**Brain (CNS)**

Complex integration of afferent and efferent pathways

**Spinal Cord (CNS)**

Cell bodies of sensory neurons are in the dorsal root ganglia of the spinal cord.

Interneurons integrate afferent and efferent neurons in the spinal cord

**Peripheral Nervous System (PNS)**

Autonomic Pathway (Parasympathetic)

Effernt (from CNS)

**Efferent (Motor) Pathways: Impulses Travel from CNS.**

Somatic Pathway

(Efferent – from CNS)

Autonomic Pathway (Sympathetic)

(Efferent – from CNS)

**Afferent (Sensory) Pathway: Impulses travel to CNS**

**Heart, Involuntary Muscles, Glands**

nEpi

ACh

**Stimulus of sensory neurons:**

* Somatic – from skin and muscle
* Visceral – from internal organs
* Sense organs – eyes, ears, tongue etc.

ACh

**Skeletal Muscle contraction**

