

The Endocrine System

A few main points:

- ▶ **HORMONES** are molecules used to send messages throughout the body, the messages they send are normally slower and longer lasting than the messages sent by the nervous system.
- ▶ **HORMONES** affect bodily processes such as **GROWTH, DEVELOPMENT, METABOLISM, IMMUNE FUNCTION, REPRODUCTION, RESPONSE TO STRESS, WATER AND ELECTROLYTE BALANCE.**
- ▶ The Endocrine System helps maintain **HOMEOSTASIS** in the body using **NEGATIVE FEEDBACK.**
- ▶ Endocrine Glands secrete hormones directly into the bloodstream, therefore they travel far and can affect distant **TARGET CELLS/ORGANS.**

GLAND

an organ that secretes hormones.

ex: pituitary gland, thyroid, pineal gland, thymus, adrenal glands, parathyroid gland and pancreas.



ENDOcrine = releases hormones directly into bloodstream.

EXOcrine = releases secretions via ducts that lead outside the body.



How Hormones work

Hormones work by binding onto **RECEPTORS** on **TARGET CELLS**, both the hormone and receptor work together like a **"LOCK & KEY"**.

Each hormone (key) fits into a specific receptor (lock) like a key fits into a specific lock. Not all cells have the receptor that matches a specific hormone, therefore **NOT ALL CELLS ARE AFFECTED BY EACH HORMONE, ONLY THE ONES THAT HAVE THE MATCHING RECEPTOR.**



HORMONE

RECEPTOR
ON TARGET CELL

Hormones help maintain **HOMEOSTASIS** by keeping your body's characteristics (variables) within a certain **SET POINT** (normal range). If a variable is out of range from the set point, **NEGATIVE FEEDBACK** will initiate the return of that variable back towards the set point.



TARGET CELL

ENDOCRINE glands produce **HORMONES** and secrete them directly into the bloodstream. When these hormones arrive at their destination, the receptors on the target cells will receive the hormone.

EXOCRINE glands on the other hand, use **DUCTS** and release substances leaving the body, such as sweat, tears, oils and bile. Exocrine glands **DO NOT SECRETE HORMONES** and therefore **DO NOT USE RECEPTORS.**

Endocrine System Study Guide Packet

Michael Brown

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

Endocrine System Study Guide Packet:

Reviewing **Endocrine System Study Guide Packet**: 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 truly astonishing. Within the pages of "**Endocrine System Study Guide Packet**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on 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.

https://lyncweb.gulfbank.com/data/scholarship/Documents/Wellness_Planner_Review.pdf

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