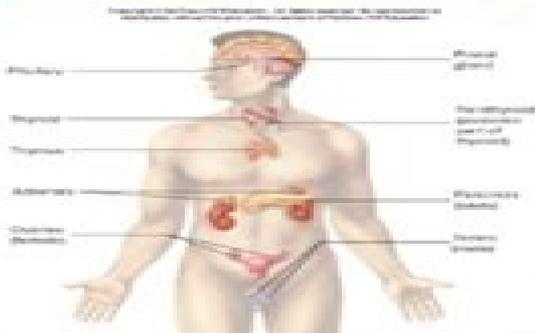


Chapter 10: Endocrine System Anatomy and Physiology

Endocrine System Glands



Cell Secretion Types

Autocrine

- released by cells and have local effect on same cell type
- Example - eicosanoids

Paracrine

- released by cells that affect other cell types in close proximity
- Example - somatostatin

Neurotransmitter and Neuromodulators

- secreted by nerve cells
- Example - nervous system function

Hormones and Neurohormones

- secreted into blood and bind to receptor sites
- Example - epinephrine and insulin

Endocrine System Functions

- Metabolism
- Control of Food Intake and Digestion
- Tissue Development
- Ion Regulation
- Water Balance
- Heart rate and Blood pressure regulation
- Control of Blood Glucose and other nutrients

- Control of Reproductive Functions
- Uterine Contraction and Milk Release
- Immune System Regulation

- The target tissues have receptors for a specific hormone.
- Hormones produce a particular response in the target tissue.

Characteristics

Water-soluble hormones:

- includes proteins, peptides, amino acids
- most common
- Examples - growth hormone, antidiuretic, prolactin

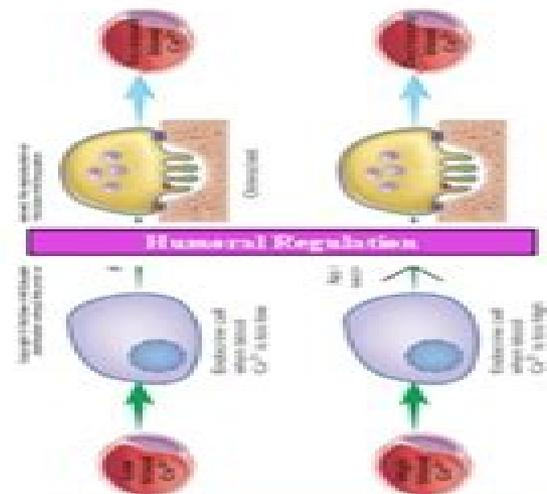
Types of Hormones

- soluble in water
- eicosanoids
- Examples - LH, FSH, androgens

- Blood-borne chemicals can directly stimulate the release of some hormones.
- These chemicals are referred to as **humoral stimuli** because they circulate in the blood.

Control of Hormone Release

- Hormone release can also be under **neural control**.
- Following action potentials, neurons release a neurotransmitter into the synapse with the cells that produce the hormone.
- Hormone release can also be controlled by other hormones.
- It occurs when a hormone is secreted that, in turn, stimulates the secretion of other hormones.
- The same three types of stimuli (humoral, neural, and hormonal) can stimulate or inhibit hormone release.



Neural Regulation



Inhibitors of Hormone Release

- Humoral inhibition** of hormone release generally involves the actions of companion hormones.
- Usually each of the companion hormones performs an opposite function.
 - For example, to raise blood pressure, the adrenal cortex secretes the hormone aldosterone in response to low blood pressure, but to lower it the heart atria secrete atrial natriuretic peptide.
 - They work together to maintain homeostasis of blood pressure.
 - Neurons inhibit targets just as often as they stimulate targets.

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