

ENDOCRINOLOGY

LECTURE 1

Coordination of physiological processes

- In a living organism there must be coordination of a number of physiological activities taking place simultaneously such as:
 - Movement, respiration, circulation, digestion, excretion and metabolism
- The CNS and endocrine system (communicates from one organ to end organs via the circulation) represent the 2 major means by which these functions are coordinated
- It is a form of long distance communication and short distance communication (the cell talking to itself)

Long Distance Communication:

- Communication between cells that are not in contact is achieved through a number of chemical substances, which are secreted by releasing cells and interacting with specific receptors on distant target cells
- Signalling through these receptors leads to a specific physiological effect

1. Endocrine Signalling

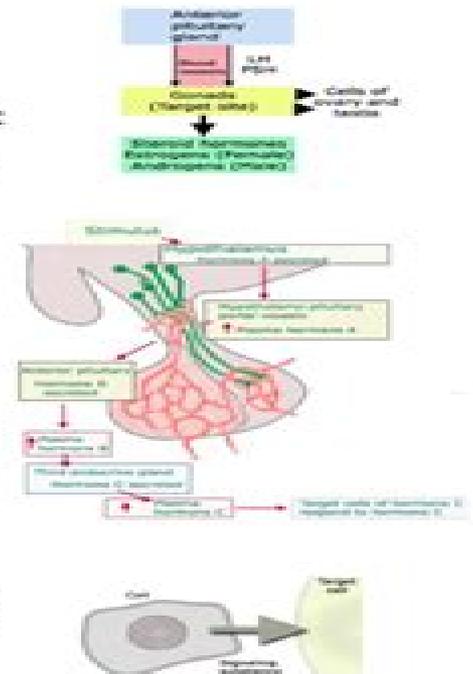
- Involves hormone secretion into the blood by an endocrine gland
- The hormone is transported by the blood to a distant target site → dedicated endocrine organs → upon binding, the primary hormone will release their own hormones to travel to end organs
- Upstream of the anterior pituitary gland is the hypothalamus
- Physiological negative feedback loops: end organs that produce hormones will give feedback and tell the pituitary to shut things down
- Long distance communication

2. Neuroendocrine Signalling

- Neuronal hypothalamus will release hypothalamic hormones, which will travel a short distance to the pituitary gland to communicate with specialized cells
- Long distance communication

3. Paracrine Signalling

- Cell will produce a hormonal factor which will go to a different cell that has the receptor for that hormone



Lecture Notes On Endocrinology

DJ Losen



Lecture Notes On Endocrinology:

Adopting the Beat of Appearance: An Emotional Symphony within **Lecture Notes On Endocrinology**

In a world eaten by screens and the ceaseless chatter of immediate interaction, the melodic beauty and mental symphony created by the written term usually disappear in to the background, eclipsed by the constant sound and disturbances that permeate our lives. However, situated within the pages of **Lecture Notes On Endocrinology** a stunning fictional prize full of organic emotions, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, that charming masterpiece conducts visitors on a mental trip, skillfully unraveling the concealed melodies and profound affect resonating within each carefully constructed phrase. Within the depths with this touching evaluation, we can explore the book is key harmonies, analyze their enthralling writing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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