

Chapter 11: Cell Communication

1. What is a signal transduction pathway?

A signal transduction pathway is the series of steps by which a signal from outside the cell is converted (transduced) into a functional change within the cell.

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

Yeast cells use chemical signaling to identify cells of opposite mating type (a and α) and initiate the mating process.

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

Local Signaling Types	Specific Example
paracrine	numerous cells can simultaneously receive and respond to molecules of growth factor (consisting of compounds that stimulate nearby target cells to grow and divide) produced by a single cell in their vicinity
synaptic	an electrical signal along a nerve cell triggers the secretion of neurotransmitter molecules carrying a chemical signal that diffuse across the synapse, triggering a response in a target cell

4. How does a hormone qualify as a long-distance signaling example?

In endocrine signaling (hormonal signaling in animals), hormone molecules are released by specialized cells, which travel to other parts of the body through the circulatory system to reach target cells that recognize and respond to the hormones. Plant hormones (plant growth regulators) sometimes travel in vessels but more often reach their targets by moving through cells or by diffusing through the air as a gas.

5. A signal transduction pathway has three stages. Explain each step. ✍

During reception, the target cell's detection of a signaling molecule coming from outside the cell, a chemical signal is "detected" when the signaling molecule binds to a receptor protein located at the cell's surface or inside the cell.

During transduction, the signal is converted to a form that can bring about a specific cellular response. The binding of the signaling molecule changes the receptor protein in some way, initiating the second stage.

The specific cellular response triggered by the transduced signal may be almost any imaginable cellular activity.

6. What is a ligand?

A ligand is a molecule that specifically binds to another molecule, often a larger one. Ligand binding generally causes the receptor protein to undergo a change in shape.

7. What is a G protein-coupled receptor? Describe the role of the three components in the first stage. ✍

A G protein-coupled receptor (GPCR) is a cell-surface transmembrane receptor that works with the help of a G protein, a protein that binds the energy-rich molecule GTP. GPCRs vary in the binding sites for their signaling molecules (ligands) and also for different types of G proteins inside the cell. In the first stage, the G protein is loosely attached to the cytoplasmic side of the membrane, where it functions as a molecular switch that is either on or off, depending on which of two guanine nucleotides is attached, GDP or GTP. When GDP is bound to the G protein, the G protein is inactive. The receptor and G protein work together with another protein, usually an enzyme.

8. Describe what happens in the second stage. ✍

When the appropriate signaling molecule binds to the extracellular side of the receptor, the receptor is activated and changes shape. Its cytoplasmic side then binds an inactive G protein, causing a GTP to displace the GDP. This activates the G protein.

9. Describe what happens in the third stage. ✍

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