## **Tissues Epithelial**

Simple (single layer) or Stratified (multiple layers) Squamous (flattened) or cuboidal or columnar

- Simple squamous epithelium (alveoli of lungs allows gas diffusion) (large nuclei)
- Simple cuboidal epithelium (kidney tubules urine formation)
- Simple columnar epithelium (inner lining of sml intestine nutrient absorption) (nuclei in basal region)
- Psudostratified columnar epithelium (respiratory ciliated) (rest on the basement membrane)
- Stratified squamous epithelium (specialized transitional)
  - Keratinised (hair, skin, nails)
  - o Non Keratinised (oesophagus, mouth & pharynx, vagina and anal canal)
- Stratified cuboidal epithelium
- Stratified columnar epithelium

Surface epithelia Glandular epithelia

Function = Secretion or excretion

Exocrine = passes secretion into a duct which carries to the bodies surface

Endocrine = no ducts and passes secretion directly into blood capillaries and/orlynthatic capillaries

General: (nebb) connective til sue loose)

Adipose connective tiss w (loose)

Reticular convertive tissue (loose) Dense regular come arve issue (tendons and aponeuroses)

Collagenous fibres: densely packed parallel bundles

Fibroblasts: elongated flattened nuclei of inactive fibroblasts wedged between bundles of collagenous fibres

Dense irregular connective tissue (dermis of skin, fibrous capsules of organs, periosteum, endosteum, perichondrium and deep fascia)

- Elastic fibres: stain black; thinner near the epithelium
- Collagenous fibres: pink stained fibres; densely packed bundles oriented in all directions

**Specialised:** Bone tissue Cartilaginous tissue Blood and haemopoietic tissue Lymphatic tissue

## Intercellular substances

Collagenous fibres:

White appearance

Occur in bundles

Strong, flexible and resistant to stretching

Do not branch

**Reticular Fibres:** 

Thin and branched (net-like supporting framework of organs)

Around sml blood vessels, muscle fibres, nerve fibres and adipocytes

Elastic fibres: