

Cell Biology - Chapter 11 - Signaling Cells

This chapter is difficult to produce and covered in my own laboratory's Biology course. If you reading this chapter at least once and get a really good idea about the concepts, please email me my message about how to do this (I will be happy to help you with anything, including figures and diagrams)

1. What is signal?

1.1. Signal is information

2. What is information content?

2.1. Information content is a measure of the amount of information

3. Describe the following types of cell signaling

- a. Contact Signaling: Cells that are directly adjacent to one another. Signaling molecules are released from one cell and bind to receptors on the surface of the adjacent cell. (e.g., gap junctions, hemidesmosomes, and desmosomes)
- b. Paracrine Signaling: Signaling molecules released by one cell and bind to receptors on the surface of nearby cells. (e.g., neurotransmitters, cytokines, and growth factors)
- c. Endocrine Signaling: Signaling molecules released by one cell and bind to receptors on the surface of distant cells. (e.g., hormones, neurotransmitters, and growth factors)
- d. Synaptic Signaling: Cells that are directly adjacent to one another. Signaling molecules are released from one cell and bind to receptors on the surface of the adjacent cell. (e.g., neurotransmitters, cytokines, and growth factors)

4. What is signal transduction?

4.1. Signal transduction is the process by which a signal is converted into a cellular response. (e.g., signal transduction pathways)

5. Describe the different types of signal transduction pathways

5.1. There are three main types of signal transduction pathways: (1) G-protein coupled receptors (GPCRs), (2) receptor tyrosine kinases (RTKs), and (3) ion channels. Each pathway involves a different set of signaling molecules and proteins.

6. What is the purpose of a signal pathway?

6.1. Signal pathways are used to convert a signal into a cellular response. (e.g., signal transduction pathways)

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M Woodhall



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