






TOPIC: SENSORY RECEPTOR CLASSIFICATION BY MODALITY

- Sensory receptors can be classified by the type of stimulus they detect (modality). There are _____ types:

Stimulus Type	Function
1. Mechanoreceptors 	Respond to _____ force.
2. _____ receptors 	Respond to temperature changes.
3. Photoreceptors 	Respond to _____.
4. _____ receptors 	Respond to chemicals (in the air or fluids in body).
5. Nociceptors 	Respond to damaging stimuli, causing _____.

EXAMPLE: If a receptor is “rapidly adapting”, it will respond maximally to a stimulus when it is first detected, and then the response will decrease if the stimulus is maintained. Which type of receptor is *least* likely to be rapidly adapting?

- a) Mechanoreceptors.
- b) Photoreceptors.
- c) Nociceptors.
- d) Thermoreceptors.

PRACTICE: Which receptor type would you expect to find on the tongue, allowing us to taste?

- a) Thermoreceptors.
- b) Nociceptors.
- c) Mechanoreceptors.
- d) Chemoreceptors.