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 hormoness they secrete into the bloodstream. Hormones interact with larget cells to exert their effects (figure 28.15).
- 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 hypothalannos physically connects the nervous and endocrine systems. In addition, the two commonication systems share many measurager medecalism 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 sarface 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-soloble steroid hormouses cross cell membranes and bind to enceptons in the cytopliasm or nucleus. The enceptons activate genes, which direct the synthesis of proteins that provide the cell's response.

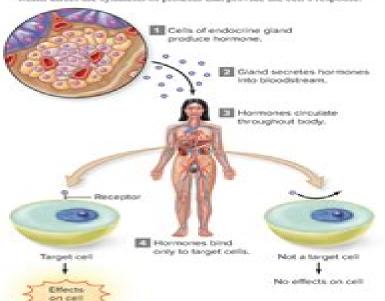


Figure 28.15 Hormones and Target Cells: A Summary.

28.3 The Hypothalamus and Pituitary Gland Oversee Endocrine Control

- Neurons from the hypothalassus influence the release of hormones from the posterior pibultary and anterior pibultary glands.
- A. The Posterior Pituitary Stores and Releases Two Hormones
- Two hormones produced by the hypothalamus are released by the posterior piraltary. Anticlaretic hormone (ADH) regulates body fluid composition, exylecte stimulates muscle contractions in the merus and milk dues.
- 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.
- Adrenocorticstropic bormone (ACTH) stimulates the adrenal cortex to release hormones.
- Follicle-stimulating hormone (FSH) and lateinizing hormone (LH) utimulate hormone release from the overless and testers.
- Endorphias are named 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 advenal gland has an inner portion, the advenal medulla, which secretes epinephrine and noreginephrine. These hormones ready the body to cope with a short-term emergency. The advenal cortex secretes mineralocorticolds and glucocorticolds, which mobilize energy neutrons during stress and maintain blood volume and bised composition.
- D. The Pancreas Regulates Blood Glucose
- The pastereatic idets of the pasteress secrete insulin and glucages, two hormones that regulate blood glucose levels.
- In diabetes mellitas, blood sugar concentrations rise to dangerous levels.
 Type I diabetes occurs when the pancreas fails to produce insating 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 Melatonia
- 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 exarise to secrete estrogen and progesterose, hormones that stimulate the development of secondary sex characteristics and control the menstrual cycle.
- In males, FSH and LH stimulate the testes to secrete testesterone, which stimulates sporm cell production and the development of secondary sex characteristics.

28.6 Investigating Life: Addicted to Affection

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

Chapter Twenty Eight Biology Study Guide Answers

Joen lannucci, Laura Jansen Howerton

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Table of Contents Chapter Twenty Eight Biology Study Guide Answers

- 1. Understanding the eBook Chapter Twenty Eight Biology Study Guide Answers
 - The Rise of Digital Reading Chapter Twenty Eight Biology Study Guide Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Chapter Twenty Eight Biology Study Guide Answers
 - Exploring Different Genres
 - $\circ\,$ Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter Twenty Eight Biology Study Guide Answers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Chapter Twenty Eight Biology Study Guide Answers
 - Personalized Recommendations
 - Chapter Twenty Eight Biology Study Guide Answers User Reviews and Ratings

- Chapter Twenty Eight Biology Study Guide Answers and Bestseller Lists
- 5. Accessing Chapter Twenty Eight Biology Study Guide Answers Free and Paid eBooks
 - Chapter Twenty Eight Biology Study Guide Answers Public Domain eBooks
 - Chapter Twenty Eight Biology Study Guide Answers eBook Subscription Services
 - Chapter Twenty Eight Biology Study Guide Answers Budget-Friendly Options
- 6. Navigating Chapter Twenty Eight Biology Study Guide Answers eBook Formats
 - o ePub, PDF, MOBI, and More
 - Chapter Twenty Eight Biology Study Guide Answers Compatibility with Devices
 - Chapter Twenty Eight Biology Study Guide Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter Twenty Eight Biology Study Guide Answers
 - Highlighting and Note-Taking Chapter Twenty Eight Biology Study Guide Answers
 - Interactive Elements Chapter Twenty Eight Biology Study Guide Answers
- 8. Staying Engaged with Chapter Twenty Eight Biology Study Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter Twenty Eight Biology Study Guide Answers
- 9. Balancing eBooks and Physical Books Chapter Twenty Eight Biology Study Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter Twenty Eight Biology Study Guide Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter Twenty Eight Biology Study Guide Answers
 - Setting Reading Goals Chapter Twenty Eight Biology Study Guide Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter Twenty Eight Biology Study Guide Answers
 - Fact-Checking eBook Content of Chapter Twenty Eight Biology Study Guide Answers
 - Distinguishing Credible Sources

- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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