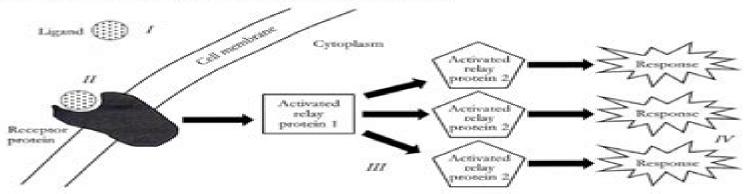
Signal Transduction Pathways

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



- According to Model 1, does the signal transduction pathway occur inside or outside of a cell?
 Inside.
- 2. Compare the shape of the ligand in Model 1 to the shape of the receptor protein.

The shapes of the ligand and receptor proteins are compatible so the ligand will fit into the active site on the receptor protein.

- 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

See Model 1.

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

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