

CHAPTER SUMMARY

28.1 The Endocrine System Uses Hormones to Communicate

- The nervous system and endocrine system specialize in the intercellular communication needed to maintain homeostasis in an animal body.
- A. Endocrine Glands Secrete Hormones That Interact with Target Cells**
 - The endocrine system includes several endocrine glands and scattered cells, plus the hormones they secrete into the bloodstream. Hormones interact with target cells to exert their effects (Figure 28.13).
 - Negative feedback loops ensure that the levels of a hormone in the bloodstream are not too high or too low.
- B. The Nervous and Endocrine Systems Work Together**
 - The nervous system acts faster and more locally than the endocrine system.
 - The hypothalamus physically connects the nervous and endocrine systems. In addition, the two communication systems share many messenger molecules and target cells.

28.2 Hormones Stimulate Responses in Target Cells

- A. Water-Soluble Hormones Trigger Second Messenger Systems**
 - Peptide hormones are water-soluble and bind to the surface receptors of target cells. A second messenger triggers the hormone's effect inside the cell.
- B. Lipid-Soluble Hormones Directly Alter Gene Expression**
 - Most lipid-soluble steroid hormones cross cell membranes and bind to receptors in the cytoplasm or nucleus. The receptors activate genes, which direct the synthesis of proteins that provide the cell's response.

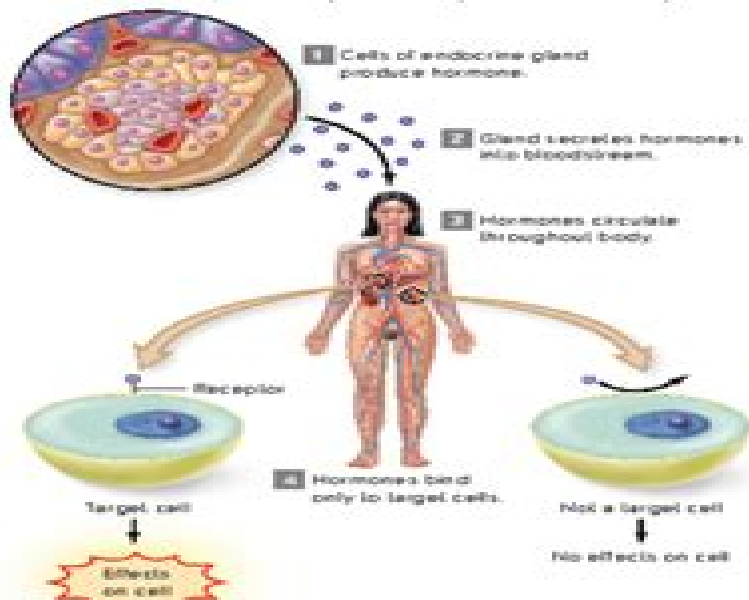


Figure 28.15 Hormones and Target Cells: A Summary.

28.3 The Hypothalamus and Pituitary Gland Oversee Endocrine Control

- Neurons from the hypothalamus influence the release of hormones from the posterior pituitary and anterior pituitary glands.
- A. The Posterior Pituitary Stores and Releases Two Hormones**
 - Two hormones produced by the hypothalamus are released by the posterior pituitary. Antidiuretic hormone (ADH) regulates body fluid composition; oxytocin stimulates muscle contractions in the uterus and milk ducts.
- B. The Anterior Pituitary Produces and Secretes Six Hormones**
 - Growth hormone (GH) stimulates cell division, protein synthesis, and growth throughout the body.
 - Prolactin stimulates milk production.
 - Thyroid-stimulating hormone (TSH) prompts the thyroid gland to release hormones.
 - Adrenocorticotropic hormone (ACTH) stimulates the adrenal cortex to release hormones.
 - Follicle-stimulating hormone (FSH) and luteinizing hormone (LH) stimulate hormone release from the ovaries and testes.
 - Endorphins are natural painkillers with target cells in the brain.

28.4 Hormones from Many Glands Regulate Metabolism

- A. The Thyroid Gland Sets the Metabolic Pace**
 - Thyroxine and triiodothyronine from the thyroid gland speed metabolism. Calcitonin lowers the level of calcium in the blood.
- B. The Parathyroid Glands Control Calcium Level**
 - The parathyroid glands secrete parathyroid hormone (PTH), which increases the blood calcium concentration.
- C. The Adrenal Glands Coordinate the Body's Stress Responses**
 - The adrenal gland has an inner portion, the adrenal medulla, which secretes epinephrine and norepinephrine. These hormones ready the body to cope with a short-term emergency. The adrenal cortex secretes mineralocorticoids and glucocorticoids, which mobilize energy reserves during stress and maintain blood volume and blood composition.
- D. The Pancreas Regulates Blood Glucose**
 - The pancreatic islets of the pancreas secrete insulin and glucagon, two hormones that regulate blood glucose levels.
 - In diabetes mellitus, blood sugar concentrations rise to dangerous levels. Type 1 diabetes occurs when the pancreas fails to produce insulin; in type 2 diabetes, the body's cells do not respond to insulin.
 - Hypoglycemia is low blood sugar, which is caused by excess insulin or insufficient carbohydrate intake.
- E. The Pineal Gland Secretes Melatonin**
 - The pineal gland secretes a hormone, melatonin, that may regulate how other glands respond to light-dark cycles.

28.5 Hormones from the Ovaries and Testes Control Reproduction

- In females, FSH and LH stimulate the ovaries to secrete estrogen and progesterone, hormones that stimulate the development of secondary sex characteristics and control the menstrual cycle.
- In males, FSH and LH stimulate the testes to secrete testosterone, which stimulates sperm cell production and the development of secondary sex characteristics.

28.6 Investigating Life: Addicted to Affection

- Researchers have traced pain-bonding behavior to a receptor that binds ADH in the pleasure-seeking area of the prairie vole's brain.

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TD Snyder



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