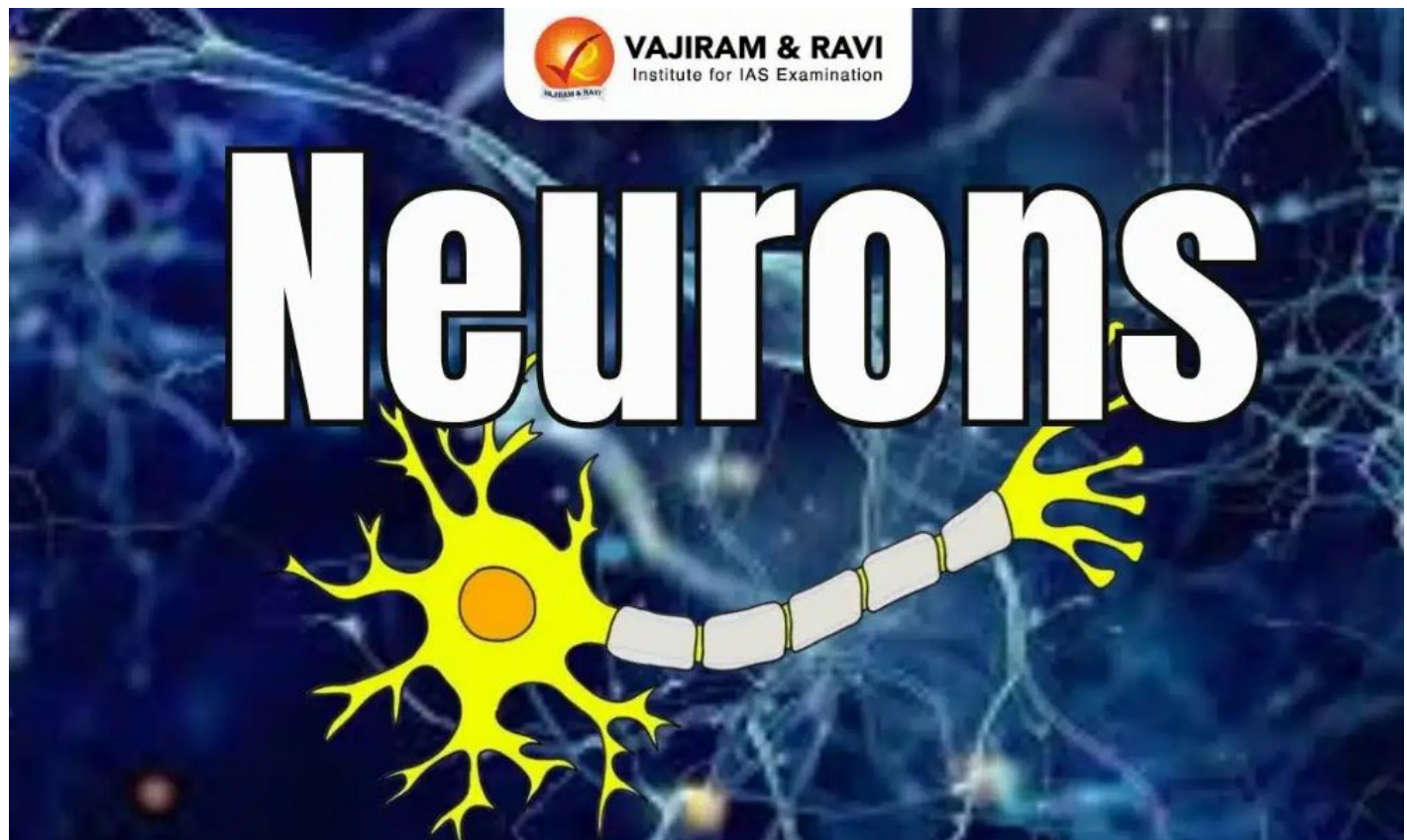


Neurons

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Neurons Latest News

A new study (2025) has identified dendritic nanotubes (DNTs) in the brains of mice and humans, a new form of neuron-to-neuron connection.

About Neurons

- **Neurons** (nerve cells) are the **fundamental units of the brain and nervous system**.
- They are responsible for:
 - Receiving **sensory input** from the environment.
 - Sending **motor commands** to muscles.
 - **Processing and transmitting** electrical and chemical signals.
- **Structure of Neuron:**
 - **Dendrites** → receive incoming signals.
 - **Cell Body (Soma)** → integrates signals.
 - **Axon** → carries impulses away from the cell body.

- **Axon Terminals** → release neurotransmitters at synapses.

Neuronal Communication

- Traditionally, neurons communicate via **synapses** where neurotransmitters cross gaps.
- **New Discovery:** Neurons may also connect via **nanotubes (DNTs)**, enabling:
 - Direct **electrical signal transfer**.
 - **Protein transport** (including amyloid-beta, linked to **Alzheimer's**).

Source: **AAAS**

Source: <https://vajiramandravi.com/current-affairs/neurons/>

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