

TEAM TOUGHIE SLIDE PRESENTATION

Team Members:

PREP< (Highly Suggested Reading and Thinking)

- Big Idea 3: Information Storage, Transmission, and Processing = "Identifying Insulin as a Chemical Message" (p.764)
- Why did scientists have a difficult time isolating insulin initially? Insulin is found in different places from our bodies. In the digestive juices stomach (secretes), a type of protein that has to be broken down.
- How did they站着 and bent, isolate insulin? They had to use the enzymatic attack which had the same destruction of digestive juices and use their procedures and theories.
- What were the four experimental procedures they used to identify that insulin was a chemical message? Four experiments of procedures and identifying the source of the chemical, identifying the effect of the insulin, isolating the chemical, and a few other that involved types of insulin and effects.
- How is insulin synthesized today? Insulin today is created through recombinant DNA technology, using the bacteria E. coli to produce the hormone.

40.1 Animal Hormones: 2002, 301, 3103Internal Secretion

- 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** (via tissue fluid) not ducts.
- Exocrine glands: secrete their products into ducts, which take them to the lumens of other organs or outside the body. (For example, salivary glands)

External Secretion is when endocrine glands release hormones into the blood stream. They are not localized.

Hormones and Homeostasis

- Compared to the nervous system - **slow, more diffuse, but the effects are longer lasting**.
- Controlled by:
 - Feedback loops:
 - negative feedback (some examples): the level of the hormone itself, or of some chemical induced by the hormone, inhibits the further secretion of the hormone.
 - positive feedback (few examples): the output increases and increases output of the part.
 - allosteric hormones - **coenzyme**, hormones that have disparate effects.
 - Homeostasis:
 - hypothalamic: **set points**
 - hypothalamic: **set points**

TABLE 40.1 **SLATE** **BLUE**

Comparison of Nervous and Endocrine Systems

	Nervous System	Endocrine System
Controlled by	Neurons	hormones
Delivery	nerve impulses and neurotransmitters	hormones
How delivered	Axon and synapse	blood
Target	Plasma and glands	cells throughout body
Response	rapid, localized	slow, long-lasting
Controlled by	neurotransmitters	hormones

HOMEOSTATIC REGULATIONHormones are chemical signals

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 been 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 into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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