

## 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!**

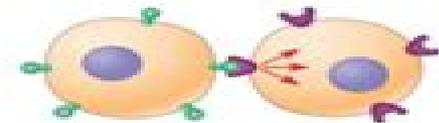


These signals can pass from cell to cell through:

**Gap junctions** in animals

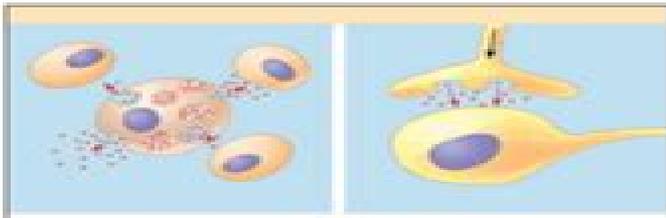
**Plasmodesmata** in plants

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.



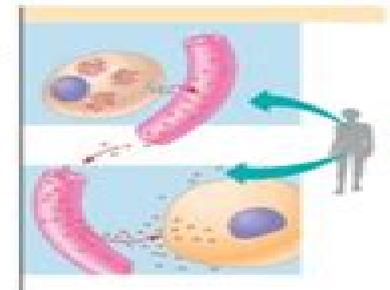
Two types of local chemical signaling:  
**KNOW THIS!**

\* **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)**

# Biology Cell Communication D Answers

**Thirumalaisamy P.  
Velavancorresponding**



**Biology Cell Communication D Answers:**

## **Biology Cell Communication D Answers** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Biology Cell Communication D Answers**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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