

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

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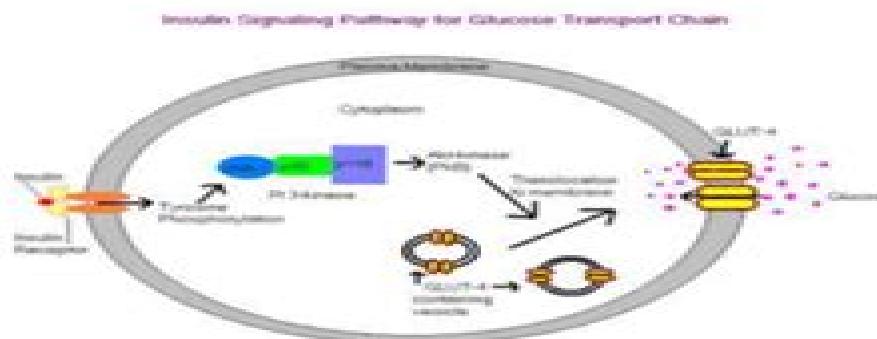
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1. Signalling in microbes has much in common with processes in multicellular organisms. What does this suggest about it's evolutionary origin?
2. Give an example of local regulation with some details.
3. Why are hormones considered long-distance signalers?
4. Earl Sutherland discovered how the hormone epinephrine (adrenaline) acts on cells. Use this as an example to illustrate the three stages of cell signalling: 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



10. Matching: match the receptor to the characteristics.

G-protein-linked receptor

tyrosine-kinase receptors

ligand-gated ion channels

| ?   | ?  | ?  | ?  |
|---|--|--|--|
| 7 alpha helices<br>GTP<br>Active G protein<br>Adenylyl cyclase<br>cAMP<br>Protein Kinase A<br>Cell response | Ligand binds<br>Gate opens<br>Ion flow<br>Rapid ion concentration change<br>Cell response<br>Examples:<br>Post-synaptic membrane, $\text{Ca}^{2+}$ | Phospholipase C<br>$\text{PIP}_2$<br>DAG<br>$\text{IP}_3$<br>$\text{Ca}^{2+}$<br>Fig. 11-12<br>(second messengers) | Signal molecules bind<br>Dimer formation<br>Phosphorylation<br>Multiple relay proteins<br>Cell response 1<br>Cell response 2<br>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.
  - enzyme activity
  - cytoskeleton rearrangement
  - genes
  - 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 \_\_\_\_\_.

# Cell Communication Ap Biology Guide Answer

**John Michels (Journalist)**

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