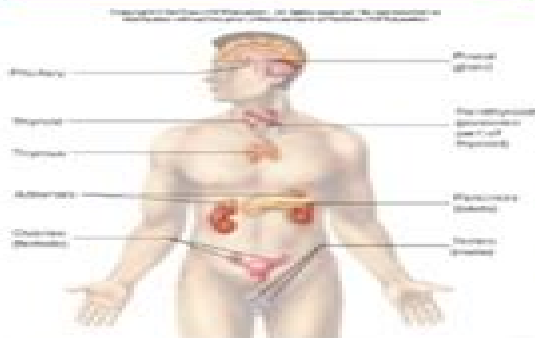


Chapter 10: Endocrine System Anatomy and Physiology

Endocrine System Glands



Cell Secretion Types

- **Autocrine**
 - released by cells and have a 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 Function

- (1) Metabolism
- (2) Control of Food Intake and Digestion
- (3) Tissue Development
- (4) Ion Regulation
- (5) Water Balance
- (6) Heart rate and Blood pressure regulation
- (7) Control of Blood Glucose and other nutrients

- (8) Control of Reproductive Functions
- (9) Uterine Contraction and Milk Release
- (10) Immune System Regulation

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

Characteristics

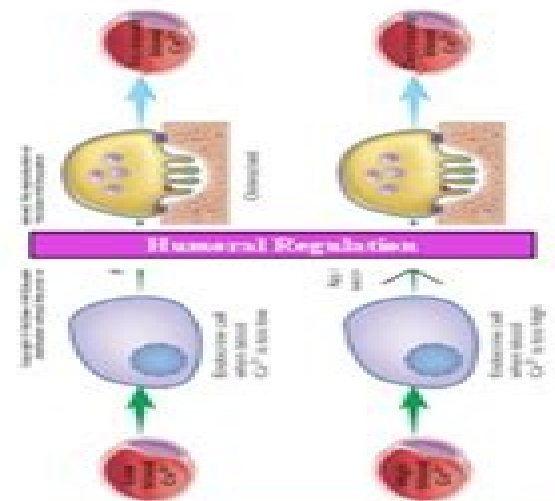
- **Water-soluble hormones:**
 - includes proteins, peptides, amino acids
 - most common
 - Examples - growth hormone, antidiuretic, prolactin

Types of Hormones

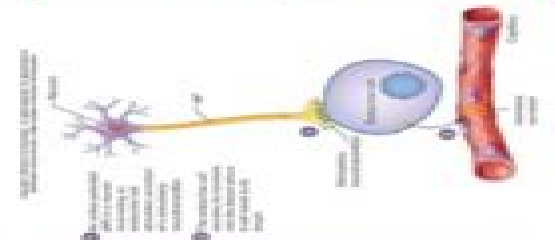
- **soluble hormones** bind to intracellular receptors
 - eicosanoids
 - Examples - LH, FSH, androgens
- Blood-borne chemicals can directly stimulate the release of some hormones.
- These chemicals are referred to as **humoral stimuli** because they circulate in the blood.

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



Inhibition 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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