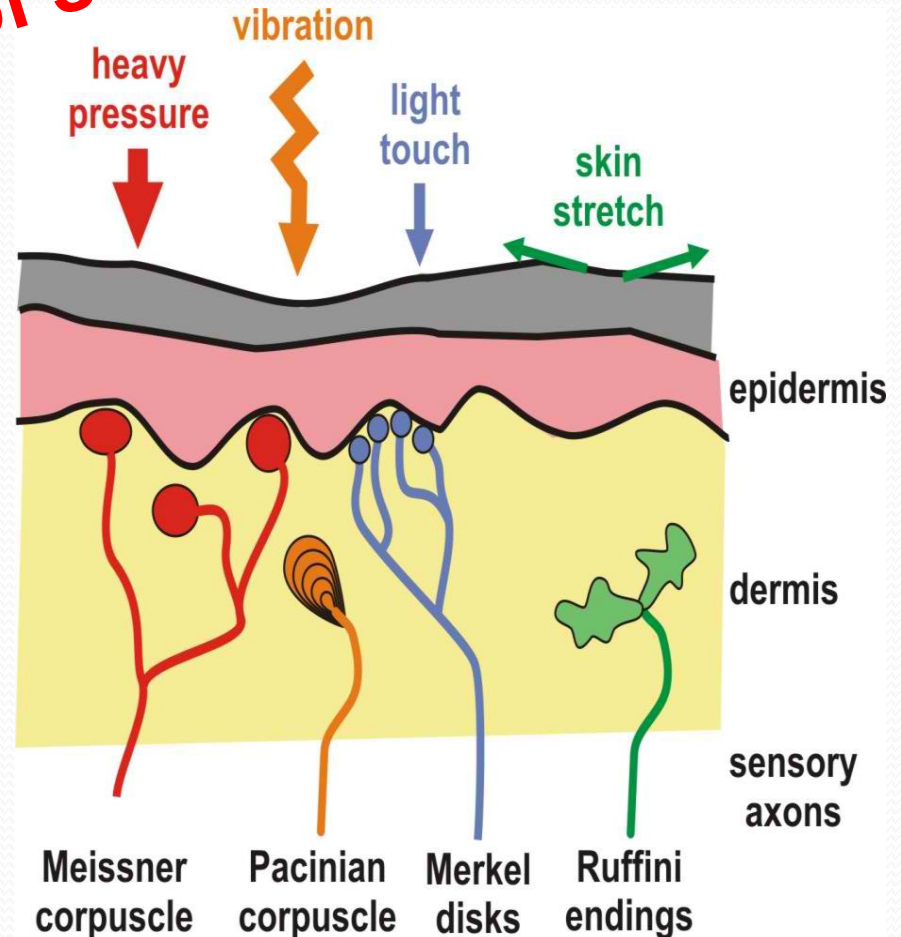


Mechanoreceptors

- Pacinian corpuscle
 - deep, pressure sensitive, fast adapting, large receptive field
- Meissner's corpuscle
 - superficial, sensitive to touch, small receptive field



Classification of receptors

- Mechanoreceptors
 - Cutaneous (touch, pressure, vibration) e.g.. Pacinian, Meissner's corpuscle, free nerve endings
 - Proprioceptors (joint position receptors) e.g.. Muscle stretch receptors, tendon organs
 - Baroreceptors
 - Auditory/vestibular hair cells
- Chemoreceptors
 - Taste buds and smell receptors
 - Visceral chemoreceptors sensitive to P_{CO_2} , pH, osmolality etc.
- Thermoreceptors
 - Cold and hot receptors
- Nociceptors (pain receptors)
- Other receptors: Visual (rods and cones): electromagnetic

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Taste Buds/ Gustatory buds
– Sensory structures that detect taste stimuli

Each taste cells contain hairlike processes called taste hairs that extend into tiny opening called taste pore.

Balance/Equilibrium

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Equilibrium and Balance

- **Equilibrium** sense “responds” to various movements of head
- Equilibrium receptors of inner ear (often called **vestibular apparatus**) can be divided into two functional parts
- One is responsible for monitoring static equilibrium (report on position of head with respect to gravity when body is not moving)
- The other monitors dynamic equilibrium (respond to angular or rotatory movements of head rather than to straight-line movements)

