

## AP Bio Chapter 40 Group Notes: Hormones and Endocrine Systems

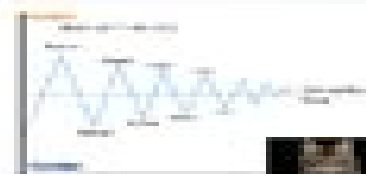

[LINK TO GOOGLE SLIDE PRESENTATION](#)

Team Members:

RSR&T (Highly Suggested Reading and Thinking)

1. (Big Idea 3: Information Storage, Transmission, and Response = "Identifying Insulin as a Chemical Messenger" (p764)
  - a. Why did scientists have a difficult time isolating insulin initially? Scientists had a difficult time because enzymes in the digestive juices destroyed insulin, a type of protein during the isolation process.
  - b. How did they: Blotting and Boil, isolate insulin? They took off the pancreatic duct which led to the destruction of digestive juices and not the production of insulin.
  - c. What were the four experimental procedures they used to identify that insulin was a chemical messenger? Four experimental procedures and identifying the source of the chemical, identifying the effect in the isolated, isolating the chemical, and show that the chemical has the desired effect.
  - d. How is insulin synthesized today? Insulin today is synthesized recombinant DNA technology, using the bacterium E. coli to produce the hormone.

### 40.1 Animal Hormones 2E2, 3D1, 3D3

<p><b>Introduction:</b></p> <ol style="list-style-type: none"><li>Hormones defined - chemicals that affect the behavior of other glands or tissues -</li><li>Hormones influence - the metabolism of cells, growth and development of body parts, and homeostasis -</li><li>Endocrine glands: secrete hormones into the blood stream (via tissue fluid) not ducts</li><li>Exocrine glands: secrete their products into ducts, which take them to the lumens of other organs or outside the body. For example, salivary glands</li></ol>	<p><a href="http://courses.lumenlearning.com/ap-bio/chapter/animal-hormones-of-animals/">http://courses.lumenlearning.com/ap-bio/chapter/animal-hormones-of-animals/</a></p>																					
<p><b>Hormones and Homeostasis:</b></p> <ol style="list-style-type: none"><li>Compared to the nervous system - Acts more slowly, but the effect is longer lasting.</li><li>Controlled by:<ol style="list-style-type: none"><li>Feedback loops -<ol style="list-style-type: none"><li>Negative feedback (many examples): the level of the hormone itself, or of some chemical induced by the hormone, inhibit the further secretion of the hormone</li><li>Positive feedback (few examples): the output intensifies and increases output of the system</li></ol></li><li>antagonistic hormones - <b>opposing</b>, hormones that have opposite effects</li></ol></li><li>Misfunctions:<ol style="list-style-type: none"><li>Hypersecretion: too <b>much</b></li><li>Hyposecretion: too <b>little</b></li></ol></li></ol>	<p><b>TABLE 42.1 SLATE BLUE</b></p> <p><b>Comparison of Nervous and Endocrine Systems</b></p> <table><tr><th></th><th>Nervous System</th><th>Endocrine System</th></tr><tr><td>Composed of</td><td>Neurons</td><td>Usually glands</td></tr><tr><td>Delivery</td><td>Rapid impulse and neurotransmitter</td><td>Hormones</td></tr><tr><td>How delivered</td><td>Axon and synapse</td><td>Usually bloodstream</td></tr><tr><td>Target</td><td>Muscles and glands</td><td>Cells throughout body</td></tr><tr><td>Response</td><td>Rapid short-lived</td><td>Slow, long-lasting</td></tr><tr><td>Controlled by</td><td>Negative feedback</td><td>Negative feedback</td></tr></table> <p><b>FIGURE 42.16 HORMONE ACTION: 09%</b></p> <div></div> <p><b>Hormones are chemical signals:</b></p>		Nervous System	Endocrine System	Composed of	Neurons	Usually glands	Delivery	Rapid impulse and neurotransmitter	Hormones	How delivered	Axon and synapse	Usually bloodstream	Target	Muscles and glands	Cells throughout body	Response	Rapid short-lived	Slow, long-lasting	Controlled by	Negative feedback	Negative feedback
	Nervous System	Endocrine System																				
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Response	Rapid short-lived	Slow, long-lasting																				
Controlled by	Negative feedback	Negative feedback																				

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**D Kirk**



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## **Table of Contents Lesson 30 Handout 56 Apush**

1. Understanding the eBook Lesson 30 Handout 56 Apush
  - The Rise of Digital Reading Lesson 30 Handout 56 Apush
  - Advantages of eBooks Over Traditional Books
2. Identifying Lesson 30 Handout 56 Apush
  - 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 Lesson 30 Handout 56 Apush
  - User-Friendly Interface
4. Exploring eBook Recommendations from Lesson 30 Handout 56 Apush
  - Personalized Recommendations

- Lesson 30 Handout 56 Apush User Reviews and Ratings
- Lesson 30 Handout 56 Apush and Bestseller Lists
- 5. Accessing Lesson 30 Handout 56 Apush Free and Paid eBooks
  - Lesson 30 Handout 56 Apush Public Domain eBooks
  - Lesson 30 Handout 56 Apush eBook Subscription Services
  - Lesson 30 Handout 56 Apush Budget-Friendly Options
- 6. Navigating Lesson 30 Handout 56 Apush eBook Formats
  - ePub, PDF, MOBI, and More
  - Lesson 30 Handout 56 Apush Compatibility with Devices
  - Lesson 30 Handout 56 Apush Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Lesson 30 Handout 56 Apush
  - Highlighting and Note-Taking Lesson 30 Handout 56 Apush
  - Interactive Elements Lesson 30 Handout 56 Apush
- 8. Staying Engaged with Lesson 30 Handout 56 Apush
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Lesson 30 Handout 56 Apush
- 9. Balancing eBooks and Physical Books Lesson 30 Handout 56 Apush
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Lesson 30 Handout 56 Apush
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Lesson 30 Handout 56 Apush
  - Setting Reading Goals Lesson 30 Handout 56 Apush
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Lesson 30 Handout 56 Apush
  - Fact-Checking eBook Content of Lesson 30 Handout 56 Apush

- 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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