

AP Bio Chapter 40 Group Notes: Hormones and Endocrine Systems

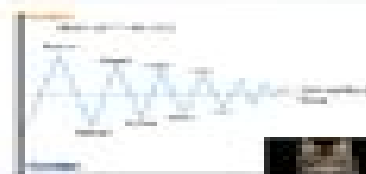

[LINK TO GOOGLE SLIDE PRESENTATION](#)

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 Bleed, 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 is to be studied, 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>Introduction:</p> <ol style="list-style-type: none">Hormones defined - chemicals that affect the behavior of other glands or tissues -Hormones influence - the metabolism of cells, growth and development of body parts, and homeostasis-Endocrine glands: secrete hormones into the blood stream (via tissue fluid) not ductsExocrine glands: secrete their products into ducts, which take them to the lumens of other organs or outside the body. For example, salivary glands	<p>http://courses.lumenlearning.com/ap-bio/say-3d-hormones-and-endocrine-systems-of-animals/</p>																					
<p>Hormones and Homeostasis:</p> <ol style="list-style-type: none">Compared to the nervous system - Acts more slowly, but the effect is longer lasting.Controlled by:<ol style="list-style-type: none">Feedback loops -<ol style="list-style-type: none">Negative feedback (many examples): the level of the hormone itself, or of some chemical induced by the hormone, inhibit the further secretion of the hormonePositive feedback (few examples): the output intensifies and increases output of the systemantagonistic hormones - opposing, hormones that have opposite effectsMisfunctions:<ol style="list-style-type: none">Hypersecretion: too muchHyposecretion: too little	<p>TABLE 42.1 SLATE BLUE</p> <p>Comparison of Nervous and Endocrine Systems</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>FIGURE 42.16 HORMONE ACTION: 09%</p> <div></div> <p>Hormones are chemical signals:</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																				
Composed of	Neurons	Usually glands																				
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Target	Muscles and glands	Cells throughout body																				
Response	Rapid short-lived	Slow, long-lasting																				
Controlled by	Negative feedback	Negative feedback																				

Apush Chapter Packet

Julia Schneider



Apush Chapter Packet:

Apush Chapter Packet Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Apush Chapter Packet**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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