



NOTES ANATOMY & PHYSIOLOGY

NERVOUS SYSTEM ANATOMY & PHYSIOLOGY

THE NERVOUS SYSTEM

- Network of brain, spinal cords, nerves
- Sensory/afferent, integrative, motor/efferent functions

Sensory/afferent

- Receptors monitor external, internal environment
 - Conscious stimuli (e.g. vision, hearing, touch)
 - Unconscious stimuli (e.g. pH, blood pressure)

Integrative

- Sensory/afferent input received by central nervous system → information processed → interpreted → response initiated

Motor/efferent

- Brings motor information from central nervous system to periphery
- Controls actions of effector organs (e.g. muscles, glands)

ORGANIZATION OF THE NERVOUS SYSTEM

Central nervous system (CNS)

- Brain, spinal cord

Peripheral nervous system (PNS)

- Nerves connect PNS with CNS
- Includes 12 pairs of cranial nerves, 31 pairs of spinal nerves
- Efferent (motor), afferent (sensory) divisions

- Efferent divided into somatic (voluntary), autonomic (involuntary) nervous systems
- Autonomic nervous system comprised of sympathetic, parasympathetic nervous systems
- Sensory receptors: structure at nerve ending; detects physical, environmental stimulus; e.g. pain, temperature
- Ganglia/ganglion (plural/singular): collection of neuron cell bodies outside CNS
- Plexuses/plexus (plural/singular): network of nerves outside CNS

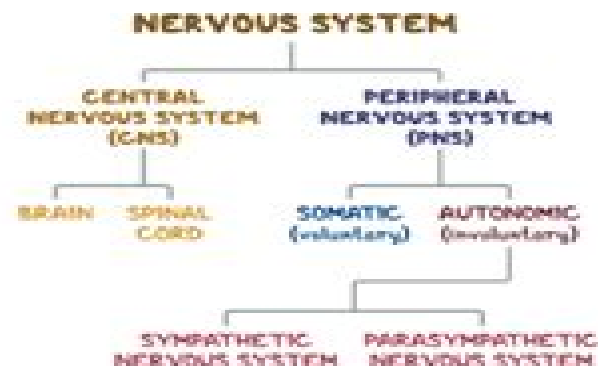


Figure S0.1 Organization of the nervous system.

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JA Banks



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