

ENDOCRINE SYSTEM

• Second controlling system of the body

Hormones control several major processes

- Reproduction
- Growth and development
- Mobilization of body defenses
- Maintenance of much of homeostasis
- Regulation of metabolism

Endocrinology is the scientific study of hormones and endocrine organs.

Hormones are classified chemically as:

- **Amino acid**—based, which includes:
 - Proteins
 - Peptides
 - Amines
- **Steroids**—made from cholesterol
- **Prostaglandins**—made from highly active lipids that act as local hormones

Hormones act by two mechanisms

1. **Direct gene activation**
 - Used by steroid hormones and thyroid hormone
2. **Second-messenger system**
 - Used by protein and peptide hormones

• The stimuli that activate endocrine glands fall into three major categories

1. Hormonal
2. Humoral
3. Neural

1. Hormonal stimuli

- Most common category of stimulus
- Endocrine organs are activated by other hormones

2. Humoral stimuli

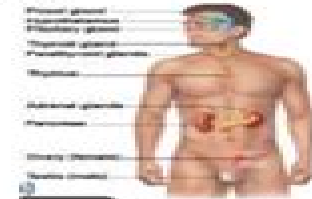
- Changing blood levels of certain ions and nutrients stimulate hormone release
- Humoral indicates various body fluids, such as blood and bile

3. Neural stimuli

- Nerve fibers stimulate hormone release
- Most are under the control of the sympathetic nervous system

The Major Endocrine Organs

- Pineal gland
- Hypothalamus
- Pituitary gland
- Thyroid gland
- Parathyroid glands
- Thymus
- Adrenal glands
- Pancreas
- Gonads (testes and ovaries)



1. Pituitary gland

- Pea-sized gland
- Protected by the sella turcica of the sphenoid bone

Has two functional lobes

- **Anterior pituitary**—glandular tissue
- **Posterior pituitary**—nervous tissue

Often called the **“master endocrine gland”**

Hypothalamus produces releasing hormones and inhibiting hormones.

Hypothalamus also makes two hormones: **oxytocin** and **antidiuretic hormone**

Hypothalamus also secretes **somatostatin** – pituitary gland to stop the release of growth hormone

Six anterior pituitary hormones

Two hormones affect nonendocrine targets

1. Growth hormone
2. Prolactin

Four are tropic hormones

1. Follicle-stimulating hormone
2. Luteinizing hormone
3. Thyrotropic hormone
4. Adrenocorticotrophic hormone

Anterior Pituitary

Hormone	Function
Growth Hormone	• Stimulates bone growth and tissue • Causes amino acids to be built into proteins • Causes fats to be broken down for a source of energy
Prolactin	Stimulates milk production in females
Gonadotropic Hormones	Control sexual function and production of sex steroids, estrogen and progesterone
(1) Luteinizing hormone (LH) (2) Follicle-stimulating hormone	
Thyroid-stimulating hormone (thyrotropic hormone)	Influences growth and activity of the thyroid gland
Adrenocorticotrophic hormone	Regulates endocrine activity of the adrenal cortex

Endocrine System Marieb Manual Exercises

Yi-Tong Ma



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