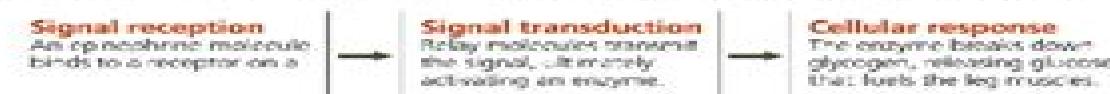


Chapter 11: Cell Communication

- 11.1 Describe how external signals are converted to responses within cells.
- 11.2 Identify different types of signal receptors and explain how they function.
- 11.3 Explain the roles of phosphorylation, dephosphorylation, and second messengers in signal transduction.
- 11.4 Describe how cells respond to signaling, including fine-tuning of the response.
- 11.5 Use apoptosis as an example to illustrate how multiple signaling pathways can be integrated in a cell.

The special challenge in Chapter 11 is not that the material is difficult to understand but that most of the material may be completely new to you. Cell communication is often not covered in introductory high school biology courses, yet perhaps no other section of biology has grown as much as our understanding of cell signaling in the last decade. 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.

Study Tip: Figure 11.1 in your text explains the desperate flight of an impala at the cellular level. It shows how the signal (sensing a cheetah nearby) leads to the release of more glucose to power an escape. Although the specific details are unique to the signal, cell signals show three definite stages. Label and describe the three stages for this example in the boxes below. These three stages of the cell signal response are consistent across all types of cell signals.



See page 212 of your text for the labeled figure.

Concept 11.1 External signals are converted to responses within the cell

LO 11.1: Describe how external signals are converted to responses within cells.

1. Cell signaling in bacteria provides evidence this is an ancient process that first evolved hundreds of millions of years ago. What is *quorum sensing*, a signaling mechanism seen in bacteria today? 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

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