

Name: 

Cell Communication Study Guide

1. What is a signal transduction pathway? Give an example

A signal transduction pathway is the process in which a signal is converted into a cellular response because of multiple steps. An example of a transduction pathway is the process of tasting food.

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

A series of steps is triggered by pheromones that causes the yeast to grow towards its opposite.

3. How do intercellular connections function in cell-to-cell communication?

Molecules are allowed to pass from cell to cell because of gap junctions within the cell.

4. Explain the difference between paracrine and synaptic signaling.

- Paracrine- signal to nearby cells
- Synaptic- signals to cells passed by neurotransmitters

5. How are long distance signals sent? Give an example in the body

Long distance signaling is done by hormones in the circulatory system reaching its target cells. An example includes insulin targeting cells to regulate sugar levels.

6. How do nerve cells provide example of both local and long distance signaling?

Nerve cells can signal locally by an electric signal while long distance requires a repeated series of an electrical signal being transmitted into a chemical one then back until it reaches the target cells.

7. A signal transduction pathway has three stages. Use Figure 11.6 to label the missing parts of the preview figure below, and then explain each step.

Biology Cell Communication Study Guide

Zhe Xu



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