

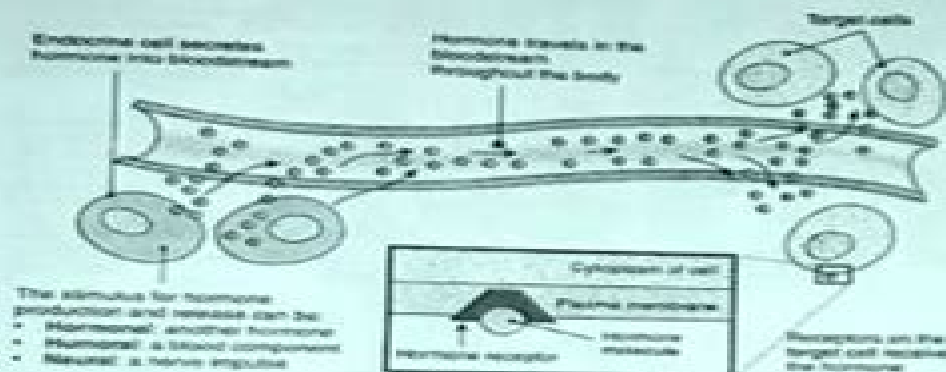
# Hormonal Regulatory Systems

**Key idea:** The endocrine system regulates physiological processes by releasing blood borne chemical messengers (called hormones) which interact with target cells. The endocrine system is made up of endocrine cells (organized into endocrine glands) and the hormones they produce. Hormones are potent chemical regulators. They are

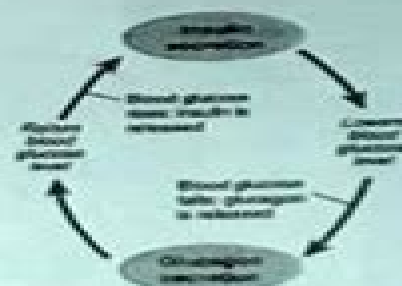
produced in very small quantities but can exert a very large effect on metabolism. Endocrine glands secrete hormones directly into the bloodstream rather than through a duct or tube. The basis of hormonal control and the role of negative feedback mechanisms in regulating hormone levels are described below.

## How Hormones Work

Endocrine cells produce hormones and secrete them into the bloodstream where they are distributed throughout the body. Although hormones are sent throughout the body, they affect only specific target cells. These target cells have receptors on the plasma membrane which recognize and bind the hormone (see inset, below). The binding of a hormone and receptor triggers the response in the target cell. Cells are unresponsive to a hormone if they do not have the appropriate receptors.



## Antagonistic Hormones



The effects of one hormone are often counteracted by an opposing hormone. Feedback mechanisms adjust the balance of the two hormones to maintain a physiological function. Example: insulin acts to decrease blood glucose and glucagon acts to raise it.

- (a) What are antagonistic hormones? Describe an example of how two such hormones operate.

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- (b) Describe the role of feedback mechanisms in adjusting hormone levels (explain using an example if this is helpful).

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- How can a hormone influence only the target cells even though all cells may receive the hormone?

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- Explain why hormonal control differs from nervous system control with respect to the following.

- The speed of hormonal responses is slower:

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- Hormonal responses are generally longer lasting:

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# Hormonal Regulatory Systems Answer Key

**Ying Liu**



## **Hormonal Regulatory Systems Answer Key:**

## Reviewing **Hormonal Regulatory Systems Answer Key**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Hormonal Regulatory Systems Answer Key**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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