

Chapter: 11, Cell Communication

Key Message/Theme of Chapter:

Cellular communication occurs by sending and receiving signals that are triggered and transmitted across the cellular membrane.

Vocab:

1. **Phosphorylation Cascade:** a series of different proteins in a pathway are phosphorylated and each protein adds a phosphate group to the next protein in the queue.
2. **Scaffolding proteins:** Large relay proteins to which several other large proteins simultaneously attach and increase the efficiency of signal transduction.
3. **Receptor tyrosine kinases (RTKs):** react to the binding of signaling molecules and add phosphate groups to the tyrosines to make up a dimer.
4. **Apoptosis:** programmed cell death in which the components are disposed of in an orderly manner.
5. **G-Protein-coupled receptor (GPCR):** a cell-surface transmembrane receptor that works along with G-Protein that binds to the energy molecule GTP.

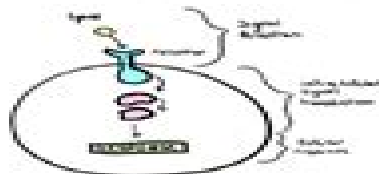
What was the most challenging material in the chapter? How would you explain it now?

One of the most challenging materials in this chapter was second messengers. This concept can be somewhat confusing because in this chapter there are multiple ways in which a cell can directly send a signal to another cell. Second messengers differ in the fact that they are small molecules or ions that indirectly help transduce a signal. Second messengers are water soluble which enables their spread during diffusion. Additionally, second messengers participate in GPCR and RTK pathways. The best definition of a second messenger is a molecule that relays messages in a cell from a receptor to a target where an action in the cell takes place.

Test Questions:

If a G protein was locked in its active state what would increase? Explain why.	The amount of cAMP created would increase because the enzyme adenylyl cyclase would be continuously stimulated leading to the production of more cAMP with nothing inhibiting it.
What's the difference between cAMP and AMP?	5 carbons, 2 more phosphate groups, water , 3 carbons
True or False. G-protein coupled receptors can activate many signal pathways while receptor tyrosine kinases can only activate one.	False. RTKs can activate multiple relay proteins by having each bind to a phosphorylated tyrosine that triggers its own transduction pathway while GPCRs can't because it can only bind to one g protein at a time.

Major Processes (Draw it Out):



How does this material relate to last week's material?

Major Themes of Last Week	How does it connect?
Light energy is converted to chemical energy through the light reactions and the Calvin Cycle	Photosynthesis produces sugars that are used by the cell for energy. A cell can use cell signaling to indicate to other cells that they need to do photosynthesis because the plant needs energy.

Chap 11 Cell Communication Study Guide Key

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Worley, Barbara L. Hoffman**

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