

Signal Transduction Pathways

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

Why?

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?
2. Compare the shape of the ligand in Model 1 to the shape of the receptor protein.



3. 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.
 - I. Signaling
 - II. Reception
 - III. Transduction
 - IV. Response

Pogil Signal Transduction Pathways

Joacim Rocklöv



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