

Central Nervous System

SHEET# 1 - PHYSIOLOGY

LEC. TITLE : ORGANIZATION OF THE NERVOUS SYSTEM

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| Lec. 1 | Physiology (Dr. Ejlal)

Organization of The Nervous System

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Axon hillock: highly excitable part of the axon. The action potential starts from this part of the axon

The size and shape of the Terminal Arborization depend on the size and structure of the post synaptic element

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The nissl bodies contain stacks of rough endoplasmic reticulum and golgi apparatus. Those nissl bodies are responsible for selective transportation to the cell body

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Nervous system does not use simple diffusion because it needs a faster way of transportation

.Axons contain a large number of mitochondria

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.Neural cells cannot regenerate

Neurons are in the G₀ phase and will never enter the G₁ phase or the mitotic phase

And that's why most brain tumors come from the neuroglial cells, they can undergo mitosis

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The thalamus is considered a filtering structure

After receiving the input the thalamus either permits the impulse or discards it. About 99% of the sensory impulses are discarded

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Types of synapses include chemical and electrical synapses. The most common types are chemical synapses. Those depend on a neurotransmitter to transmit the signals

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