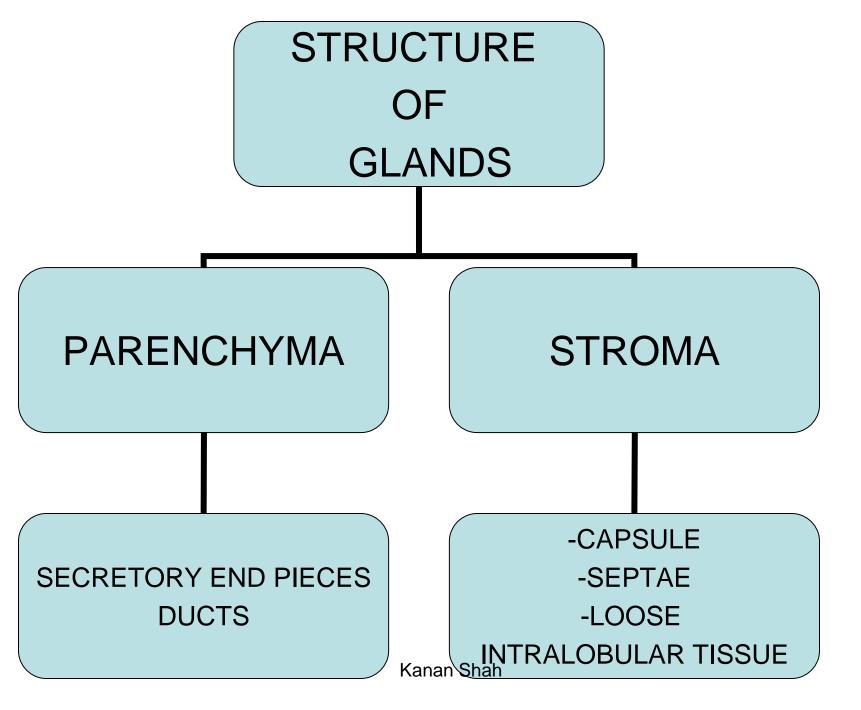
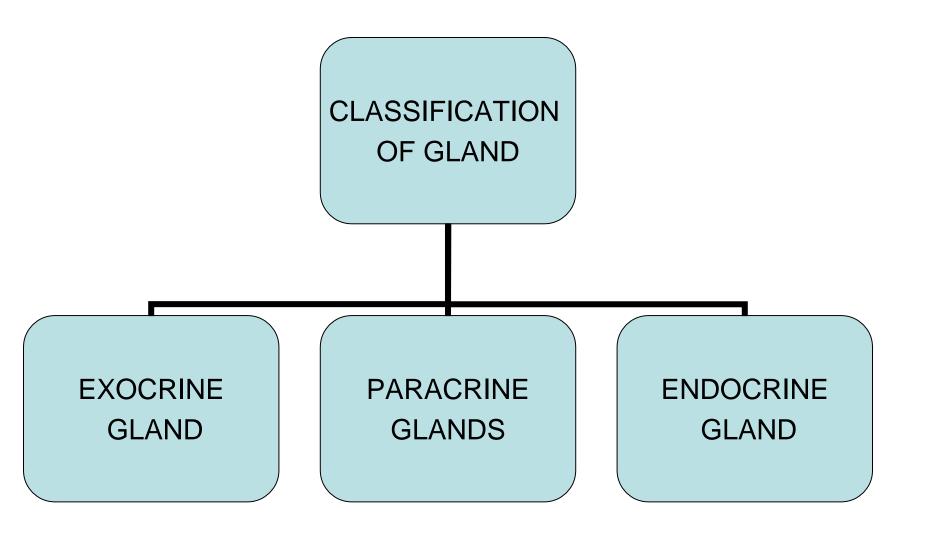
#### GLANULAR EPITHELIUM

Derived from the epithelial tissue and elaborate secretion.

 Glands are develop as cords of epithelial cell from the surface membrane and invade the adjoining connective tissue.





EXOCRINE GLANDS

**UNICELLULAR** 

**MLTICELLULAR** 

MULTICELLU LAR EXOCRINE GLAND

ACCO. TO SHAPE OF SECRE. END PIECE

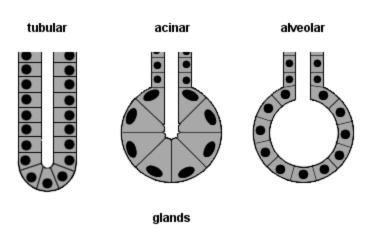
ACCO. TO
DUCTS
Branched
or
Unbranched

ACCO. TO MANNER OF SECRETIO N

ACCO.TO THE DEVELOP MENT ACCO. TO TYPE OF SECRETIO N

ACCO.
TYPE
OF
CELLS
PRES
ENT
IN
GLAND

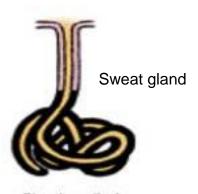
5





Intestine

Simple



Simple coiled tubular



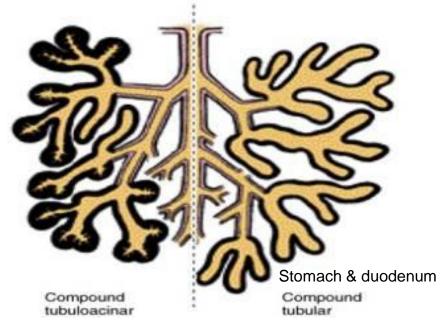
Uterine glands

Simple branched tubular

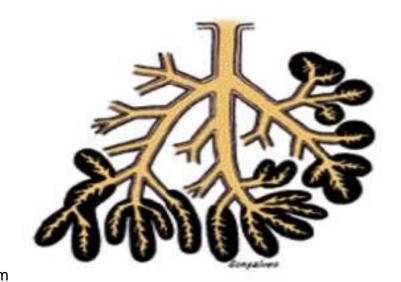


Sebaceous and tarsal glands

Simple branched acinar



Kanan Shah



Compound acinar

### According to manner of secretion

#### Cytocrine gland

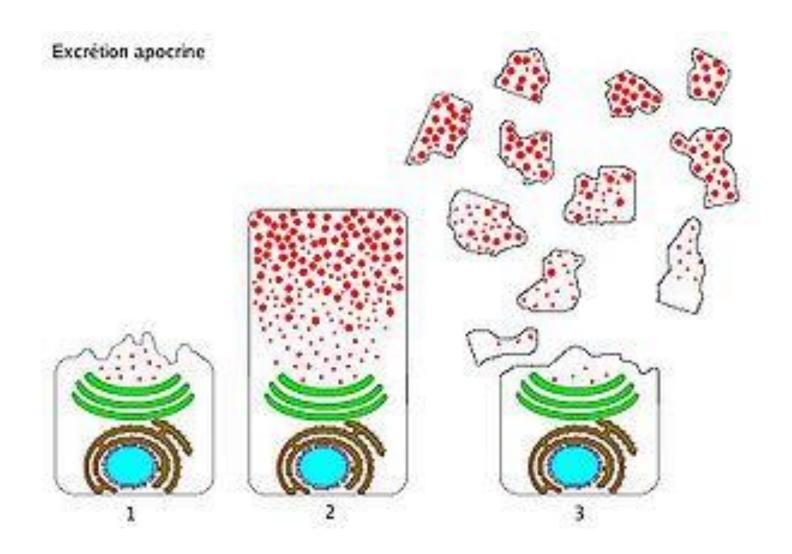
- Merocrine glands(Ecrine)
  - corresponds to the process of exocytosis. Vesicles open onto the surface of the cell, and the secretory product is discharged from the cell without any further loss of cell substance.

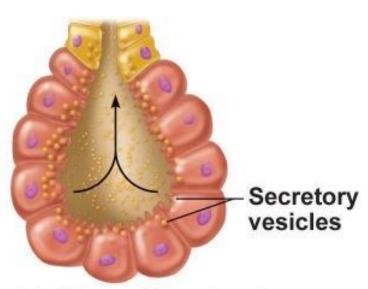
#### Apocrine glands

 designates a mechanism in which part of the apical cytoplasm of the cells is lost together with the secretory product. The continuity of the plasma membrane is restored by the fusion of the broken edges of the membrane, and the cell is able to accumulate the secretory product anew. This mechanism is used by apocrine sweat glands, the mammary glands and the prostate.

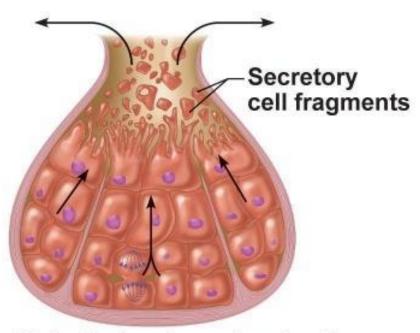
#### Holocrine glands

 secretion designates the breakdown and discharge of the entire secretory cell. It is only seen in the sebaceous glands of the skin.





(a) Merocrine glands secrete their products by exocytosis.



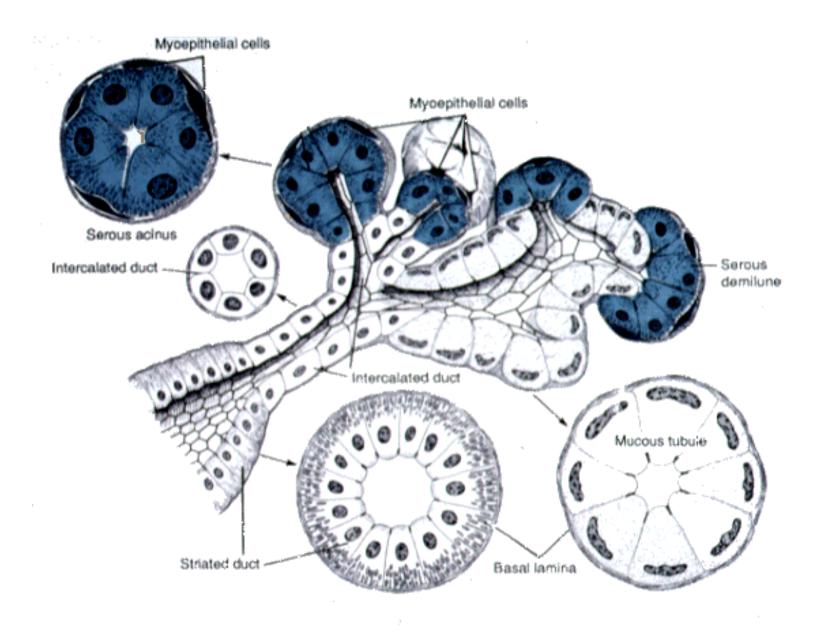
(b) In holocrine glands, the entire secretory cell ruptures, releasing secretions and dead cell fragments.

Copyright © 2010 Pearson Education, Inc.

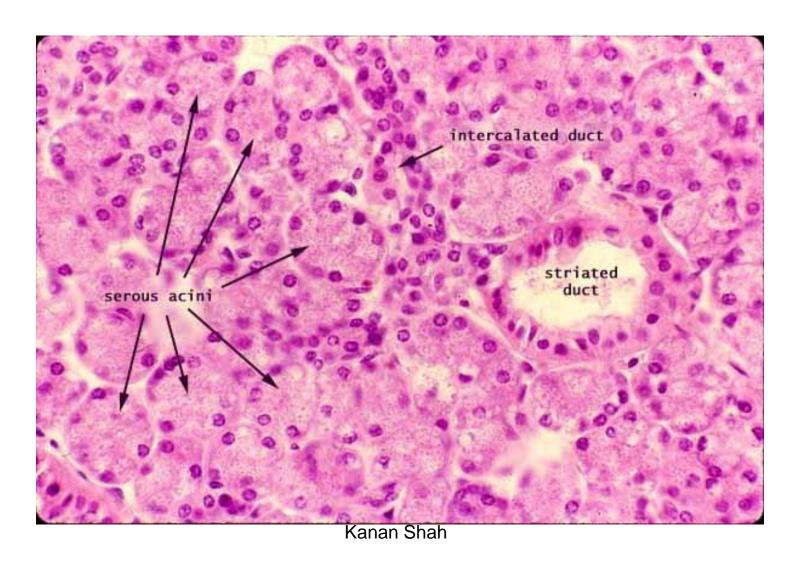
ENDOCRINE GLANDS

CORD AND CLUMP
TYPE

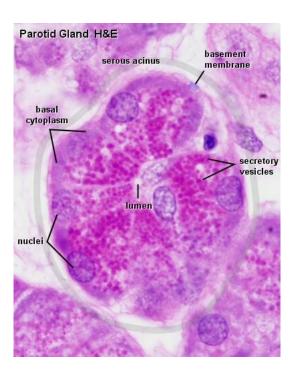
FOLLICULAR TYPE



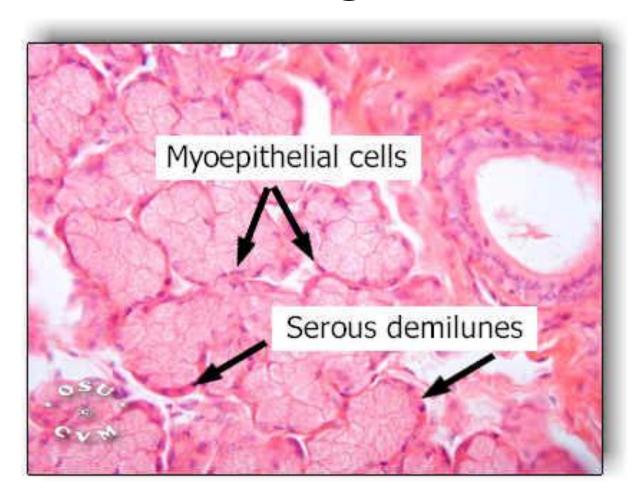
## SEROUS GLAND

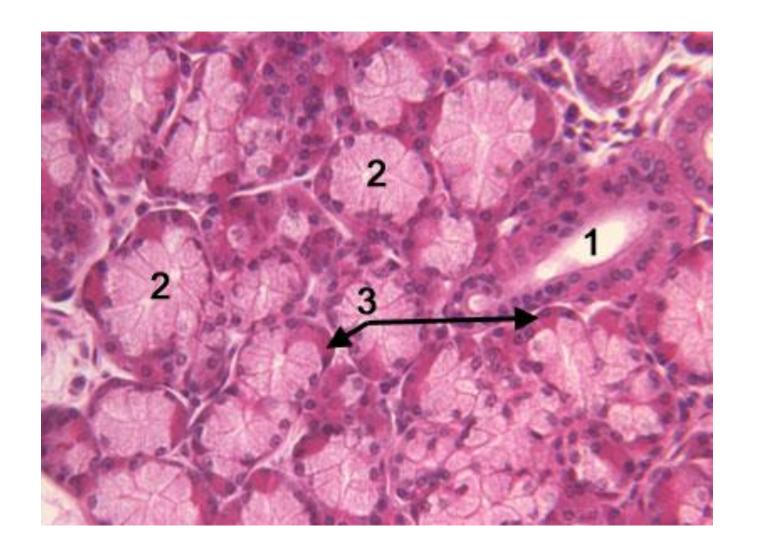


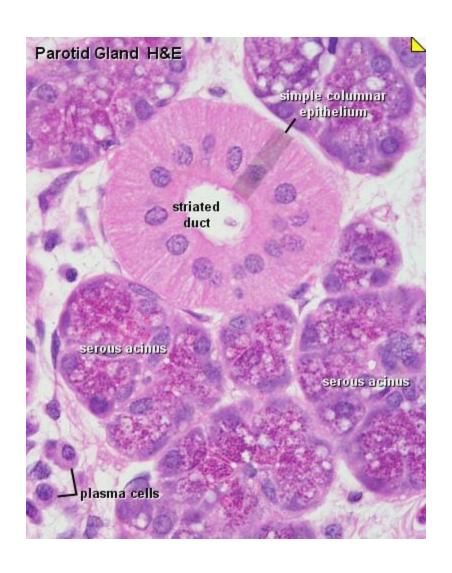
## SEROUS GLAND



### MIXED GLAND



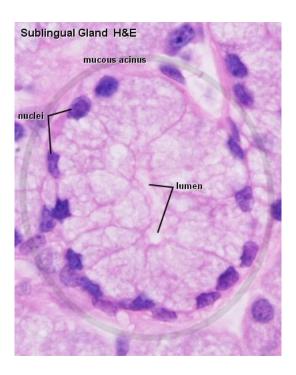




# MUCOUS GLAND (SUBLINGUAL GLAND)



### **MUCOUS GLAND**



## Aknowledgement

- Inderbir Singh's Textbook of Human Histology
- Textbook of Histology- Atlas and Practical Guide by JP Gunasegaran
- Difiore's Atlas of Histology
- Images from Google
- Histology Text & Atlas -Brijeshkumar

