

**AP Biology
Ch.11 Cell Communication
Worksheet**

name: _____
block: _____
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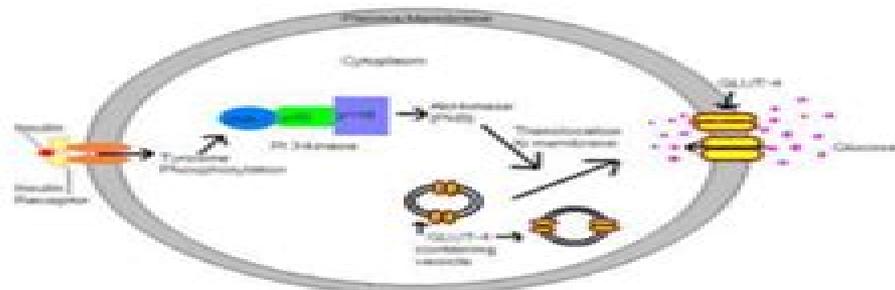
1. Signaling in microbes has much in common with processes in multicellular organisms. What does this suggest about it's evolutionary origin?
2. Give an example of local regulation with some details.
3. Why are hormones considered long-distance signals?
4. Earl Sutherland discovered how the hormone epinephrine (adrenaline) acts on cells. Use this as an example to illustrate the three stages of cell signaling: reception, transduction and response.
5. The cleavage of glycogen by glycogen phosphorylase releases _____.
6. A signal transduction pathway is initiated when a specific _____ binds to its receptor like a _____ and _____.
7. A signal molecule is also known as a(n) _____.
8. How does the bonding of a ligand to its receptor transduce the message? It causes the protein to _____.

9. **Matching:** match the messenger molecule with its receptor's location.

epinephrine (adrenalin)
estrogen
non-polar signal molecule
water-soluble signal molecule
thyroid hormone
neurotransmitters
insulin (see diagram)
ion gated channels

M. cell membrane receptor
IC. Intracellular receptor

Insulin Signaling Pathway for Glucose Transport Chain



10. **Matching:** match the receptor to the characteristics

G-protein-linked receptor

tyrosine-kinase receptors

ligand-gated ion channels

?	?	? and ?	?
7 alpha helices GTP Active G protein Adenylyl cyclase cAMP Protein Kinase A Cell response	Ligand binds Gate opens Ion flow Rapid ion concentration change Cell response Examples: Post-synaptic membrane, Ca ²⁺	Phospholipase C PIP ₂ DAAG IP ₃ Ca ²⁺ fig. 11.12 (second messengers)	Signal molecules bind Dimer formation Phosphorylation Multiple relay proteins Cell response 1 Cell response 2 growth factors

11. What does a protein phosphatase actually do to end a signal transduction?
12. Which of the following are regulated by signaling pathways? You may choose more than one.
 - a. enzyme activity
 - b. cytoskeleton rearrangement
 - c. genes
 - d. activating transcription factors to turn genes on and off.
13. A protein kinase activating many other protein kinases is an example of _____.
14. Calcium ions that act as second messengers are stored in _____.

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Zhe Xu



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