# **Endocrine Histology**

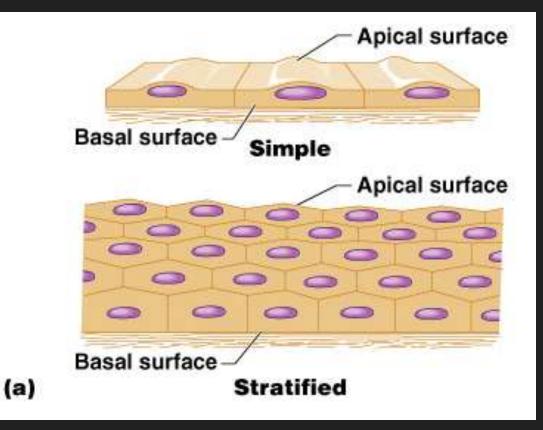
EQ: Compare and contrast the different types of tissues found in the endocrine system.

#### **Epithelial Tissues**

OFound in different areas • Body coverings • Body linings O Glandular tissue: Glands in the body **O**Functions O Protection O Absorption O Filtration **O**Secretion

### **Classification of Epithelium**

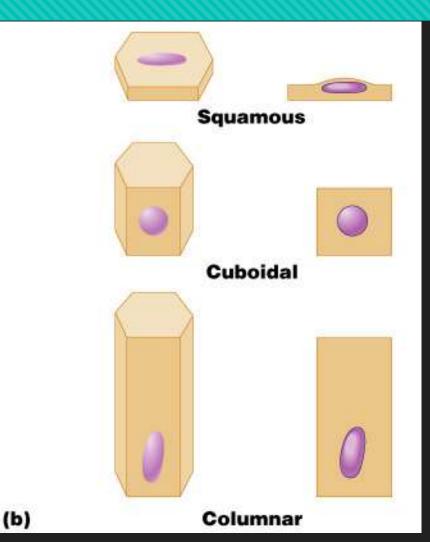
 Number of cell layers
 Simple – one layer
 Stratified – more than one layer



#### **Classification of Epithelium**

#### OShape of cells

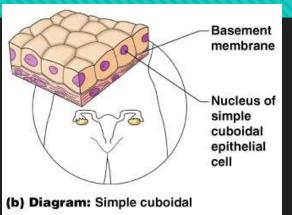
Squamous – flattened
Cuboidal – cube-shaped
Columnar – column-like

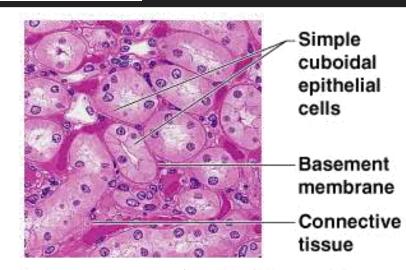


## **Simple Epithelium**

#### OSimple cuboidal

- OSingle layer of cube-like cells
- Common in glands and their ducts
- OForms walls of kidney tubules





Photomicrograph: Simple cuboidal epithelium in kidney tubules (400x).

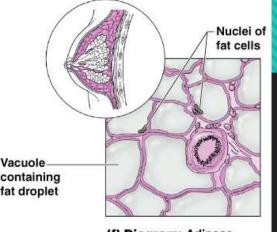
#### **Connective Tissue**

• Found everywhere in the body Old Includes the most abundant and widely distributed tissues **O**Functions OBinds body tissues together OSupports the body OProvides protection

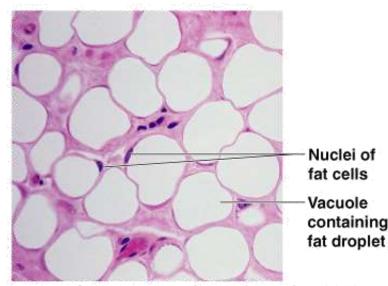
## **Connective Tissue Types**

#### OAdipose tissue

- OMatrix is an areolar tissue in which fat globules predominate
- OMany cells contain large lipid deposits
- **O**Functions
  - O Insulates the body
  - Protects some organs
  - Serves as a site of fuel storage



(f) Diagram: Adipose



Photomicrograph: Adipose tissue from the subcutaneous layer beneath the skin (600x).