Nervous System

All information from our environment is detected by some specialized tips of nerve cells called receptors.

They convert stimulus into electrical impulses that travel from the dendrite to the cell body and along the axon to the end.

Then, the converted chemicals cross the synapse and start a similar electrical impulse in the dendrite of the next neuron.

Types of receptors are:

Gustatory - Present in Tongue

Olfactory - Present in Nose

Thigmo - Present in Skin

Auditory - Present in Ear

Photo - Present in Eyes

Reflex Actions

Reflex actions are sudden involuntary responses which do not involve thinking.

Reflex Arc describes the pathway in which the nerve impulse is carried and generation of the response is shown by the effector organ.

Nerves from all over the body meet in a bundle in the spinal cord on their way to the brain. Reflex Arcs are formed in the **spinal cord**.

Sequence of a Reflex Arc

1. Receptors = Heat/Pain

2. Sensory Neuron

3. Spinal Cord (Central Nervous System)

4. Message to Brain

5. Relay neuron

6. Motor Neuron

7. Effector Organ

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