

Ch11 Chapter Questions

1. What is the signal transduction pathway?
2. Where do scientists think that signaling mechanisms first evolved?
3. Explain the following types of cell signaling: cell junctions, cell-cell recognition, paracrine, synaptic, and hormonal signaling
4. Define the 3 stages of cell signaling: reception, transduction, and response
5. What is a ligand?
6. Read and summarize the steps of the G Protein-coupled receptors.
7. Read and summarize the steps of the receptor Tyrosine Kinases.
8. What are ligand-gated ion channels?
9. What is a phosphorylation cascade and what is the purpose?
10. What are second messengers? List some examples in the cell.
11. What types of responses can occur from cell signaling?
12. What is apoptosis?