

Chapter 11 - Cell Communication

the inside of a cell receives information from the receptor on the membrane of the cell. the conversion process is called a signal transduction pathway

or Transduction

Reception $\rightarrow$ Conversion $\rightarrow$ Response

binding $\rightarrow$ [STPathway] $\rightarrow$ something is activated on membrane

Local vs. Long - Distance Signaling

Local : very close to each other (ex. growth factors)

Long - Distance : hormones made by one type of cell that travel through the bloodstream to an unrelated target cell

Reception

ex. a yeast signals are received by α cells

- receptor ~~cell~~ proteins allow for a protein to "hear" hormones
- the signaling molecule (or ligand) binds to a specific receptor, denaturing + activating it

ligand binding = allosteric regulator + enzyme

activation through denaturing