

Chapter 11 - Cell Communication

Three major steps in cell communication/cell signaling

- Signal reception
- Signal transduction (signal transduction pathway)
- Cellular response
- These steps allow the right cellular activities to occur at the right time

Local and long-distance signaling

- Cells communicate using specific signaling molecules for specific cells
 - These cells may be adjacent or nearby or even directly connected (local)
 - These cells may be far away from each other (long-distance)

Local signaling at cell junctions

- Many animal and plant cells communicate by direct contact
- These cells have junctions that directly connect the cytoplasm of adjacent cells
- Signaling substances can pass between neighboring cells

Local signaling through cell surface molecules

- Occurs in animal cells, cells communicate by direct contact between cell surface molecules
- Important in embryonic development, immune responses, and maintaining stem cell populations
- Signaling molecules can be excreted by cells and travel short distances to their target cells (paracrine signaling)
 - Growth factors use paracrine signaling to stimulate growth and division in nearby cells

Synaptic signaling

- A specialized form of local signaling in animal nervous systems
- Molecules act as chemical signals and diffuse across the synapse
- This triggers a response in the target cell

Animal and plants

- Use hormones for long distance signaling (endocrine signaling)
- Specialized cells release hormones which travel through the circulatory system to other parts of the body to the target cells that recognize and respond to the hormones
- The target cells must have receptors that recognize and bind the hormone molecule
- Hormones in action
 - Insulin → regulates blood sugar
 - Ethylene → regulates fruit ripening and growth

Biology Cell Communication D Answers

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