

Chapter 11: Cell Communication

Chapters 9, 10, and 11 form three of the most difficult chapters in the book. The special challenge in Chapter 11 is not that the material is so difficult, but that most of the material will be completely new to you. Cell communication is normally not covered in standard high school biology books, yet perhaps no other section of biology has grown as much as cell signaling in the last ten years. Take your time with this section, and you will be rewarded with a knowledge base that will be most helpful in this course and courses to come.

Concept 11.1 External signals are converted into responses within the cell

1. What is a *signal transduction pathway*?

A series of steps linking a mechanical, chemical, or electrical stimulus to a specific cellular response

2. How does yeast mating serve as an example of a signal transduction pathway?

Saccharomyces cerevisiae cells use chemical signaling to identify cells of opposite mating type and initiate the mating process. The two mating types and their corresponding chemical signaling molecules, or mating factors, are called a and α .

3. What is *quorum sensing*? How is it related to *biofilms*?

Bacterial cells secrete small molecules that can be detected by other bacterial cells. The concentration of such signaling molecules, sensed by the bacteria, allows them to monitor the local density of cells, a phenomenon called quorum sensing. Quorum sensing allows bacterial populations to coordinate their behaviors so they can carry out activities that are only productive when performed by a given number of cells in synchrony. One example is formation of a biofilm, an aggregation of bacterial cells adhered to a surface; the cells in the biofilm generally derive nutrition from the surface they are on.

4. Complete the chart of local chemical signaling in cell communication in animals.

Local Signaling Types	Description	Specific Example
Paracrine signaling	A secreting cell acts on nearby target cells by discharging molecules of a local regulator into the extracellular fluid.	Growth factors
Synaptic signaling	A nerve cell releases neurotransmitter molecules into a synapse, stimulating the target cell.	Animal nervous system

Chapter 11 Cell Communication Reading Guide Answers

Ellen C. Huft



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