

CONCEPT: BLOOD SUGAR HOMEOSTASIS

- **Diabetes mellitus** – disease that disrupts blood sugar homeostasis due to problems surround the hormone insulin
 - **Type 1** – pancreas cannot produce insulin sufficiently
 - **Type 2** – cells fail to respond to insulin properly
- **Insulin** – pancreas hormone that stimulates muscle and liver cells to take in glucose and form glycogen
- **Glucagon** – pancreas hormone that stimulates liver to breakdown glycogen to glucose, and perform gluconeogenesis
 - **Gluconeogenesis** – synthesis of glucose from non-carbohydrate carbon sources

EXAMPLE:

