

# Endocrine pancreas Histology

## Islets of Langerhans

- Secrete hormones that regulate blood glucose levels.
- Pancreas contains about one million islets mainly at its tail.

### LM:

- Pale-staining clusters of cells
- Fenestrated blood capillaries with diaphragm.
- Supported by reticular fibers



### Cells in the islets of Langerhan's are:

- |  |                                |
|--|--------------------------------|
| <ul style="list-style-type: none"> <li>- A cells (alpha cells)</li> <li>- B cells(beta cells)</li> <li>- D cells(delta cells)</li> </ul> | } <b>Main cell types (95%)</b> |
| <ul style="list-style-type: none"> <li>- PP (F cells)</li> <li>- D-1 cells</li> <li>- EC cells</li> </ul>                                |                                |
| } <b>Minor cell types (5%)</b>   |                                |

<u>1) Major cells</u>	B (BETA) CELLS	A (ALPHA) CELLS	D (DELTA CELLS)
<b>NO.</b>	60-70%	15-20%	5-10%
<b>Site</b>	Central part	Peripherally	peripherally.
<b>EM</b>	Numerous secretory granules, pale matrix and a dense <u>polyhedral crystalline core</u> (crystallized insulin).	<u>Densely packed, uniform secretory granules, having dense core surrounded by clear area.</u>	<b>Large</b> secretory granules, <u>homogenous</u> matrix of medium electron density
<b>Function</b>	Secrete <b>insulin</b> which lowers blood glucose level	Secrete <b>glucagon</b> which elevates blood glucose level.	Secrete <b>somatostatin</b> which inhibits insulin, glucagon and growth hormones.

# Endocrine Pathology Of The Gut And Pancreas

**Mike Jess**



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