

Ch. 16 - The Endocrine System

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- The purpose of the endocrine system is to secrete hormones that regulate the body and maintain homeostasis.
- Examples: metabolism, heart rate, circulation, growth, reproduction, etc.

Glands

- Glands are organs that secrete or send out certain hormones, or chemical messengers, to the rest of the body.
- How do cells do this? ... Remember your Cell Biology!
- In specific cells in each gland the endoplasmic reticulum makes lipids and proteins
 - o Smooth ER makes lipids (steroids)
 - o Rough ER makes proteins
- The Golgi Apparatus then sorts, packages (into vesicles) and releases them from the cell.

Types of Glands:

- Exocrine glands secrete substances onto body surface and into body cavities.
- Examples: glands found in the integumentary system, sweat gland, oil gland, salivary
- Endocrine glands secrete substances into the blood.
- Example: the endocrine glands
- The endocrine system consists of many glands but we are going to focus on 4 major ones.
- List of glands: pituitary, thyroid, parathyroid, thymus, adrenal, pancreas, gonads (testes & ovaries)

"exo" - out of
"endo" - into
"gland" - secretion
"gland" - secretion
"gland" - secretion
"gland" - secretion

Hormones

- Hormones are chemicals secreted, or released, by one cell to affect the function of another cell or organ.
- Hormones affect only their target cells
- Target cells have specific hormone receptors on their surface.
- If no receptor, cell is not affected by the hormone.
- Feedback loops are commonly used in the endocrine system.
- Feedback is a mechanism in which the secreting cell's hormones stimulate an increase or decrease in production of hormones at the target cells.
- Hormones are used to turn off or on other cell's or gland hormones.
- Negative feedback, most common in humans, causes target cells to decrease chemical secretion.
- Positive feedback causes target cells to increase chemical secretion.
- Hormones produce one of the following changes at the target cell:
 1. Open or close ion channels in plasma membrane
 2. Stimulate protein synthesis
 3. Activate or deactivate enzymes
 4. Cause hormone secretion from other gland
 5. Increase cytotoxic for growth or repair

What loop
is commonly
used in the
endocrine
system?

enzymes are what
are certain proteins
is going to the body

Secrete = to discharge,
emit, or release a
product

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