

Free ebook Biology cell signaling response questions and answers (PDF)

many signaling pathways cause a cellular response that involves a change in gene expression gene expression is the process in which information from a gene is used by the cell to produce a functional product typically a protein it involves two major steps transcription and translation in this section you will explore the following questions how do signaling pathways direct protein expression cellular metabolism and cell growth what is the role of apoptosis in the development and maintenance of a healthy organism connection for ap courses when a signaling molecule binds to its receptor it alters the shape or activity of the receptor triggering a change inside of the cell signaling molecules are often called ligands a general term for molecules that bind specifically to other molecules such as receptors the chains of molecules that relay signals inside a cell are known as intracellular signal transduction pathways here we ll look at the general characteristics of intracellular signal transduction pathways as well as some relay mechanisms commonly used in these pathways signaling molecules may trigger any number of cellular responses including changing the metabolism of the cell receiving the signal or result in a change in gene expression transcription within the nucleus of the cell or both list and explain the different types of intracellular responses possible for a given signal distinguish among relay amplification integration and distribution steps in a signaling cascade correctly interpret schematic representations of signaling cascades the initiation of a signaling pathway is a response to external stimuli this response can take many different forms including protein synthesis a change in the cell s metabolism cell growth or even cell death the initiation of a signaling pathway is a response to external stimuli this response can take many different forms including protein synthesis a change in the cell s metabolism cell growth or even cell death study with quizlet and memorize flashcards containing terms like cells communicate directly via juxtacrine signaling gap junctions and more signaling cells secrete ligands that bind to target cells and initiate a chain of events within the target cell the four categories of signaling in multicellular organisms are paracrine signaling endocrine signaling autocrine signaling and direct signaling across gap junctions paracrine signaling takes place over short distances study with quizlet and memorize flashcards containing terms like what are the three major steps of signal transduction describe reception describe transduction and more connect what you have learned about signaling pathways to provide a hypothesis for why signaling differs between types of organisms specifically why is signaling in multicellular organisms more complicated than signaling in single celled organisms explain nervous system response to signal 2006 b 2 2006b all questions scoring guidelines sample responses q2 impact of structure on function of enzyme catalysis rna protein synthesis cell membranes signal transduction membrane proteins facilitated diffusion active transport allow types of cells to respond differently to the same signal molecule amplify the effect of a signla molecule convert a signal on a cell s surface to

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another cell is termed cell signaling explore more cell signaling here are
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signaling a all of these choices are correct b enzyme activities are changed c
gene expression patterns are changed d cell division is triggered e cell
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pts a signal molecule that binds to a plasma membrane protein is a ligand
second messenger protein kinase receptor protein 2 multiple choice 20 seconds
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general yes or no questions to help reduce risk and make it easier for them to
respond such as are you safe can i be a part of your safety plan do you want me
to call 911 this is something you should only do if the survivor asks you to
can i call a shelter on your behalf should i search for services to help and
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signaling molecules may trigger any number of cellular responses including changing the metabolism of the cell receiving the signal or result in a change in gene expression transcription within the nucleus of the cell or both

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list and explain the different types of intracellular responses possible for a given signal distinguish among relay amplification integration and distribution steps in a signaling cascade correctly interpret schematic representations of signaling cascades

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allow different types of cells to respond differently to the same signal
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surface to a specific cellular response

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to respond such as are you safe can i be a part of your safety plan do you want
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~~me to call 911 this is something you should only do if the survivor asks you to~~
can i call a shelter on your behalf should i search for services to help and
call you back

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a signal emitting cell communicates with a far away cell by releasing long
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