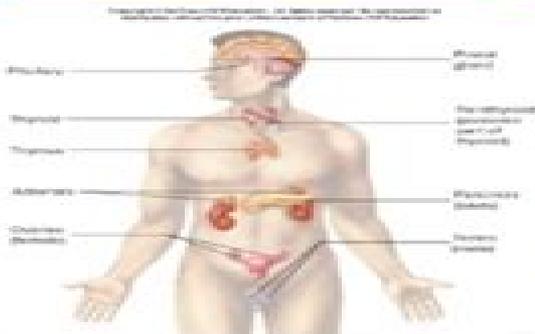


**Chapter 10: Endocrine System
Anatomy and Physiology**

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

- (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

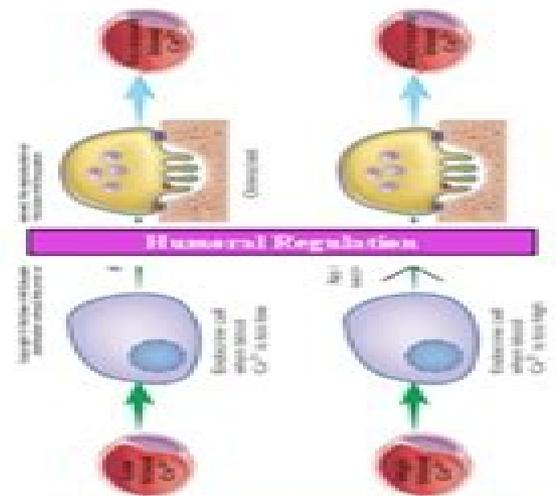
Types of Hormones

- **soluble** - proteins, peptides, eicosanoids
- **Examples** - LH, FSH, androgens

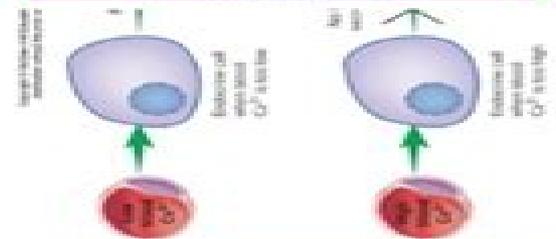
- ✓ Blood-borne chemicals can directly stimulate the release of some hormones.
- ✓ These chemicals are referred to as **humoral stimuli** because they circulate in the blood.

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.



Humoral Regulation



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.

Chapter 10 Endocrine System Test

Hussin A.Rothana



Chapter 10 Endocrine System Test:

Chapter 10 Endocrine System Test Book Review: Unveiling the Power of Words

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