

L12- Endocrine System I

2/23

Outcomes:

- I. Intercellular Communication
 - CC types of intercellular communication
- II. Signaling Molecules
 - CC types of signals
 - CC, SEQ water-soluble and lipid-soluble pathways
- III. Endocrine Tissues and Glands
 - CC endocrine and exocrine

I. Intercellular Communication

A. Introduction to **Hormones**

- Greek – “to excite”
- Chemical signaling molecule responsible for regulation
- Messenger of endocrine system

Endocrine Signaling

- Secreted into body fluids, usually blood
- Binds to target cells
- All cells exposed, only those with correct receptor respond

Receptors

- Large proteins or glycoproteins on/in target cells
- Recognize and bind to **specific** hormones
- Receptors are responsible for the specificity of the endocrine system
- Continually synthesized and degraded
 - Hormone increase for long period → receptor down regulated
 - Hormone decrease for long period → receptor up-regulated
- *Way too low – make more receptors for it – maybe we can detect it*
- *Density of receptors for that hormone*

B. Types of Intercellular Communication

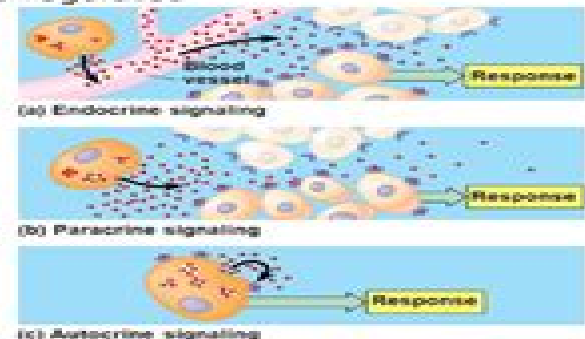
- Classified by:
 - Type of secreting cell – *what cell is sending the signal*
 - Route taken by signal to target cells

Endocrine Signaling

- Endocrine cells secrete hormones into extracellular fluid
 - *(through blood)*
- Diffuse into bloodstream → travel to target cells

Paracrine & Autocrine Signaling

- Cells produce and secrete local regulators (*instead of hormones*)
- Reach target cells by diffusion
- Short distance signaling, very quick
- **Paracrine:** Target cells near secreting cells (*in immediate vicinity*)
- **Autocrine:** Target is itself (*cell releases a signal and detects that same exact signal*)



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