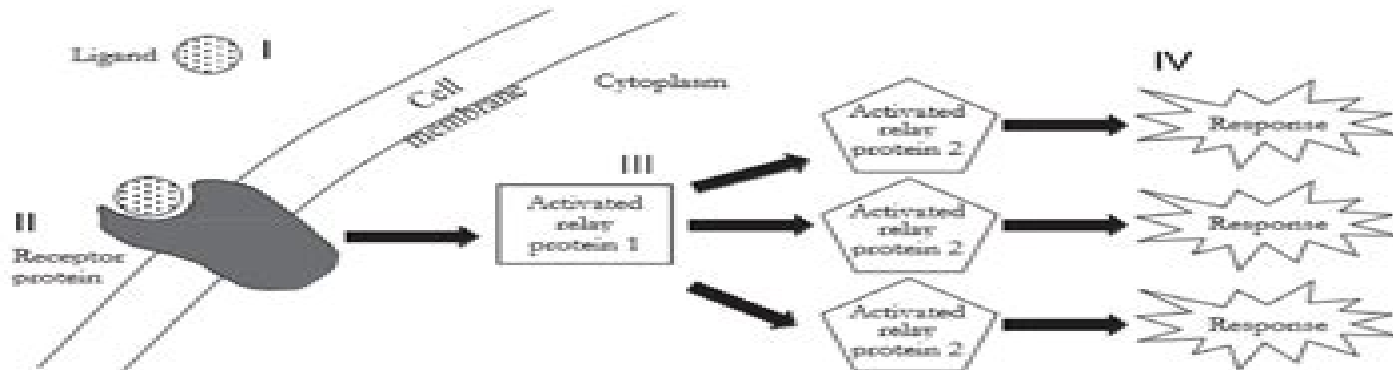


Signal Transduction Pathways

Why? What happens inside of a cell when a signal has been received?

When cells release signal molecules (ligands) to send a message, and the message is received, a whole host of events take place inside the cell. The ultimate goal is a response—a gene is turned on, a protein is manufactured, an enzyme is activated, the cell divides or dies, etc. There are many responses that could occur, but the pathways to those responses are very similar.

Model 1 – Basic Signal Transduction Pathway



1. According to Model 1, does the signal transduction pathway occur inside or outside of a cell?
Highlight your answer: **INSIDE** **OUTSIDE**

2. The four steps in the signal transduction pathway are listed below. Label the diagram above with the Roman numerals to indicate where on the diagram each step is taking place. Double click on the image to label

- I. Signaling
- II. Reception
- III. Transduction
- IV. Response

Signal Transduction Pathways Worksheet Answers

John Michels (Journalist)



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