

AP Ch. 5.6 Cell to Cell Communication (Read only p. 114-119)

Cell Communication Amoeba Sisters Cell-to-cell Communication (Bozeman)

p.114

Kahn Academy

- 1) Most cells communicate with **chemical** messengers.
- 2) A **Signal Transduction Pathway** is the series of steps that converts a specific signal into a cellular response.
- 3) **Local Signaling** (AKA Juxtacrine*) is when cells communicate with other cells that are adjacent to them or in the same immediate area.
KNOW THIS!

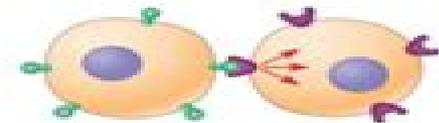


These signals can pass from cell to cell through:

Gap junctions in animals

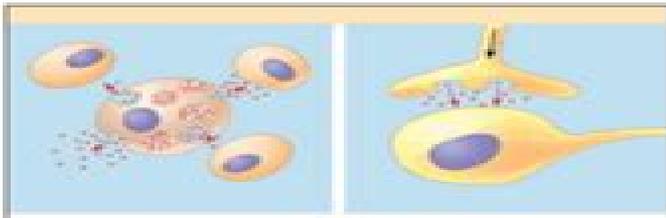
Plasmodesmata in plants

These signals can also occur when cells come into direct contact through **cell to cell recognition**



***Autocrine** is a cell communicating with self

- 4) Some cells secrete **local regulators** out of their cells that signal cells that are around them.



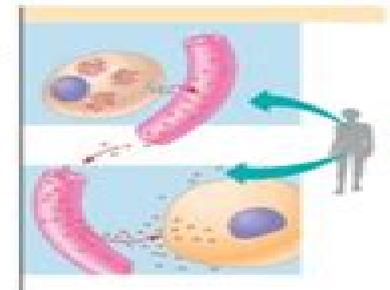
Two types of local chemical signaling:
KNOW THIS!

* **Paracrine** – secreting cells signal cells around them (growth factors)

Synaptic - Nerve cells secrete neurotransmitters

- 5) In both plants and animals **long distance signaling** is accomplished by chemicals called **hormones** that reach specific target cells and stimulate a response. This type of signaling is known as **endocrine signaling**
KNOW THIS!

- 6) Nervous system signals sent through neurons are also considered long distance signaling.



***KNOW: Autocrine, Juxtacrine, Paracrine, Endocrine (p.114)**

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Zhe Xu



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