



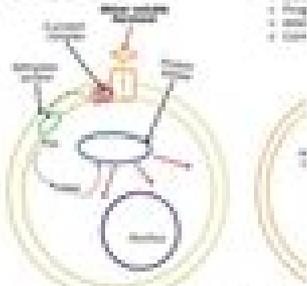
Characteristics: Control of substances that are all hormones and control molecules

- They are 7.1 the size of other hormones
- All classified as lipids or lipid soluble hormones
- Diffusion through plasma membrane

Water vs. Lipid Soluble

Water soluble hormones bind to a receptor on the plasma membrane. Intracellular functions. It controls an intracellular pathway that appears to control and act in a way to control cellular response.

- Protein
- Amino
- Peptide
- Steroid



ENDOCRINE SYSTEM

Endocrinology: the scientific study of hormones and the endocrine glands.

- 1. Growth and development
- 2. Metabolic fuel, structure and reproduction
- 3. Regulation of the immune system and energy balance
- 4. Homeostasis

How it works:

- The endocrine system works with the nervous system to control and regulate cellular activities in tissues and hormones.
- Hormones travel through the bloodstream and the circulatory system to reach target organs.
- Each hormone has a specific function in the body and has its own specific receptors for each hormone in the target organs.
- Each hormone specifically binds to a target cell.
- A target cell has receptors on their cell membrane designed to respond to that specific hormone.
- When the hormone binds to a receptor with the right site structure, the receptor acts as a "lock and key" mechanism.
- After the hormone binds to the cell receptor, a chemical chain of events starts leading to a hormone response.



Effect: to make cells or part that respond to hormones producing a response

ENDOCRINE VS. EXOCRINE GLANDS

Endocrine glands: These glands secrete hormones directly into the bloodstream. Examples include the hypothalamus, pituitary, thyroid, parathyroid, adrenal, pineal, and gonads.

Exocrine glands: These glands secrete their products through ducts. Examples include the salivary glands, sweat glands, and the pancreas (which has both endocrine and exocrine functions).

REPRODUCTIVE SYSTEM

Reproductive system: a series of organs that work together to allow the development and growth of offspring in response to hormonal cues in the body.

REPRODUCTIVE SYSTEM

The ovaries secrete four essential sex hormones:

1. Estrogen
2. Progesterone
3. Androgens
4. Inhibin



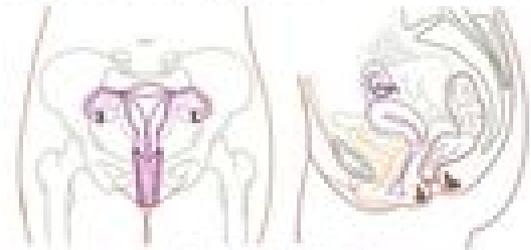
Essential genitalia for reproduction:

1. Vagina
2. Cervix
3. Uterus
4. Fallopian
5. Ovaries
6. Testes

REPRODUCTIVE SYSTEM

The reproductive system functions to produce offspring. Primary sex organs called **gonads** (ovary in women; testis in men) and accessory sex organs. Accessory organs include ducts, glands, and external genitalia.

Two categories include the male reproductive system which produces sperm, and the female reproductive system produces egg cells.



Male: Male produces sperm. Sperm travels up through the fallopian tube to reach the egg. Sperm is released from the testes through the penis.

Female: Female produces egg cells. Egg travels up through the fallopian tube to reach the sperm. Egg is released from the ovaries through the vagina.

ENDOCRINE AND REPRODUCTIVE BUNDLE
PRINTABLE COLORING STUDY GUIDE
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Endocrine And Reproductive System Study Guide

Michael Seilmaier



Endocrine And Reproductive System Study Guide:

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Table of Contents Endocrine And Reproductive System Study Guide

1. Understanding the eBook Endocrine And Reproductive System Study Guide
 - The Rise of Digital Reading Endocrine And Reproductive System Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Endocrine And Reproductive System Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Endocrine And Reproductive System Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Endocrine And Reproductive System Study Guide
 - Personalized Recommendations
 - Endocrine And Reproductive System Study Guide User Reviews and Ratings
 - Endocrine And Reproductive System Study Guide and Bestseller Lists
5. Accessing Endocrine And Reproductive System Study Guide Free and Paid eBooks
 - Endocrine And Reproductive System Study Guide Public Domain eBooks
 - Endocrine And Reproductive System Study Guide eBook Subscription Services
 - Endocrine And Reproductive System Study Guide Budget-Friendly Options

6. Navigating Endocrine And Reproductive System Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Endocrine And Reproductive System Study Guide Compatibility with Devices
 - Endocrine And Reproductive System Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Endocrine And Reproductive System Study Guide
 - Highlighting and Note-Taking Endocrine And Reproductive System Study Guide
 - Interactive Elements Endocrine And Reproductive System Study Guide
8. Staying Engaged with Endocrine And Reproductive System Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Endocrine And Reproductive System Study Guide
9. Balancing eBooks and Physical Books Endocrine And Reproductive System Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Endocrine And Reproductive System Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Endocrine And Reproductive System Study Guide
 - Setting Reading Goals Endocrine And Reproductive System Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Endocrine And Reproductive System Study Guide
 - Fact-Checking eBook Content of Endocrine And Reproductive System Study Guide
 - 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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