

AP Biology Ch.11 Cell Communication Worksheet

name: _____
block: _____
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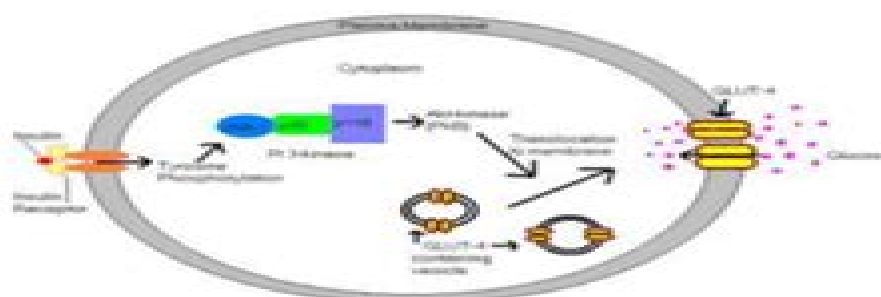
1. Signaling in microbes has much in common with processes in multicellular organisms. What does this suggest about it's evolutionary origin?
2. Give an example of local regulation with some details.
3. Why are hormones considered long-distance signals?
4. Earl Sutherland discovered how the hormone epinephrine (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^{++}	Phospholipase C PIP_2 DAG IP_3 Ca^{++} 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 _____.

Cell Communication Ap Biology Guide Answer

John Michels (Journalist)



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CliffsNotes AP Biology, 5th Edition Phillip E. Pack, 2016-12-20 Score higher with this new edition of the bestselling AP Biology test prep book Revised to even better reflect the AP Biology exam this AP Biology test prep guide includes updated content tailored to the exam administered every May Features of the guide focus on what AP Biology test takers need to score high on the exam Reviews of all subject areas In depth coverage of the all important laboratory investigations Two full length model practice AP Biology exams Every review chapter includes review questions and answers to pinpoint problem areas

AP Biology Prep Plus 2020 & 2021 Kaplan Test Prep, 2020-03-03 Kaplan's AP Biology Prep Plus 2020 2021 is revised to align with the latest exam This edition features hundreds of practice questions in the book complete explanations for every question and a concise review of high yield content to quickly build your skills and confidence Test like practice comes in 3 full length exams 16 pre chapter quizzes and 16 post chapter quizzes Customizable study plans ensure that you make the most of the study time you have We're so confident that AP Biology Prep Plus offers the guidance you need that we guarantee it after studying with our online resources and book you'll score higher on the AP exam or you'll get your money back To access your online resources go to kaptest.com moreonline and follow the directions You'll need your book handy to complete the process The College Board has announced that the 2021 exam dates for AP Biology will be May 14 May 27 or June 11 depending on the testing format Each school will determine the testing format for their students Expert Guidance We know the test our AP experts make sure our practice questions and study materials are true to the exam We know students every explanation is written to help you learn and our tips on the exam structure and question formats will help you avoid surprises on Test Day We invented test prep Kaplan kaptest.com has been helping students for 80 years and 9 out of 10 Kaplan students get into one or more of their top choice colleges

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