Human: *Homo sapiens*

Sensory systems:

- Sight
- Hearing
- Taste
- Smell
- Touch
- Complex receptor network

Response System

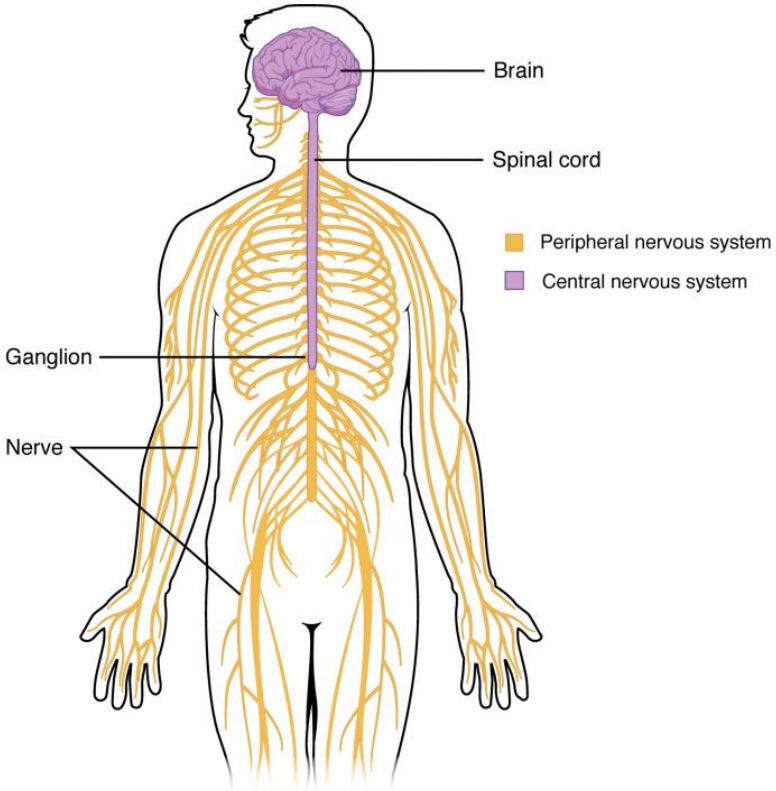
- Reflexive (pulling hand away from hot stove)
- Voluntary actions

Memory Ability:

- Advanced
- Short term and long term memory through hippocampus and cortex

Fun Fact

- Can distinguish over 1 trillion different odors



Aplysia *Aplysia californica*

Sensory systems:

- 20,000 neurons
- Senses touch
- Senses chemicals in water

Response System

- Reflexive (Gill withdrawal
- Sensitization
- Habituation

Memory Ability:

- Simple
- Learns through synaptic strength changes

Fun Fact

- Used to study cellular mechanisms of memory formation



Pit Viper *Crotalus spp.*

Sensory systems:

- Infrared pit organs
- Normal vision

Response System

- Reflexive (quick strike)
- Learned behavior (hunting behavior)

Memory Ability:

- Moderate- learns from repeated hunting

Fun Fact

- Can detect heat differences as small as 0.003℃
- Pit Vipers Include organisms like copperheads and rattlesnakes

