Republic of Iraq Ministry of Higher Education and Scientific Research Al-Zahraa University for Women College of Pharmacy



Human Anatomy second semester/ Lab.4

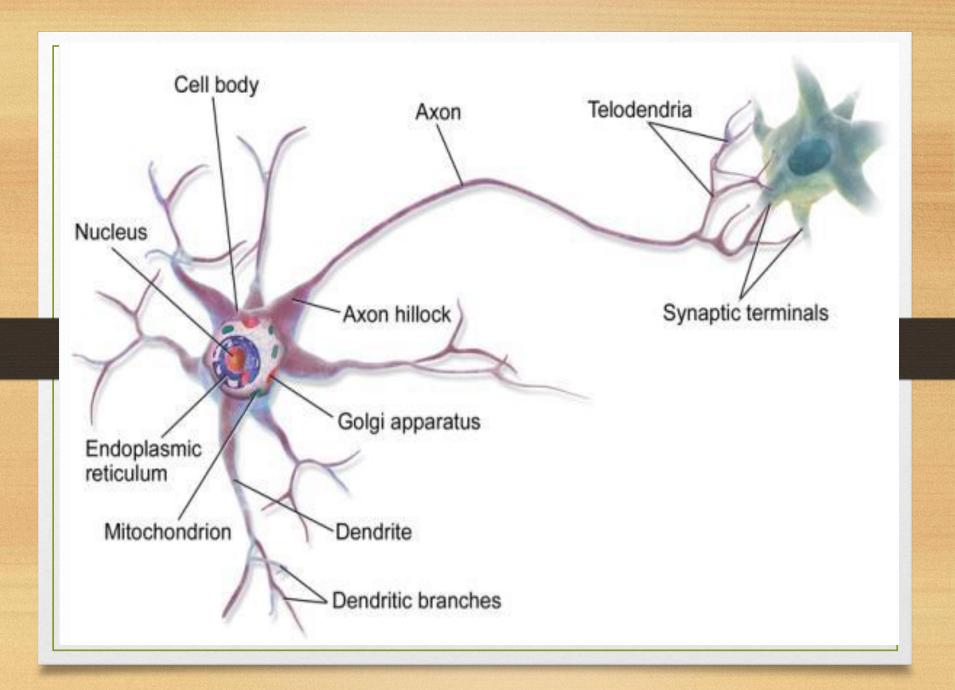
The Nervous System

By:

Asst. Lec. Nabaa Faiz Abbas

What is the nervous system?

- an organized group of cells called neurons
- it controls your movements, thoughts and automatic responses to the world around you.
- It also controls other body systems and processes, such as digestion, breathing and sexual development (puberty).

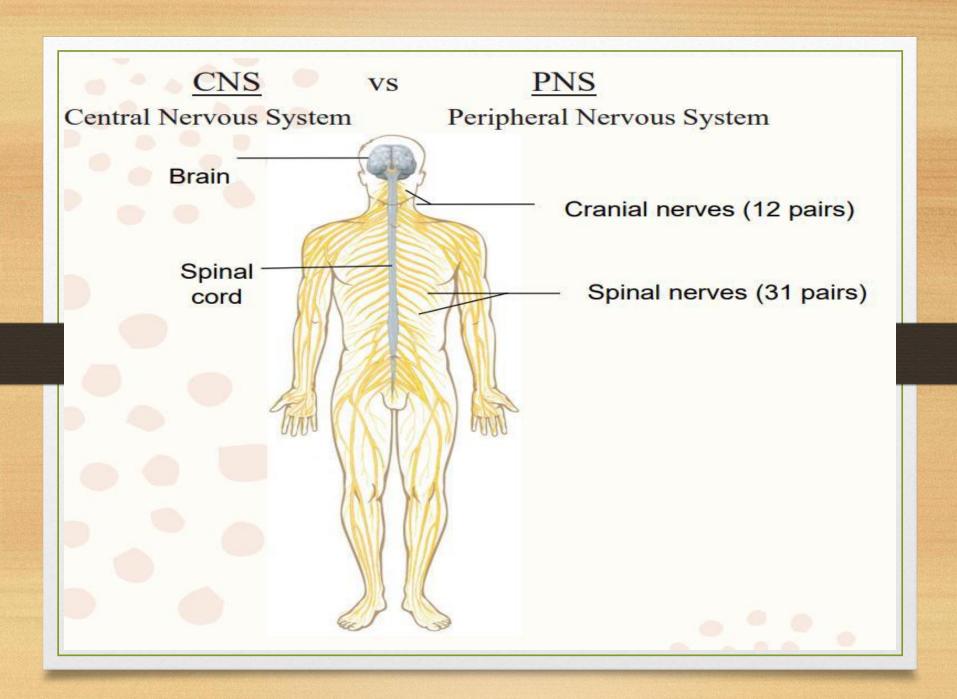


Functions of the Nervous System

- Maintain homeostasis with electrical signals
- •-Provide for sensation -Provide for higher mental functions and emotions
- -Activate muscles and glands

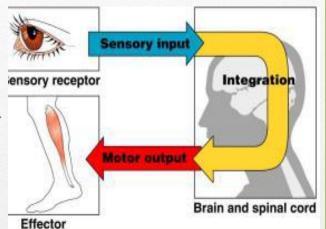
Divisions of the Nervous System

- 1- Central Nervous System CNS
- •Brain
- •Spinal Cord
- 2- Peripheral Nervous System PNS
- •Cranial Nerves
- •Spinal Nerves
- •Ganglia
- Sensory Receptors

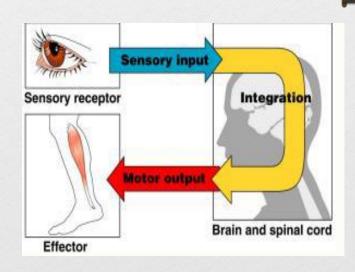


Functional Classification of the Peripheral Nervous System

•Sensory (afferent) division: nerve fibers that carry information to the central nervous system

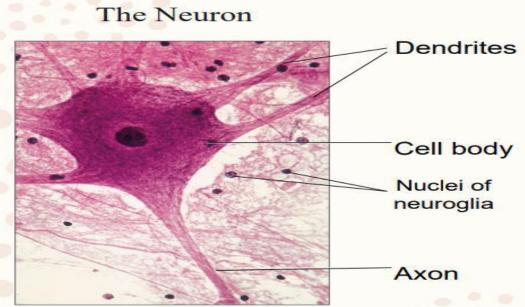


•Motor (efferent) division: nerve fibers that carry impulses away from the central nervous system



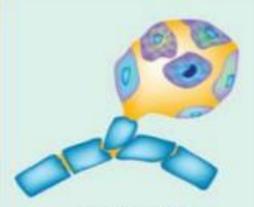
Cells of Neural Tissue

- •Neurons: are responsible for sensing change in their environment and communicating with other neurons via electrochemical signals.
- •Glial cells: work to support, nourish, insulate neurons and remove the waste products of metabolism.

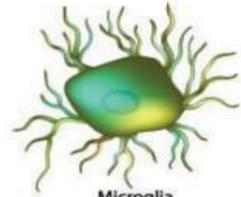


Peripheral Nervous System

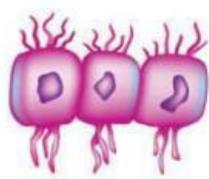
Central Nervous System



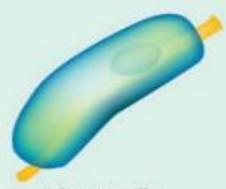
Satellite cells



Microglia



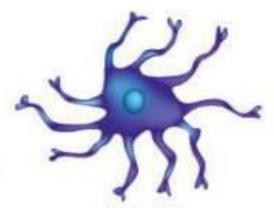
Ependymal cells



Schwann cells



Oligodendrocytes



Astrocytes

THANK YOU

Nabaa Faiz Abbas