

# 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

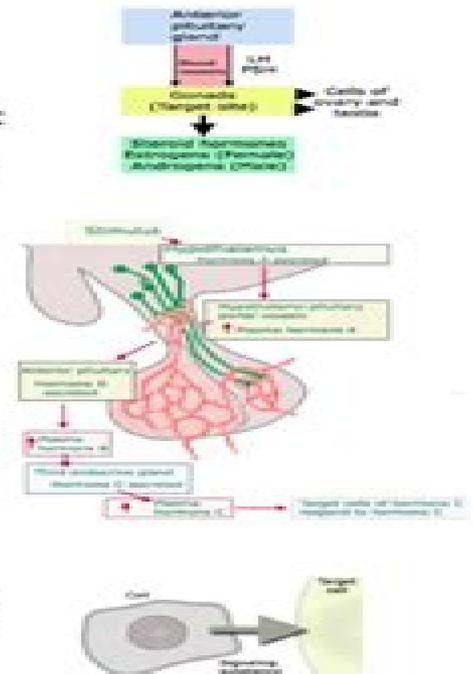
- Involves hormone secretion into the blood by an endocrine gland
- The hormone is transported by the blood to a distant target site → dedicated endocrine organs → upon binding, the primary hormone will release their own hormones to travel to end organs
- Upstream of the anterior pituitary gland is the 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

**Liyong Dong**



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