

Lesson 12: CELLULAR COMMUNICATION, JUNCTION AND TRANSPORT

OBJECTIVES

At the end of this lesson, the students must have

- described the types of signals;
- compared internal receptors with cell-surface receptors;
- recognized the signaling pathways direct protein expression, cellular metabolism, and cell growth;
- described the characteristics of different types of cell junction; and
- explained the passive and active transport.

Cells of the body communicate by sending and receiving signals. Cells communicate through their own language of chemical signals. Different compounds, such as hormones and neurotransmitters, work like words and phrases, telling a cell about the environment around it or communicating messages. There different sources of signals which include the environment, or they may even come from other cells (neighboring cells). Signals causes cellular response, after signals are must be transmitted across the cell membrane which triggers the cell to respond to specific signals (stimulus). Sometimes the signal itself can cross the membrane or other times the signal works by interacting with receptor proteins that contact both the outside and inside of the cell. Therefore, only cells that have the right receptors on their membranes can respond to the signal.

TYPES OF SIGNALS

In multicellular organisms, cells use several types of extracellular molecules to transmit signals and communicate between each other. These means of cell signaling are group into four types as follows:

Endocrine signaling: this is the major common type of cell signaling that involves conveying a signal throughout the whole body by secreting hormones into the bloodstream (circulatory system) of animals or the sap in plants (fig 1) .The cells that produce hormones in animals are called endocrine cells. For instance, the pancreas is an endocrine gland and produces the hormone insulin, which regulates the uptake of glucose in cells all over the body. Examples of hormones that function in an endocrine manner (via ducts) include testosterone, progesterone and gonadotropins

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