

Chapter 11 Study Guide

Name: _____

Date: _____

Do not copy - paste from any resource or utilize AI to answer the following questions. When asked to draw - draw and insert a photo of your drawing - do not insert figures or images from any outside resource.

1. Using yeast as an example – explain cell communication in your own words.

Cell communication is the cell's ability to receive and send signals with other cells leading to different functions. Yeast cells communicate when mating sexually through chemical signaling. The chemical signal is only able to bind to a specific receptor with the opposite mating type. Only certain receptors can receive the different signals and they each receptor may react differently in cell communication.

2. Determine if the following terms are referencing local or long distance signaling.

Hormonal - long distance

Secretory Cell - local

Paracrine - local

Target cell - local

Synaptic - local

Autocrine – local (discussed in class)

Endocrine – long distance

Neurotransmitter - local

3. List and describe the three steps of a signal transduction pathway?

Use the figure at right to illustrate your explanations.

1. **Signal Reception:** The target cells detect the signaling molecule that comes from outside of the cell. The first purple shape is a receptor protein that the signaling molecule is binding to.

2. **Signal Transduction:** The binding of the signaling molecule changes the shape of the receptor protein to a sphere which initiates transduction.

3. **Cellular Response:** Then a specific cellular response is triggered, which may change shape or cause the cell to grow. This could be catalysis by an enzyme or activation of specific genes in the nucleus. The last step in the figure is the activation of an existing protein.



4. What is the first event to occur when a ligand (signaling molecule) binds to a receptor?

When ligand binds to the receptor, Tyrosine kinases come together to activate the receptor.

5. **Reception: G-Protein Linked Receptors.** Using Figure 11.8 as a reference. Place the following steps in the correct order. Practice drawing this pathway, describing out loud each step.

A. GTP displaces the GDP – activating the G protein.

B. The activated enzyme then triggers a transduction pathway

C. Receptor is activated and changes shape

D. The activated G protein moves along the cytoplasmic side of the membrane until it binds to an inactive enzyme.

E. Ligand binds to a G protein coupled receptor

Modern Biology Ch 18 Study Guide

Wenbin Ji



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