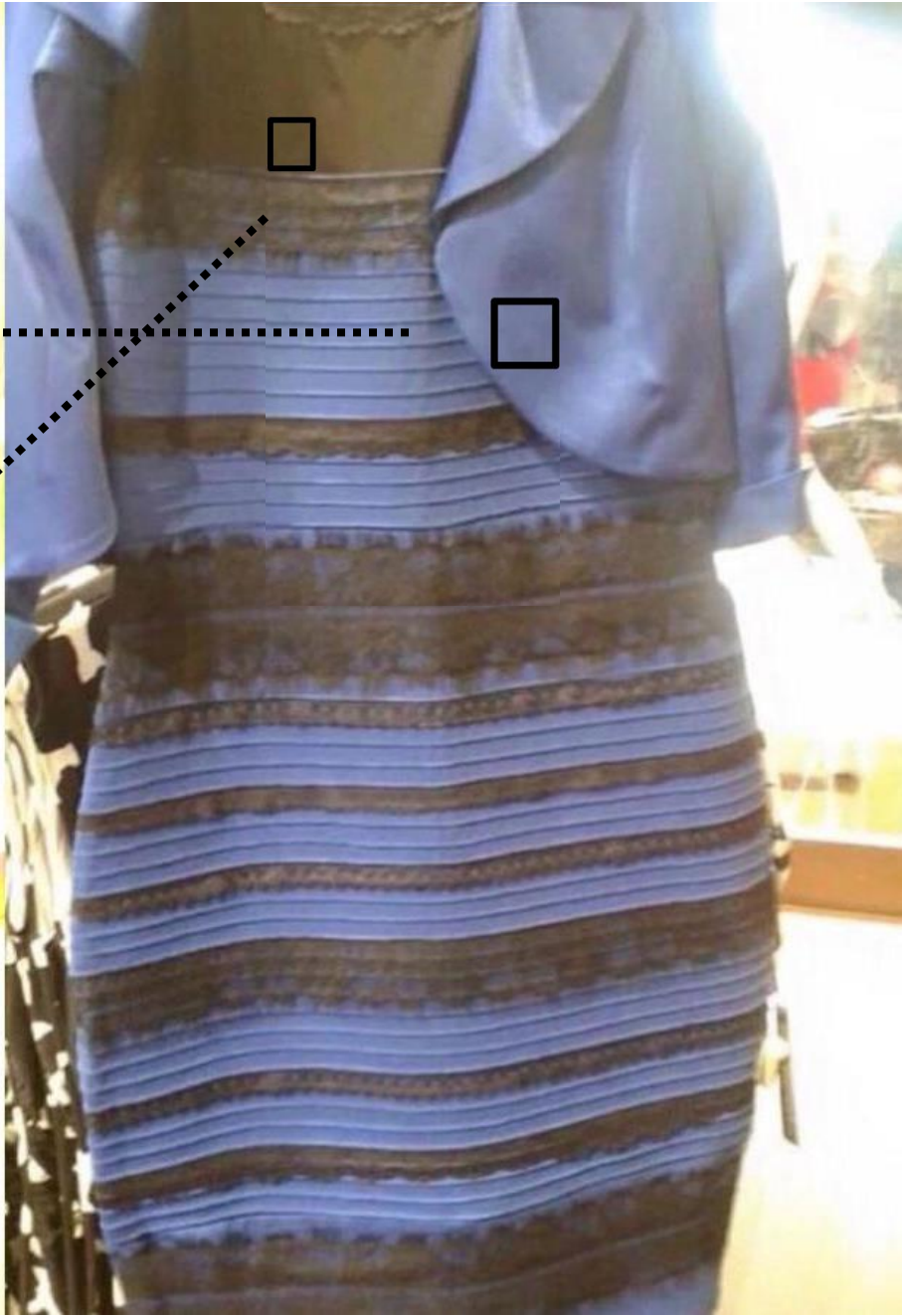
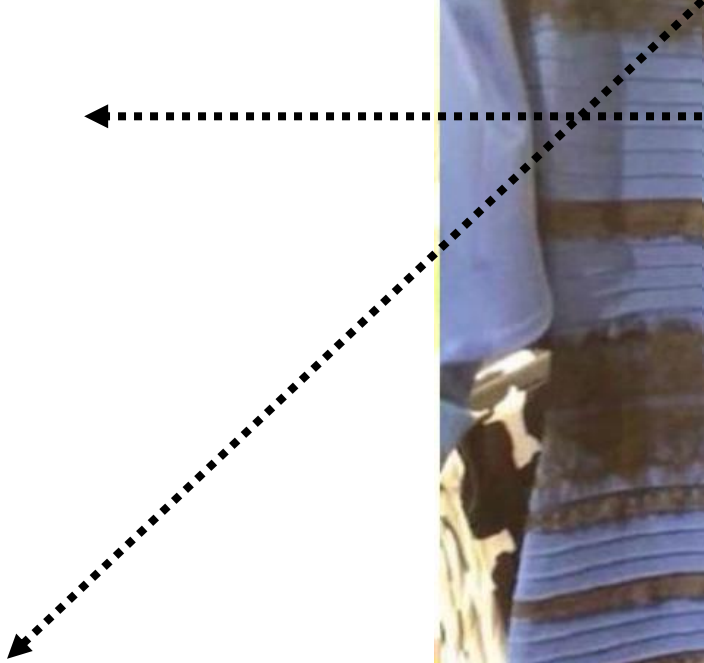
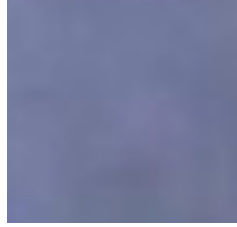


SENSATION & PERCEPTION

PSY 101 General Psychology

Instructor: Aimee Kim

Drexel University



What is sensation?

Sensory input from a stimulus

What is perception?

Sensory input organized and interpreted by the brain

Sensory stimulus



Transduction

Sensory receptors

→ Transformed into neural impulses

→ Reaches brain

→ Processed

→ Recognition

unconscious

conscious

Senses we have (according to sensory experiences):

Vision

Hearing

Touch

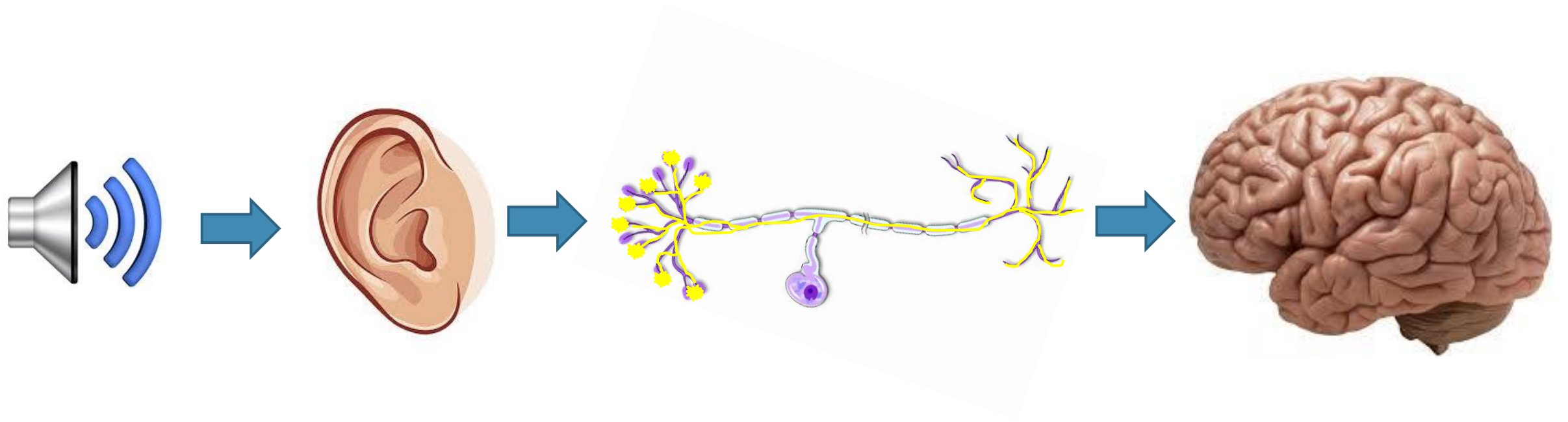
Taste

Smell

Kinesthesia

Vestibular

Auditory sense

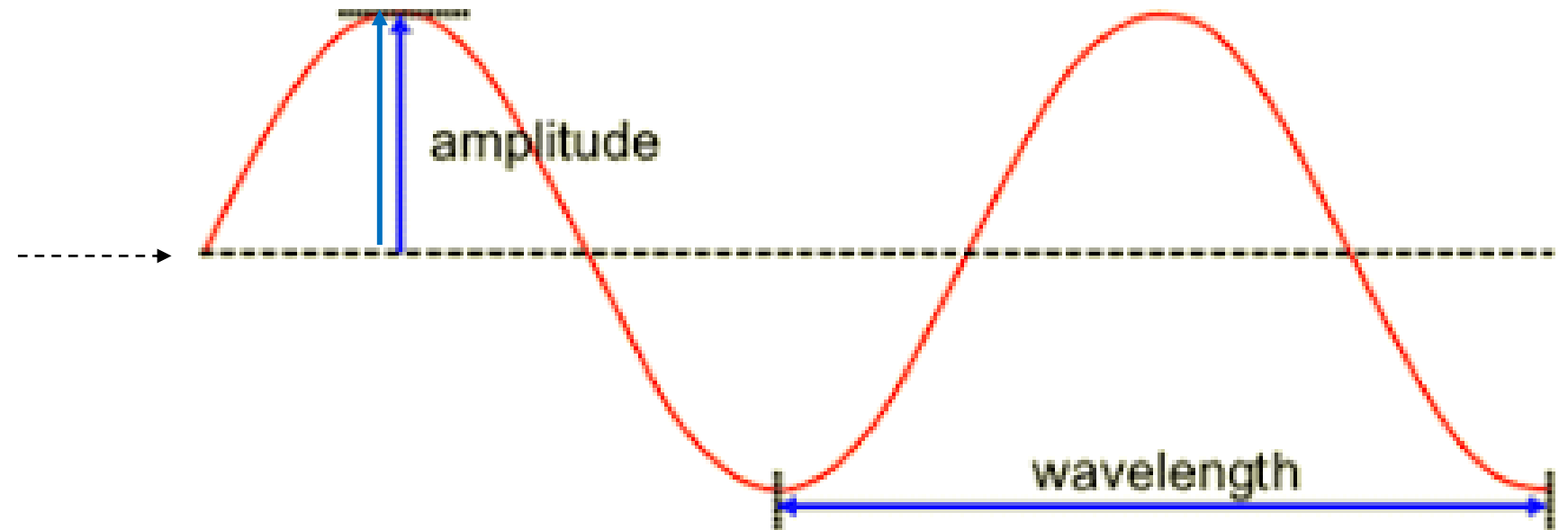


Sound wave

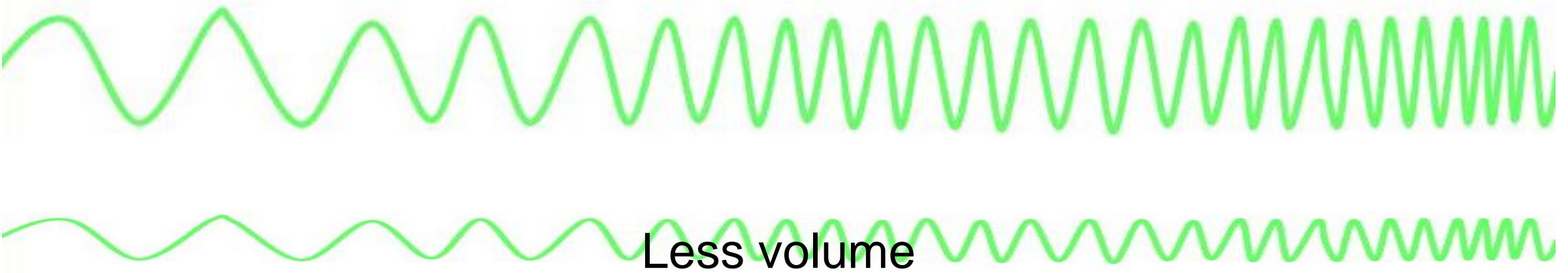
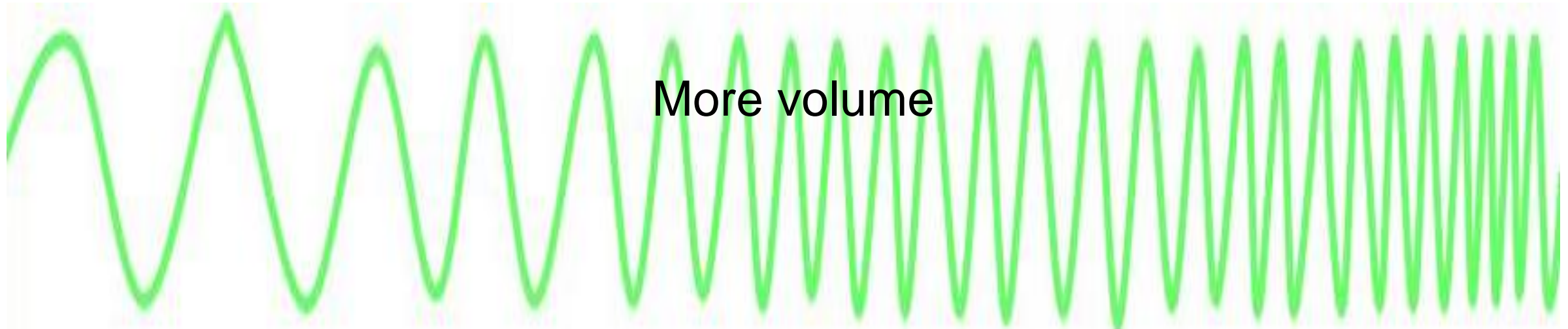
Pattern of disturbance traveling through a medium (e.g., air, water, solid matter, etc).

Described by:

1. Amplitude



Loudness

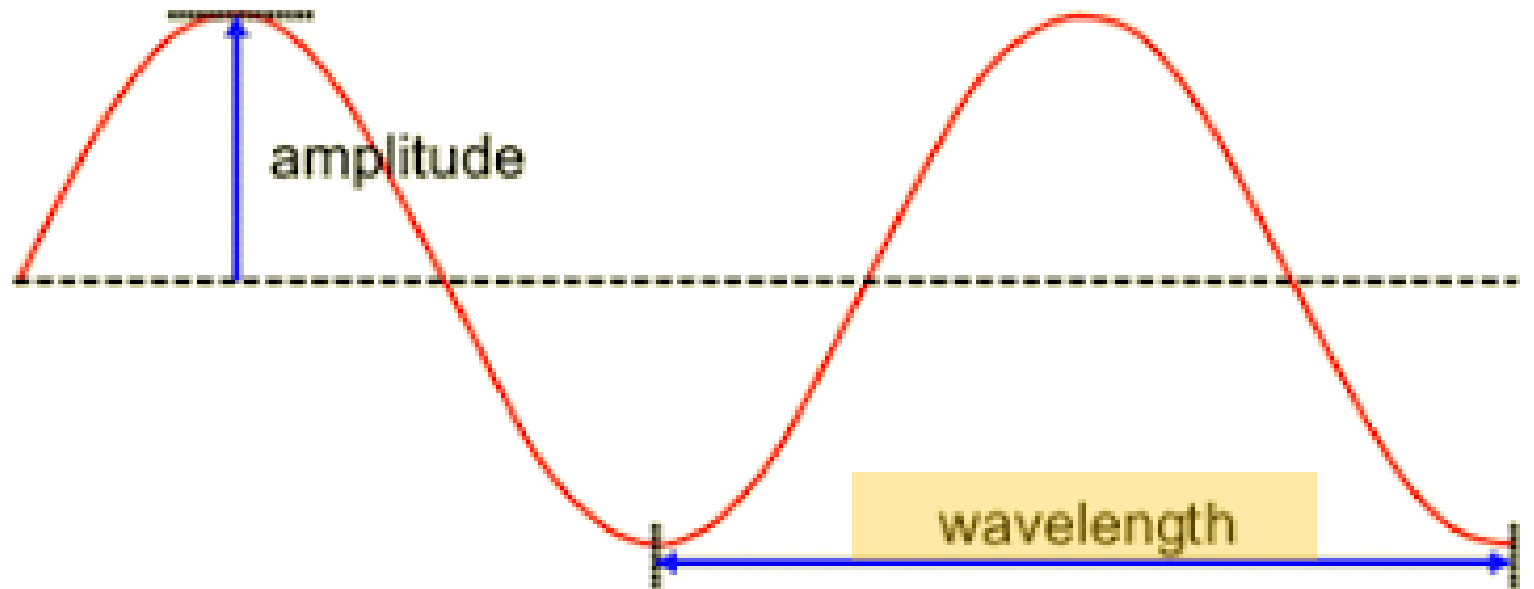


Sound wave

Pattern of disturbance traveling through a medium (e.g., air, water, solid matter, etc).

Described by:

1. Amplitude
2. Frequency



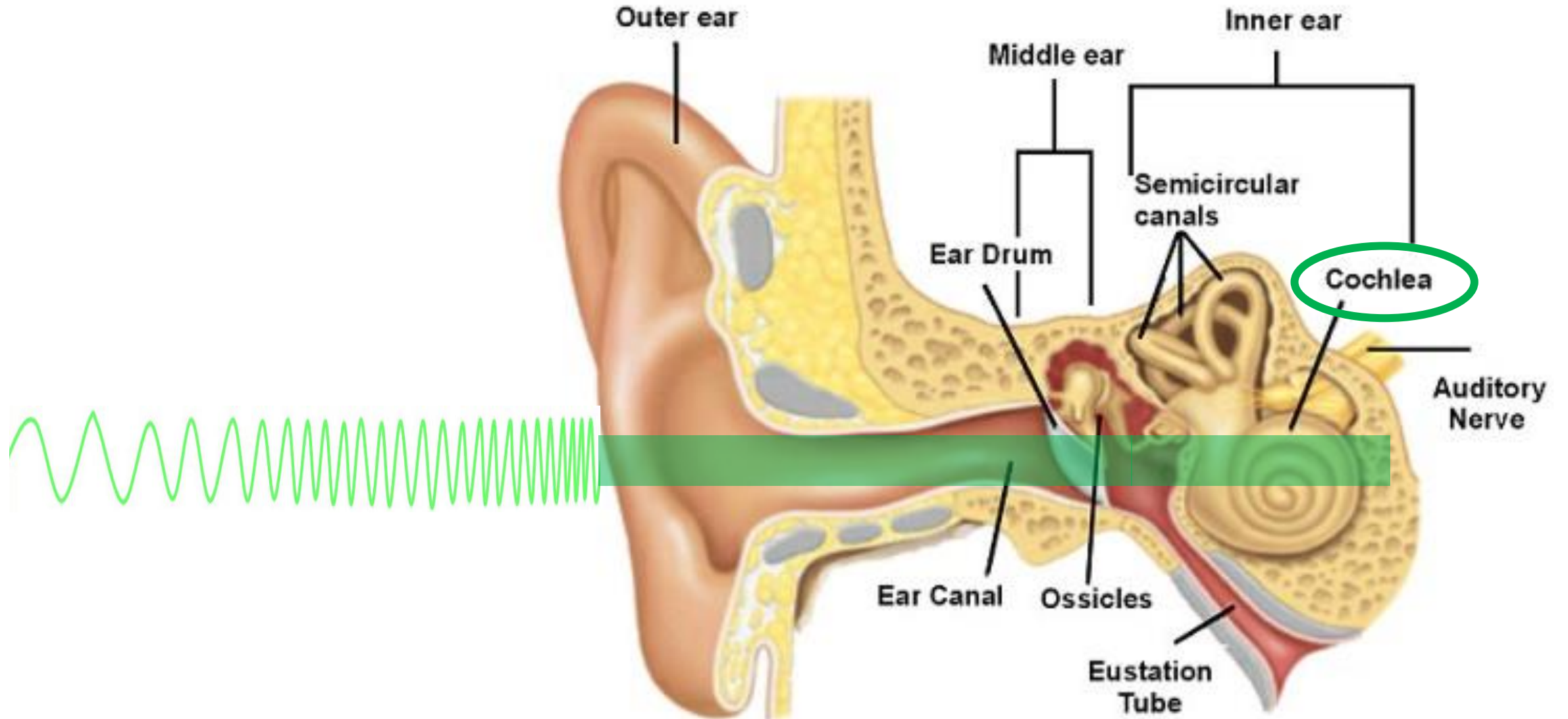
Pitch

Low pitch

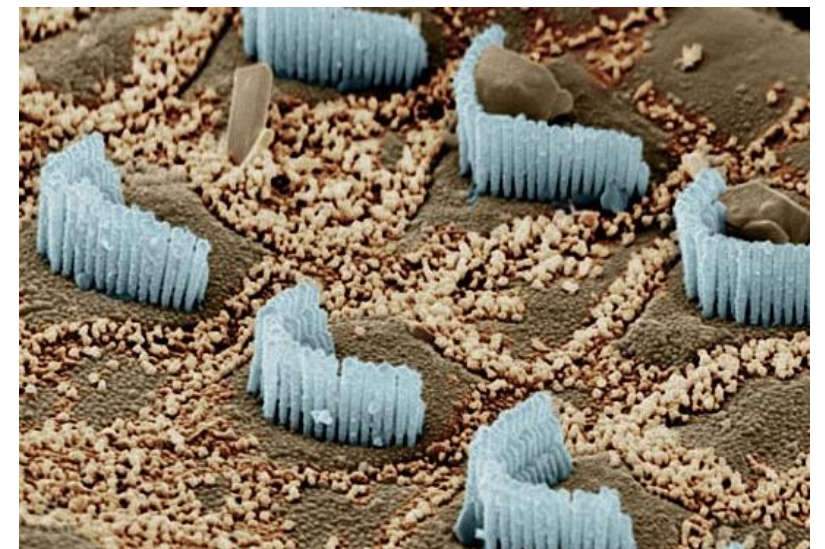
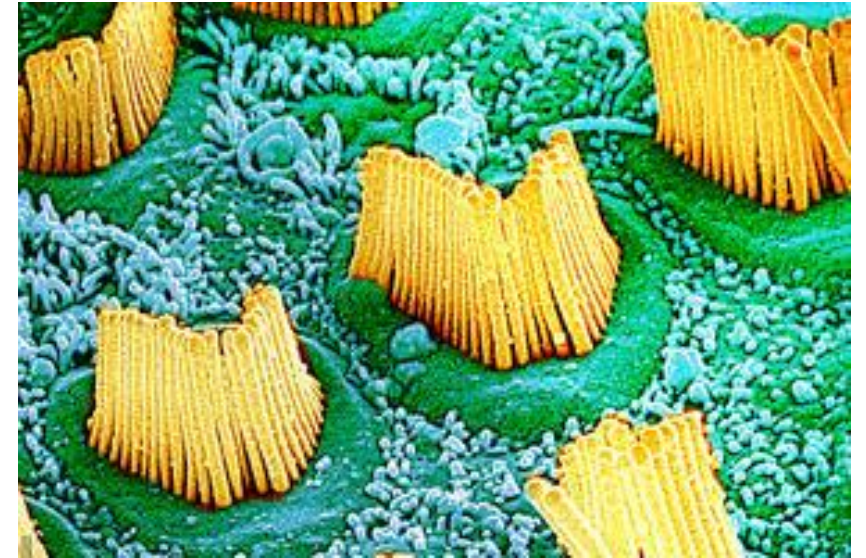
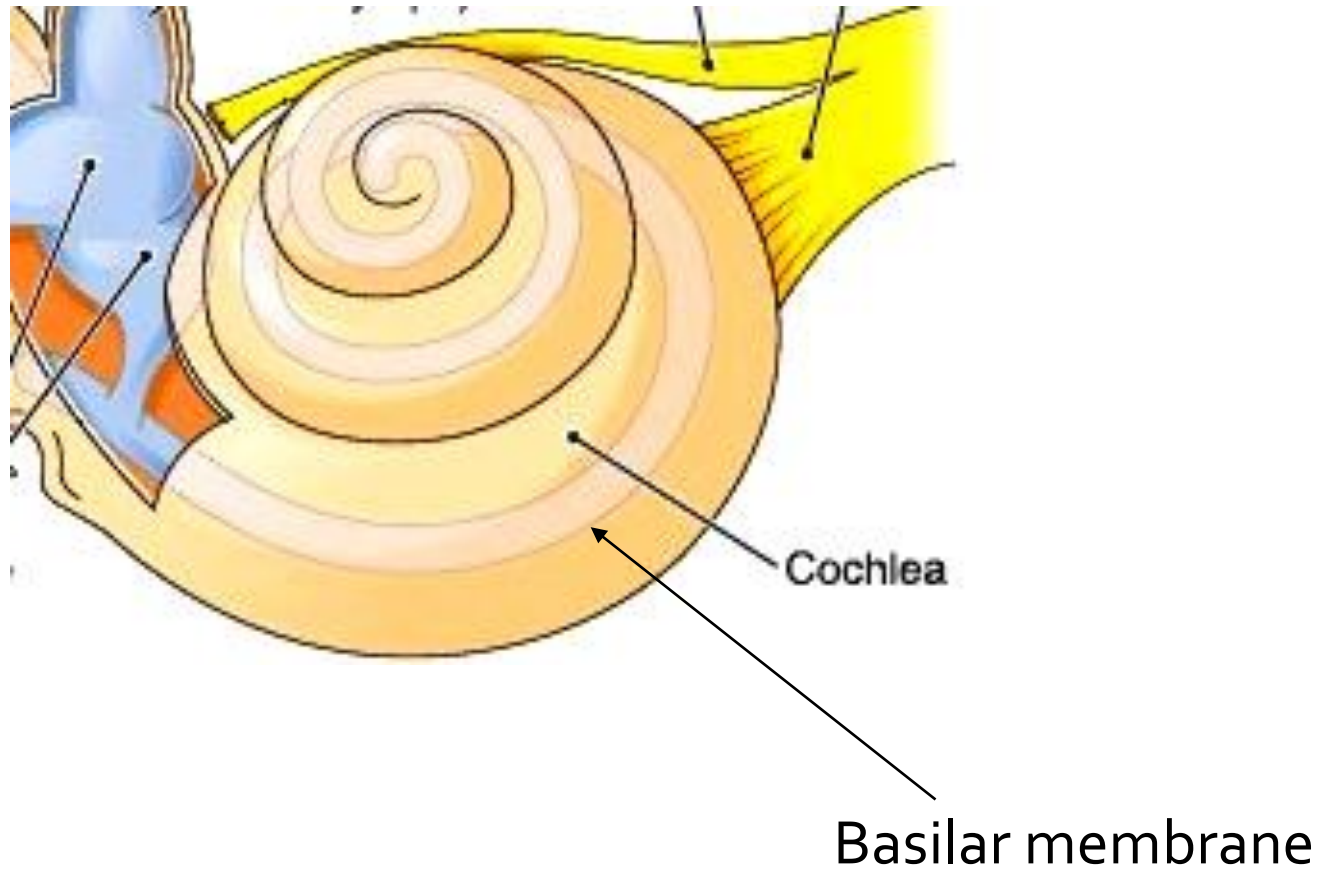
High pitch



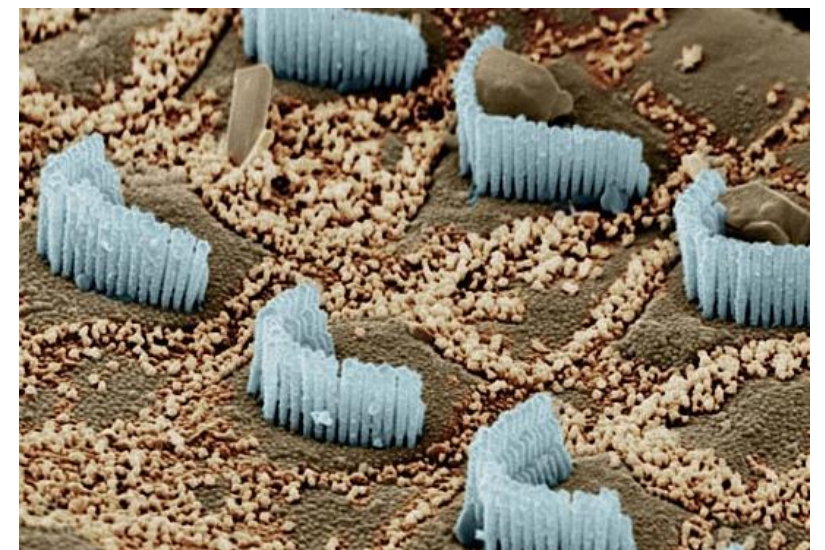
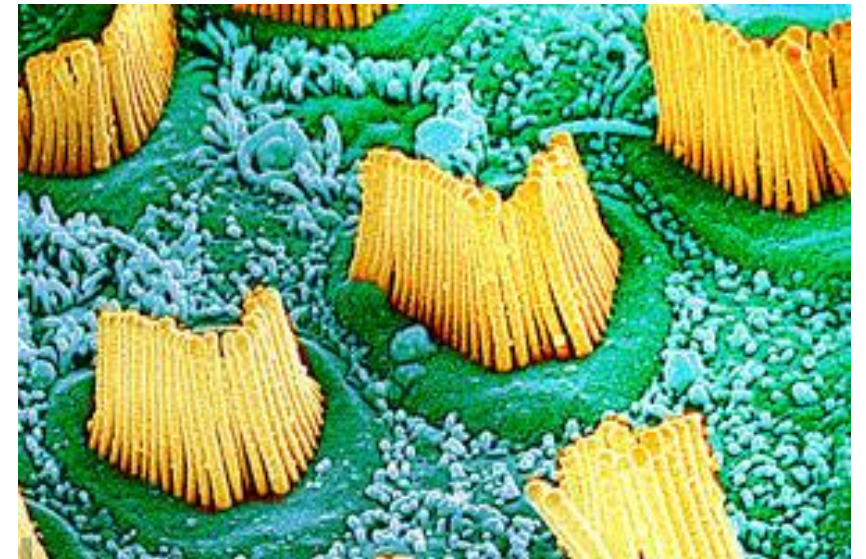
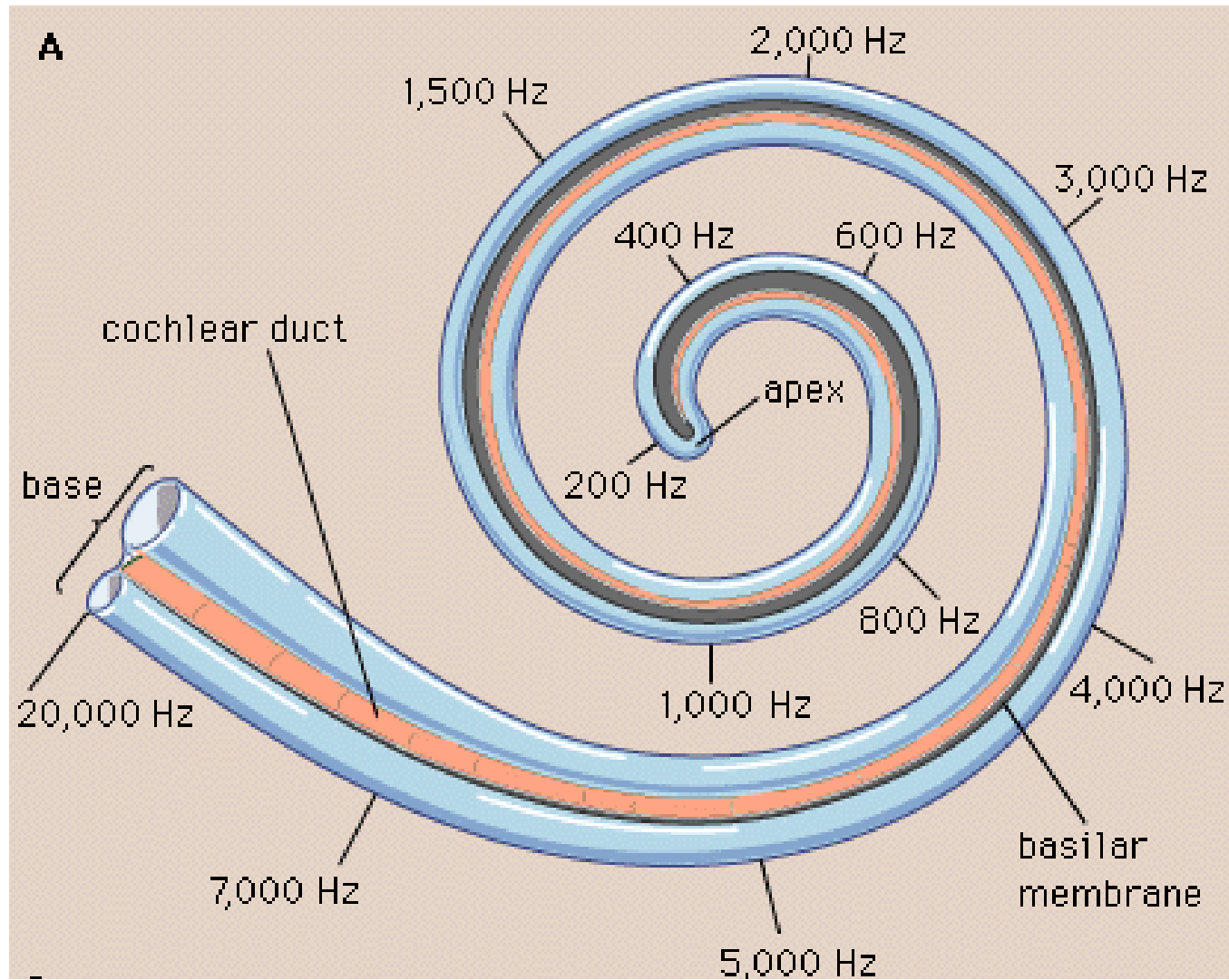
Auditory receptors



Auditory receptors

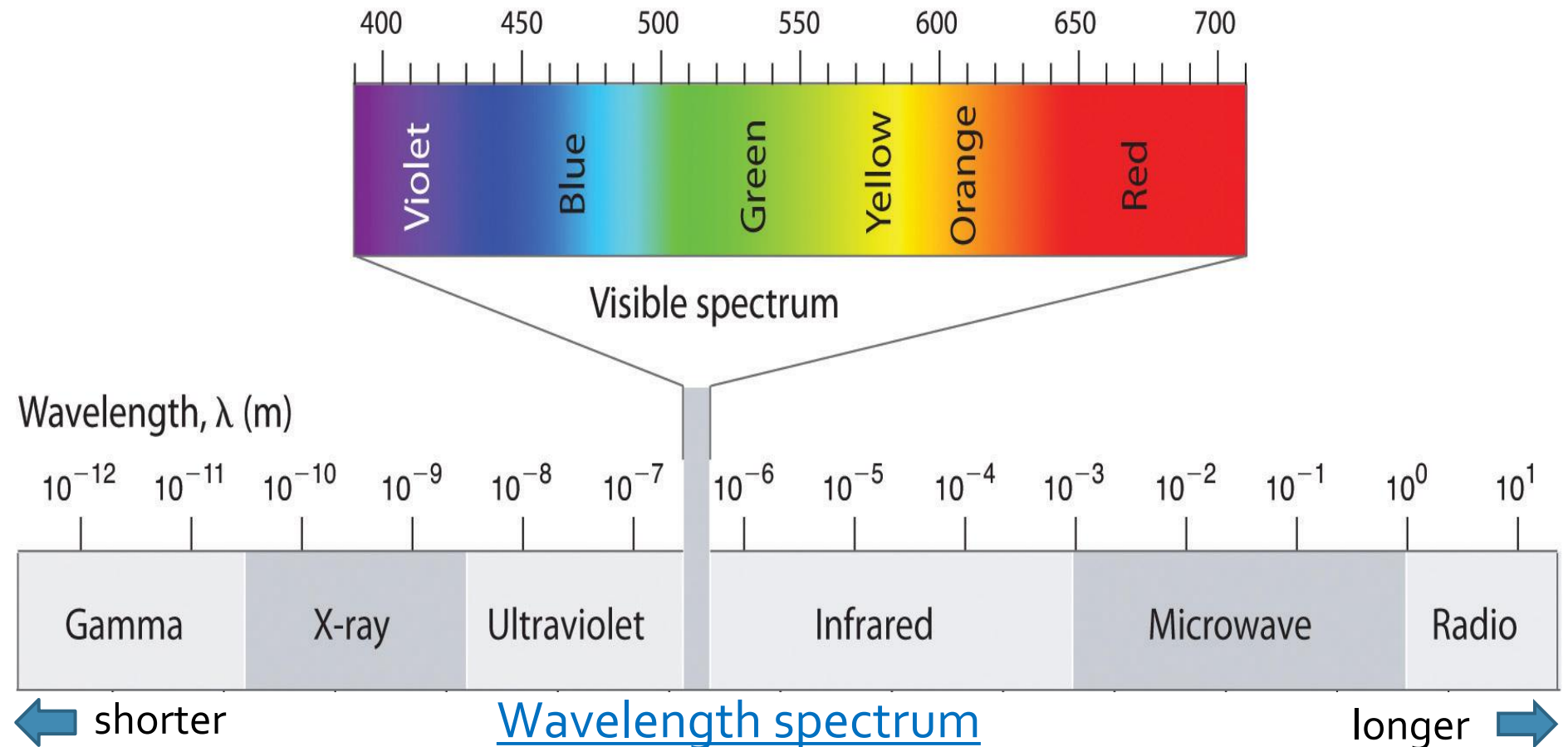
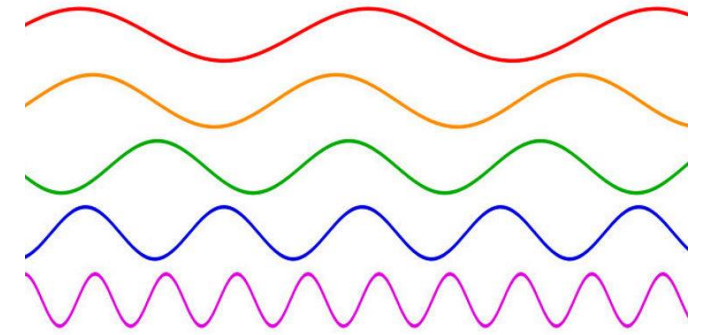


Auditory receptors



Vision

Electromagnetic radiation



Vision

Rattlesnake's infrared vision



Vision

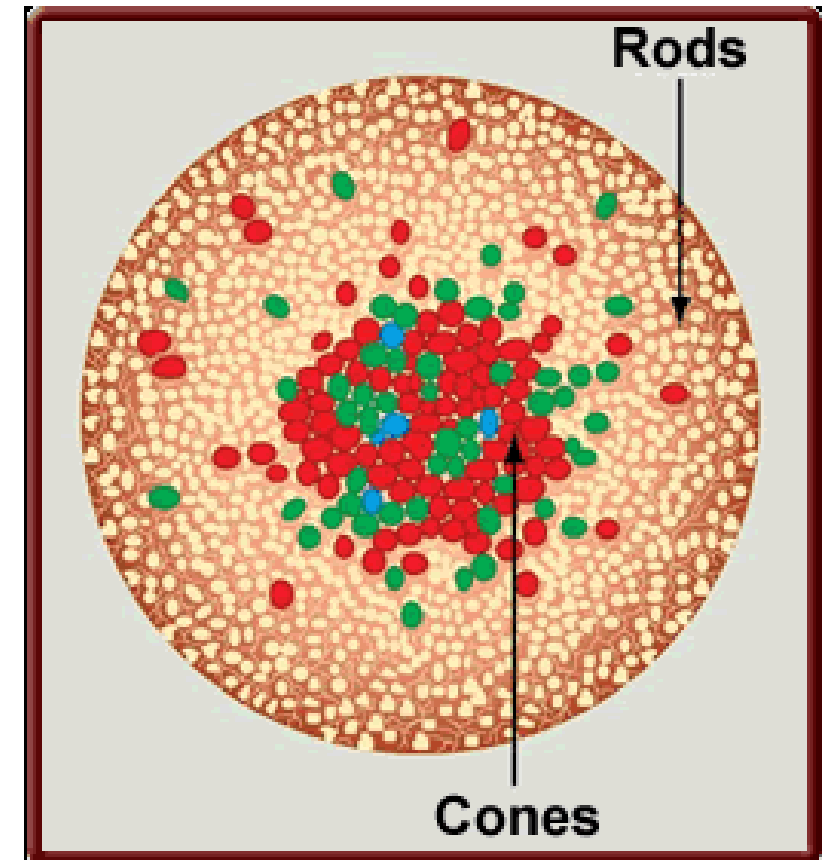
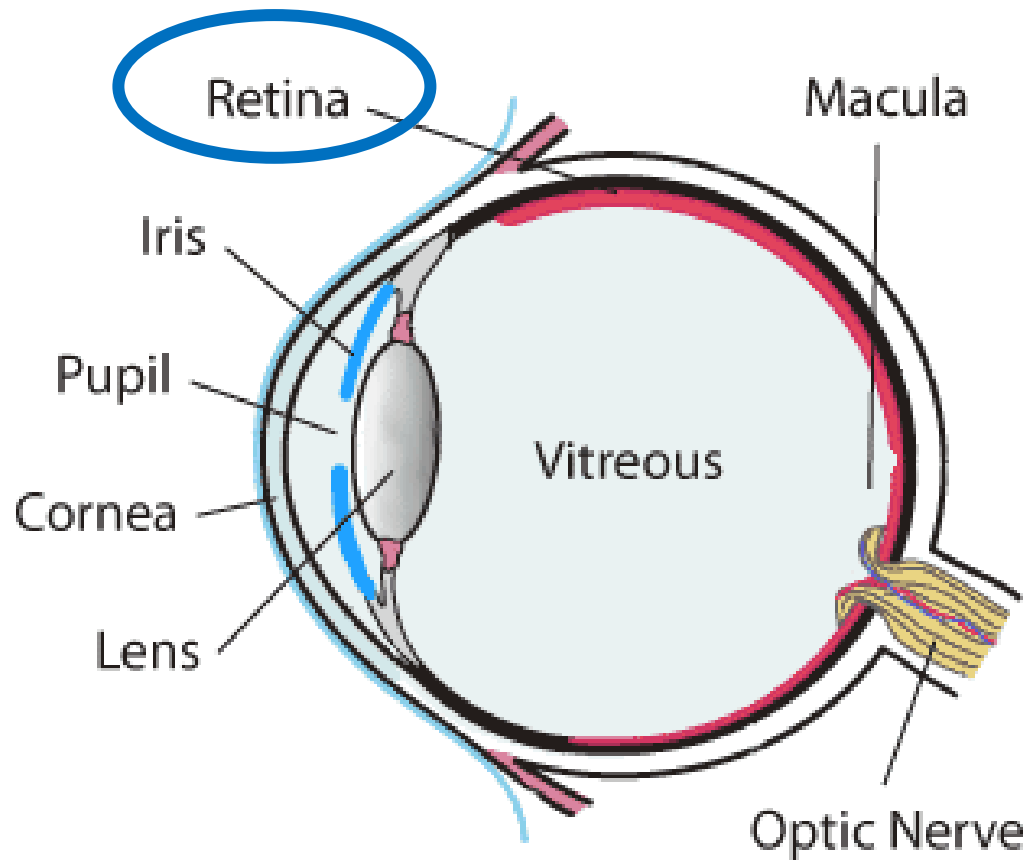
Cones

Colors and details

Rods

Greyscale

Brightness scale



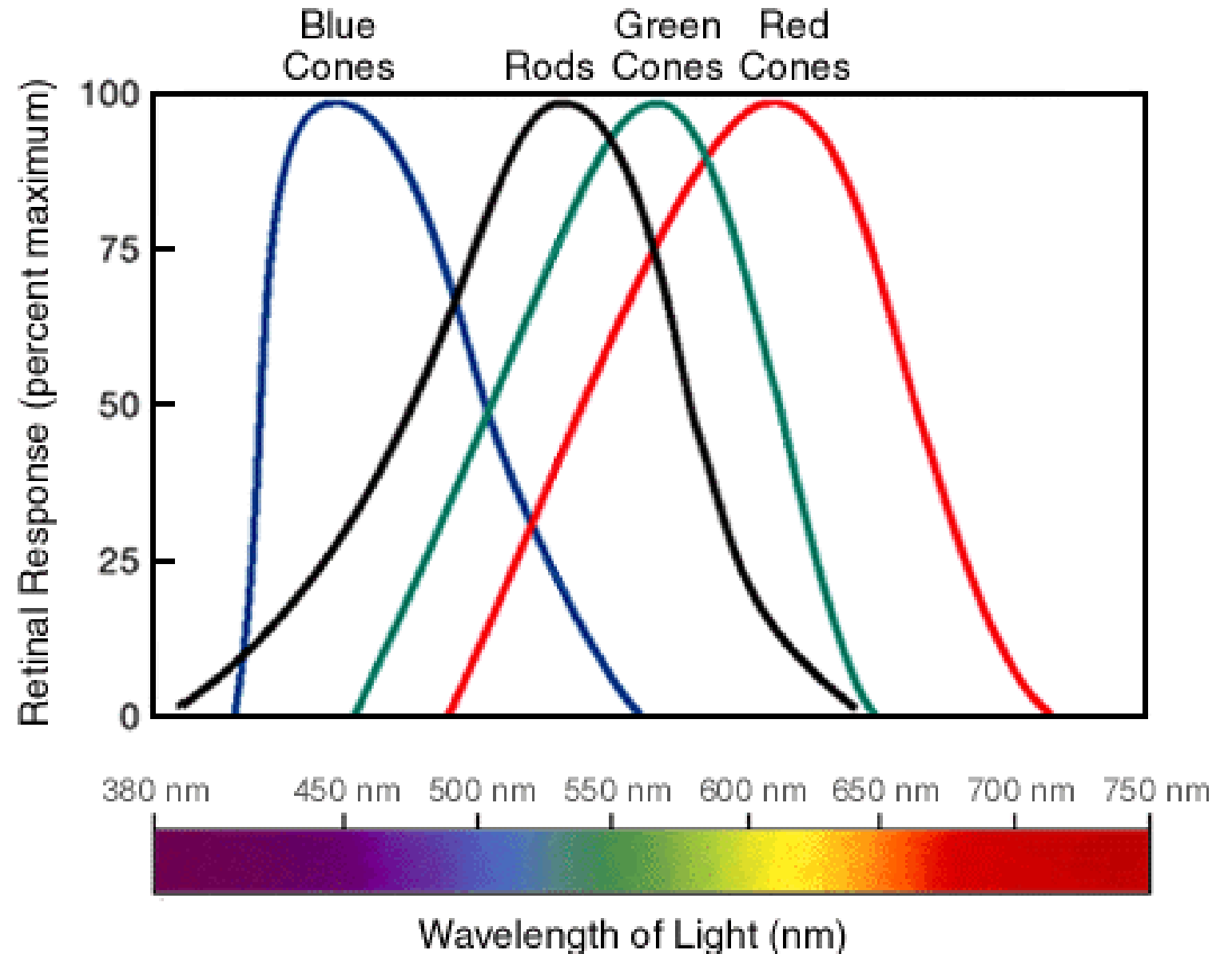
Vision

Young-Helmholtz
trichromatic theory

Short WL - blue cones

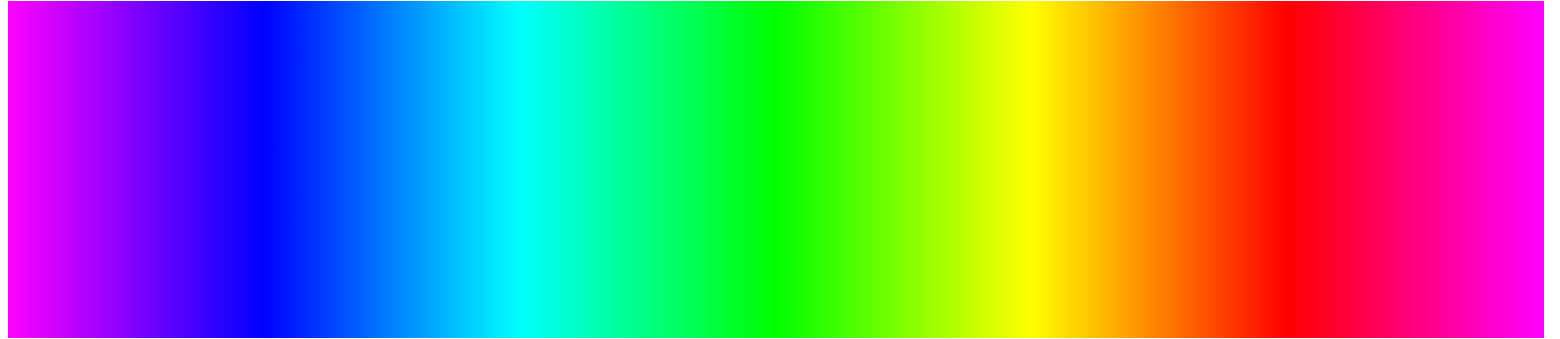
Medium WL - green cones

Long WL - red cones



Vision

Human's visible color spectrum



Dog's visible color spectrum



Vision

Human's view



Dog's view



Vision



Normal vision



Protanope
(defective red cone cells)



Deuteranope
(defective green cone cells)



Tritanope
(defective blue cone cells)

