

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



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Team Members:

**HSR&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, Banting and Best, isolate insulin?** They tied 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 are identifying the source of the chemical, identifying the effect 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><b>Introduction:</b></p> <ol style="list-style-type: none"><li>1. Hormones defined: -chemicals that affect the behavior of other glands or tissues -</li><li>2. Hormones influence: -the metabolism of cells, growth and development of body parts, and homeostasis-</li><li>3. Endocrine glands: secrete hormones into the -blood stream- (via tissue fluid) not ducts</li><li>4. 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="https://courses.lumenlearning.com/wm-biol/ogv1/chapter/reading-types-of-signals/">https://courses.lumenlearning.com/wm-biol/ogv1/chapter/reading-types-of-signals/</a></p>																											
<p><b>Hormones and Homeostasis:</b></p> <ol style="list-style-type: none"><li>1. Compared to the nervous system - Acts more slowly, but the effect is longer lasting.</li><li>2. Controlled by:<ol style="list-style-type: none"><li>a. Feedback loops -<ol style="list-style-type: none"><li>i. 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>ii. Positive feedback (few examples): the output intensifies and increases output of the system</li></ol></li><li>b. antagonistic hormones - -contrary-, hormones that have opposite effects</li></ol></li><li>3. Malfunctions:<ol style="list-style-type: none"><li>a. hypersecretion: too -much-</li><li>b. hyposecretion: too -little-</li></ol></li></ol>	<table><tr><th colspan="3">TABLE 42.1 SLATE BLUE</th></tr><tr><th colspan="3">Comparison of Nervous and Endocrine Systems</th></tr><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>Nerve impulse and neurotransmitter</td><td>Hormone</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>POSITIVE VS. NEGATIVE FEEDBACK LOOPS</p> <div></div> <p><b>Diagram of negative feedback loop:</b> A stimulus triggers a response that opposes the stimulus, leading to a stable state. Example: Body temperature regulation.</p> <p><b>Graph of negative feedback loop:</b> The output fluctuates around a set point, returning to baseline after a disturbance.</p>	TABLE 42.1 SLATE BLUE			Comparison of Nervous and Endocrine Systems				Nervous System	Endocrine System	Composed of	Neurons	Usually glands	Delivery	Nerve impulse and neurotransmitter	Hormone	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
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<p><b>Hormones are chemical signals:</b></p>																												

# Ap Biology Chapter 40

**Daniela Niemeyer**



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