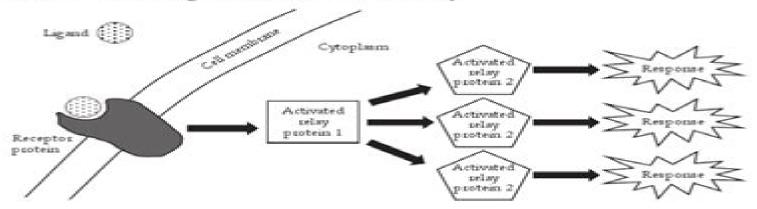
## Signal Transduction Pathways

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

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**Marco Weismüller** 

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