



Synapses

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- Researchers from the National Center of Biological Sciences, Bangalore have shed light on the factors that drive the formation of synapses in a study conducted on Zebrafish.
- A synapse is a **structure in the nervous system in which nerve cells connect to another target neuron, cell, or gland through junctions for communication**. In this, a neuron communicates with the target neuron through electrical or chemical signals.
- The terminal part of the nerve cord of each nerve cell is branched with a synaptic knob at the end of each branch. Neurotransmitter chemicals are found in this knob. These nerve cords carry nerve impulses away from the cell body at the synapse or at the neuromuscular junction. Neurotransmitter chemicals are found in this knob. **These nerve cords carry nerve impulses away from the cell body at the synapse or at the neuromuscular junction.**
- The **transmission of nerve impulses from one neuron to another and the flow of electric current through synapses**. There are two types of synapses, electrical synapse and chemical synapse.
- The transmission of an impulse through electrical synapses is similar to the transmission of an impulse from a nerve, which **is faster than the communication through chemical synapses**. Electrical synapses are very rare in the human nervous system.



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(हिंदी एवं अंग्रेज़ी दोनों माध्यम)

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