UNIT-1 RECEPTORS

Receptors are sensory (afferent) nerve endings that terminate in periphery as bare **unmyelinated endings** or in the form of specialized **capsulated structures**.

Receptors give response to the stimulus. When stimulated, receptors produce a series of impulses, which are transmitted through the afferent nerves.

Classification of receptors

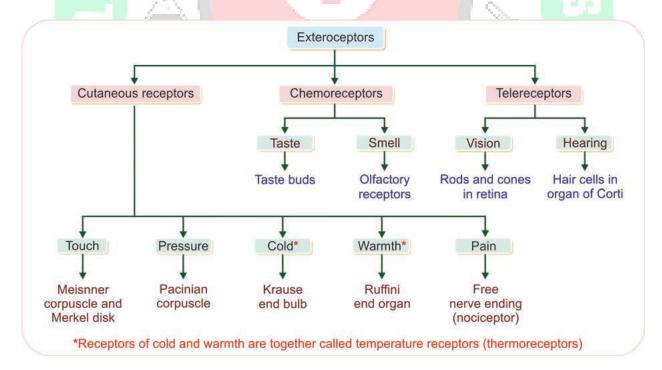
Generally, receptors are classified into two types:

A. Exteroceptors

B. Interoceptors

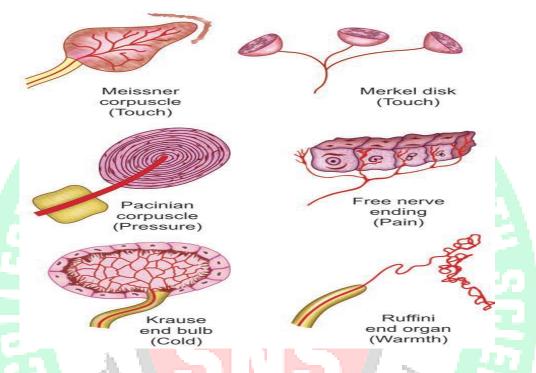
Exteroceptors

Exteroceptors are the receptors, which give response to stimuli arising from outside the body.



Cutaneous Receptors or Mechanoreceptors

Receptors situated in the skin are called the cutaneous receptors. Cutaneous receptors are also called mechanoreceptors because of their response to **mechanical stimuli** such as touch, pressure and pain. Touch and pressure receptors give response to **vibration** also.



2. Chemoreceptors

Receptors, which give response to **chemical stimuli**, are called the chemoreceptors.

3. Telereceptors

Telereceptors are the receptors that give response to stimuli arising **away from the body.** These receptors are also called the **distance receptors.**

Interoceptors

Interoceptors are the receptors, which give response to stimuli arising from within the body.

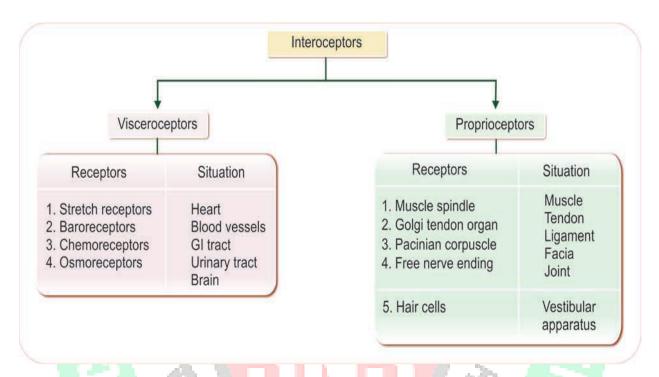
Visceroceptors

Receptors situated in the viscera are

called visceroceptors.

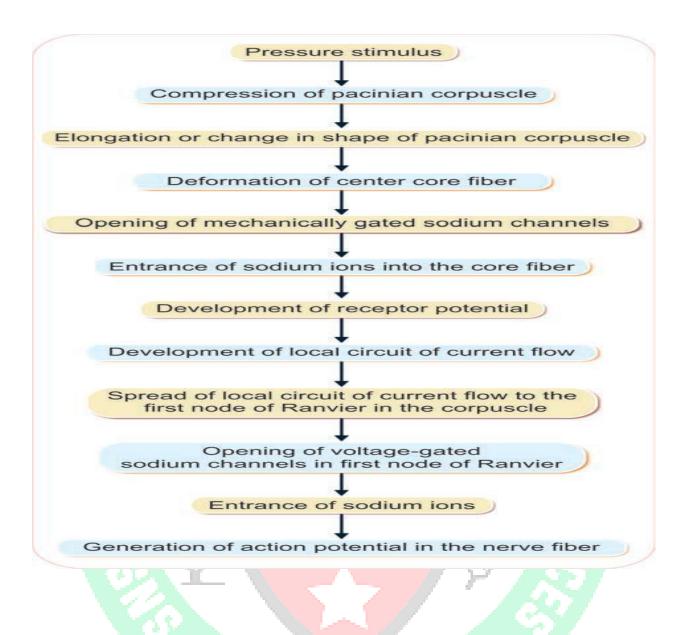
Proprioceptors

Proprioceptors are the receptors, which give response to **change in the position** of different parts of the body.



Properties of receptors

- Specificity of response Müller law
- Adaptation sensory adaptation
- Response to increase in strength of stimulus Weberfechner law
- Sensory transduction
- Receptor potential
- Law of projection



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