

# Sensory System

## General

### Touch

#### Sensors

##### Meissner

fine touch - no hair

##### Merkel's

fine touch - where extra needed

##### Hair root plexus

gross touch

mechano-receptors

### Pressure

#### Pacinian

mechano-receptors

### Position

Muscle spindle fiber

golgitendon organ

proprio receptors

### Temperature

#### Cold

##### Kraus

cryo receptors

#### Hot

##### Ruffini

thermo receptors

### Pain

Free nerve endings

noci receptors

### Stretch

#### Ruffini

### Vibration

#### Hi Freq

Pacinian

#### Low Freq

Meissner

## Special

### Olfaction

smell

free nerve endings

### Gustation

sense of taste

taste buds

### Vestibular

equilibrium

utricle

saccule

semicircular canals

### Audition

hearing

organ of corti

outer ear

Auricle/Pinna

Meatus (canal)

- Tympanic Membrane (ear drum)
- middle ear
  - ossicles
    - incus
    - malleus
    - stapes
  - connects ear drum to oval window across eustachian tube
- inner ear
  - Cochlea
    - pitch - location of stimulation in
    - volume - number of hairs stimulated in

## Vision

- sight

- cornea

- major lens at entrance

- sclera - whites

- Iris

- Pupil

- lens

- adjusted by zonules attached to ciliary body

- Retina

- photoreceptors

- cones

- color

- rods

- light and dark

- Optic Nerve