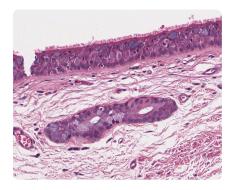
- Found in mucous membranes or epithelia that produce substances, line large ducts and places of absorption
- It's size/shape and cellular contents make it suitable to produce, release and absorb substances
- · Seen throughout the GI tract and in large ducts
 - o Goblet cells anywhere are columnar



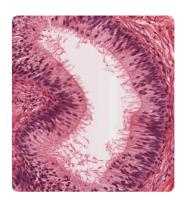
Pseudo-stratified columnar

- · Columnar epithelia that looks multi layered but is actually single layered
- Found in places that need non muscular movement to "waft" things around and make a current.

Examples:



Upper respiratory tractProduces the mucociliary escalator



Testis

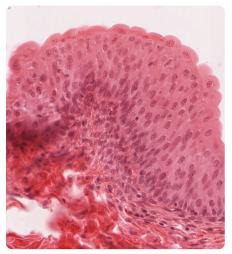
Note this is stereocillia and this doesn't move, it has an absorption function



Fallopian tubeWafts and transportsegg to uterus

Transitional

- Found in the urinary system only!
- · Helps distension for urine and protect surrounding tissue from toxins



Bladder

· Note the "umbrella cells"