

Chapter 39: Plant Responses to Internal and External Signals

Concept 39.1 Signal transduction pathways link signal reception to response

This concept brings together the general ideas on cell communication from Chapter 11 with specific examples of signal transduction in plants. As with animals, plants have receptors that trigger signal transduction pathways when activated. Let's begin with a review of three steps in signal transduction.

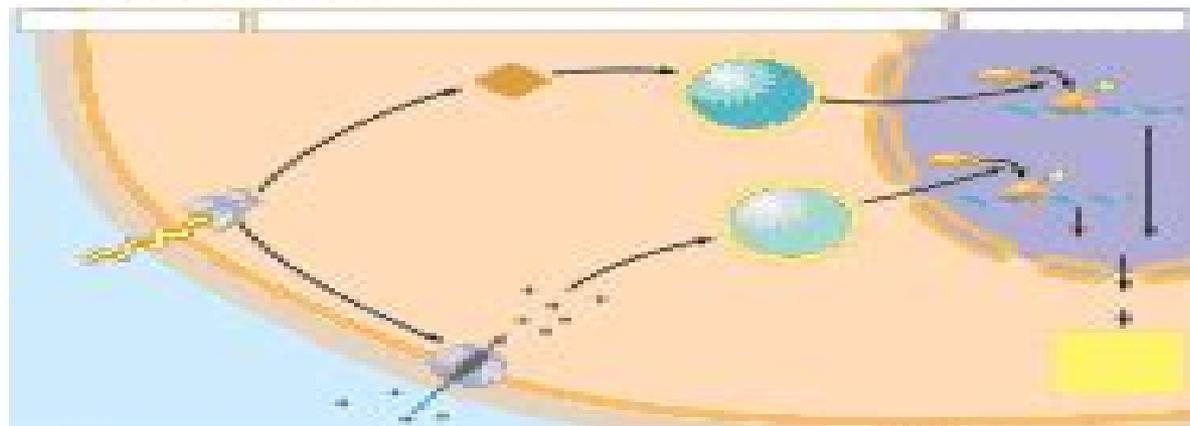
Step 1: Reception. Cell signals are detected by receptors that undergo changes in shape in response to a specific stimulus.

Step 2: Transduction. Transduction is a multistep pathway that amplifies the signal. This effect allows a small number of signal molecules to produce a large cellular response.

Step 3: Response. Cellular response is primarily accomplished by two mechanisms:

- increasing or decreasing mRNA production
- activating existing enzyme molecules

- Have you ever seen a shriveled potato sending out skinny, pale sprouts? What is this called?
- If you move the potato into the light, the sprout will respond by forming short, sturdy stems and broad, green leaves. What is this response to light called?
- The figure below gives a specific example of a signal transduction in plants for the *greening or de-etiolation* response described above. Label these parts of the figure: reception, transduction, response, phytochrome, signal, Ca^{2+} channel, second messenger (cGMP), protein kinase, transcription factor, and DNA.



Ap Biology Reading Guide Answers Chapter 39

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