HISTOLOGY PRACTICAL LECTURE - 8 -

NERVOUS TISSUE

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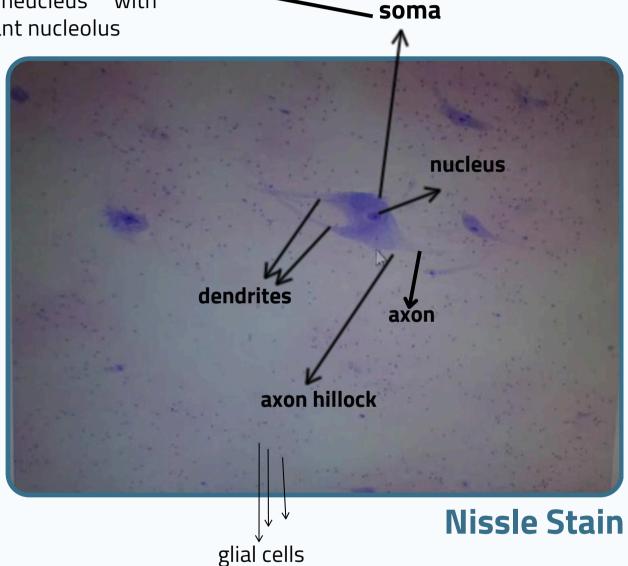






Multipolar neuron
Soma (pericarion) trophic (synthetic part)
Large neucleus with
prominant nucleolus

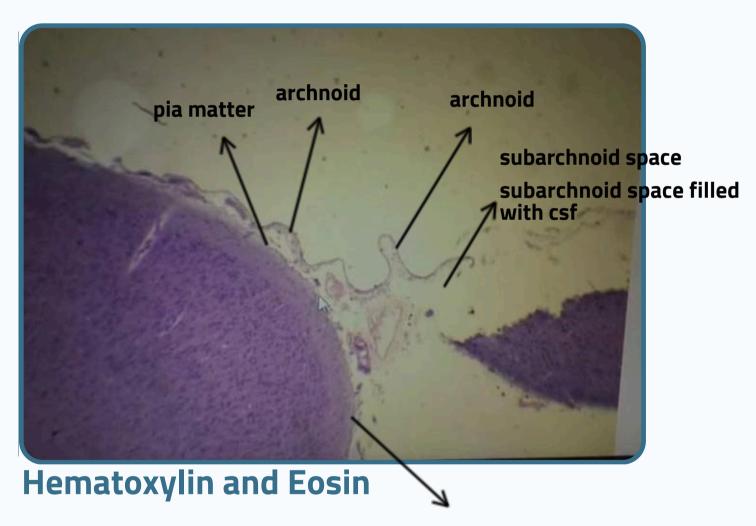
OX Spinal Cord



the small dots

Axon hillock (no granules)
Axolima (membrane of axon)
Axoplasm (content of axon)
Basophilic granules (polyribosoms highly developed RER)
called nissle body or nissle granules

Cerebra Cortex



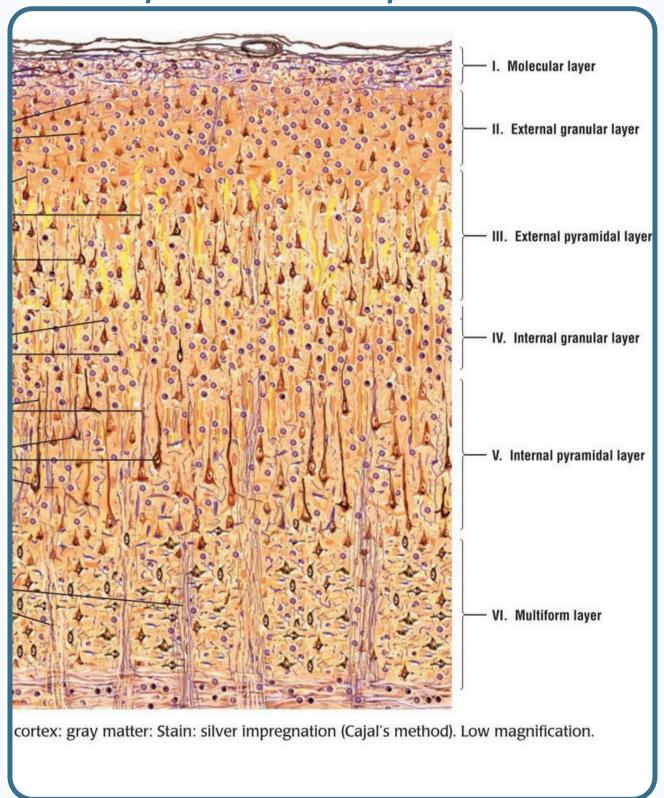
pia matter

Pia matter (flattened mesnchymal cells directly adherenig to nervous tissue

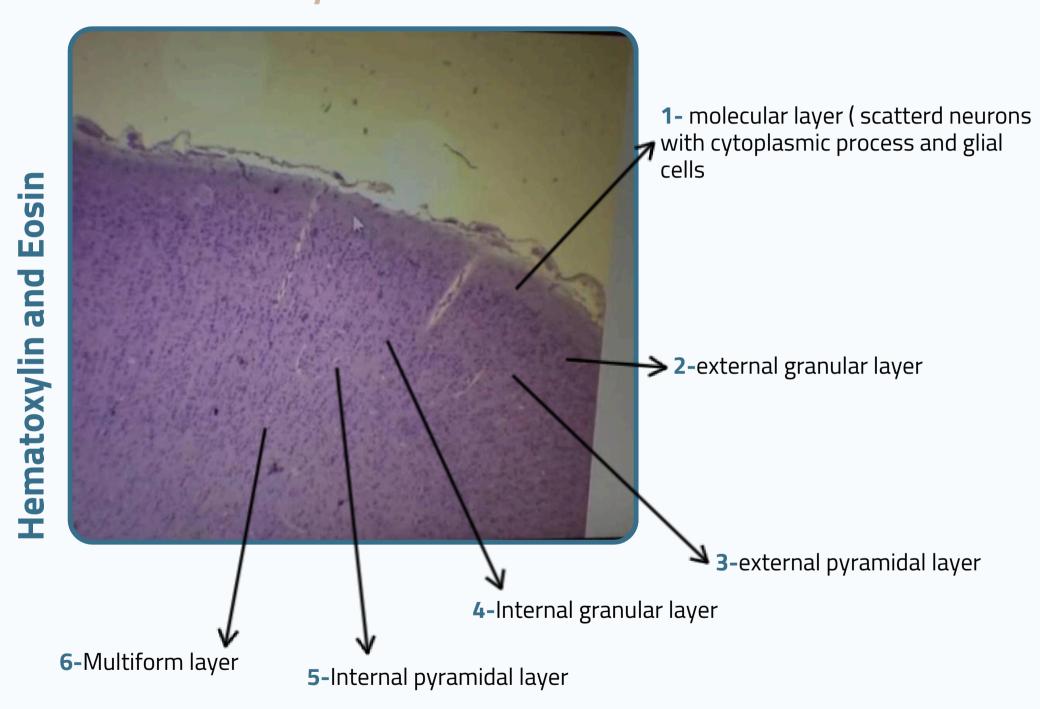




Gray Matter Has 6 Layers



Gray Matter





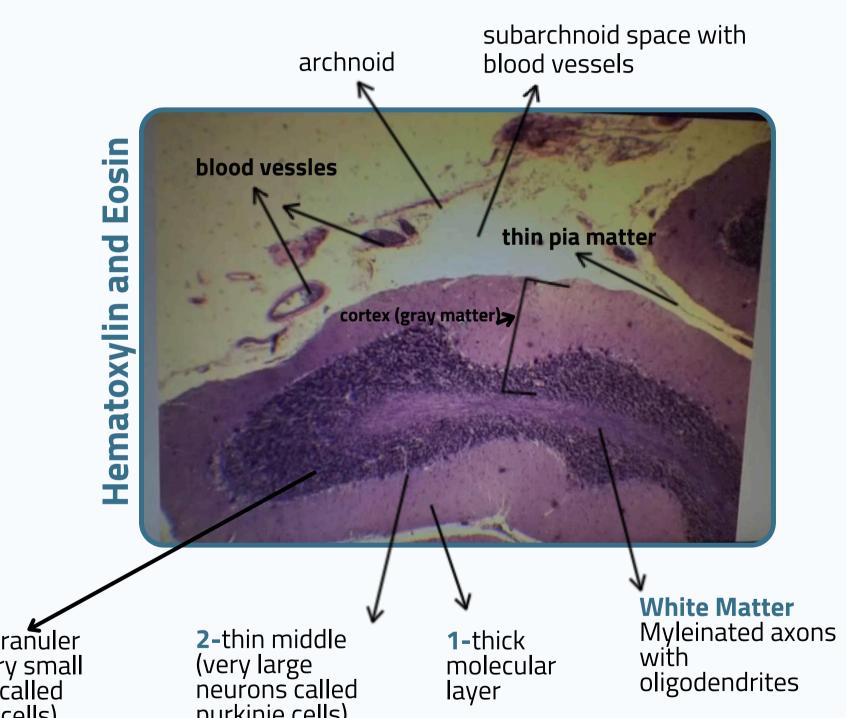


White Matter

Hematoxylin and Eosin white matter

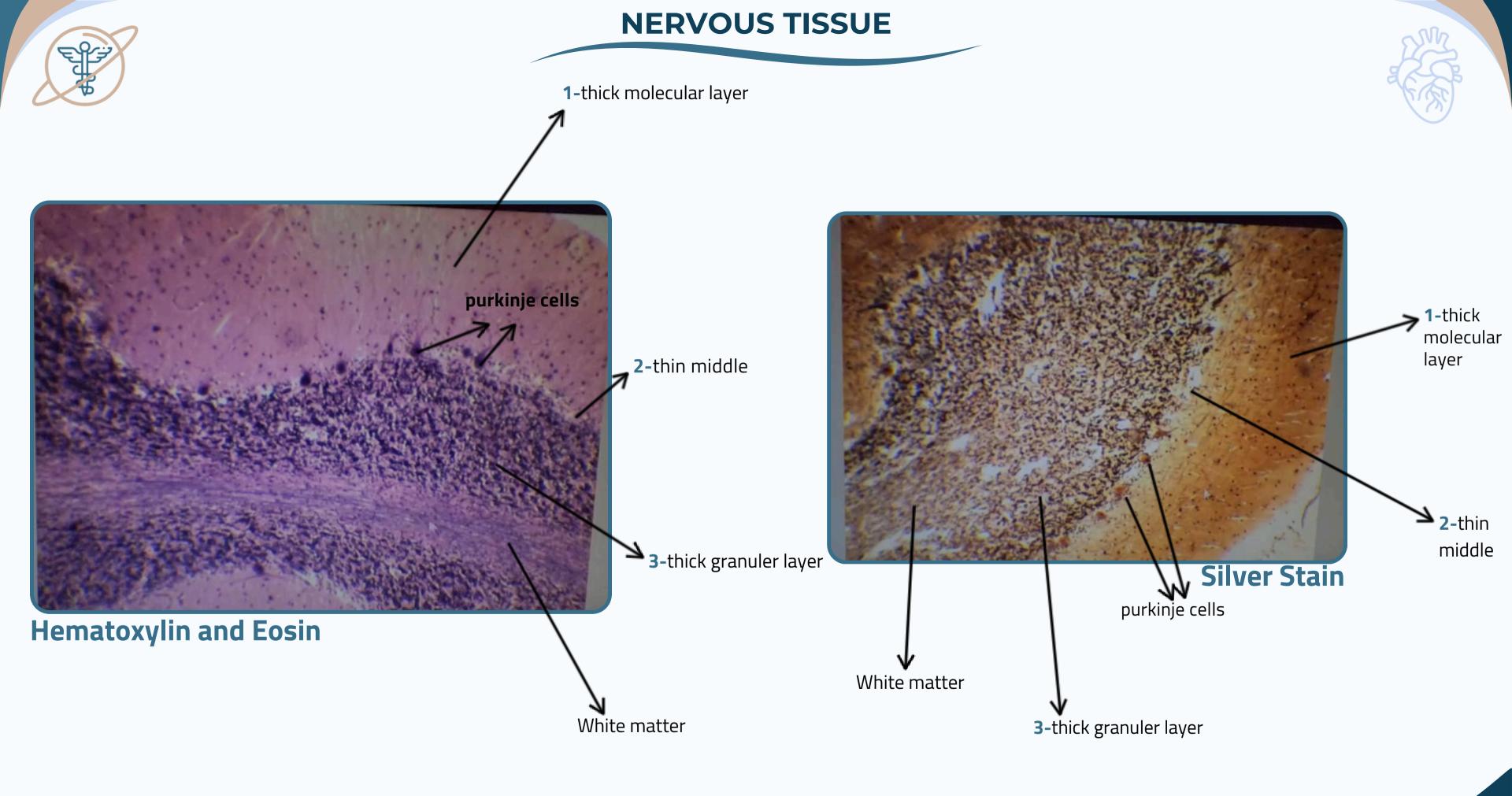
myleinated axons with oligodendrocytes appear as Vacules (mylein complex lipid is dissolved during preparing)

Cerebellum



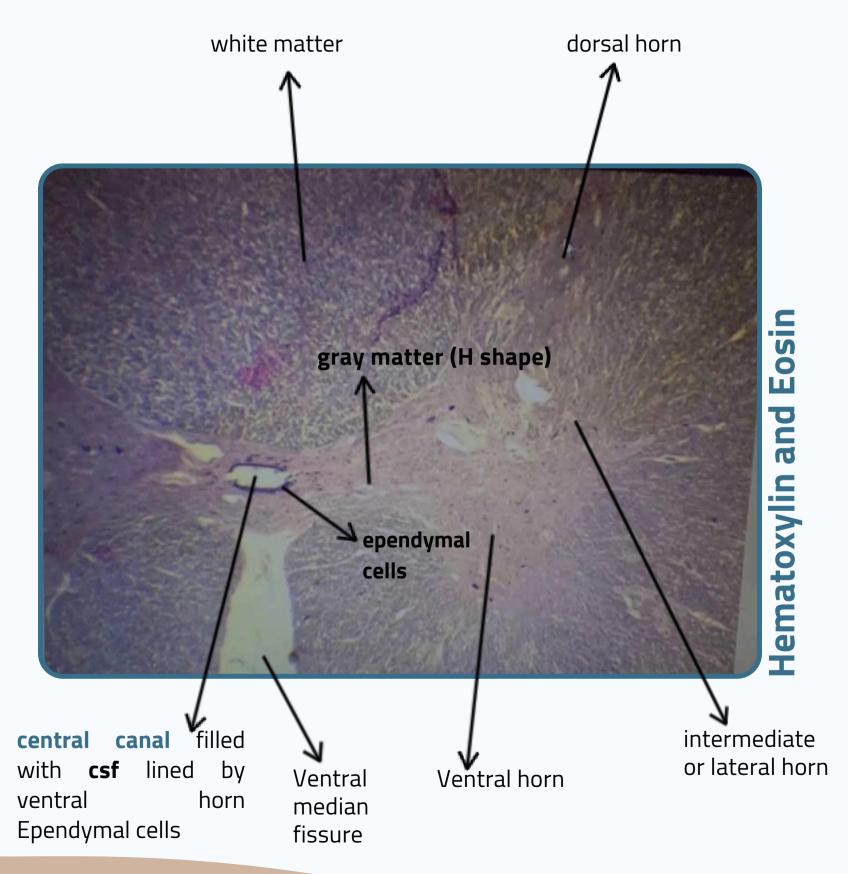
3-thick granuler layer (very small neurons called granuler cells)

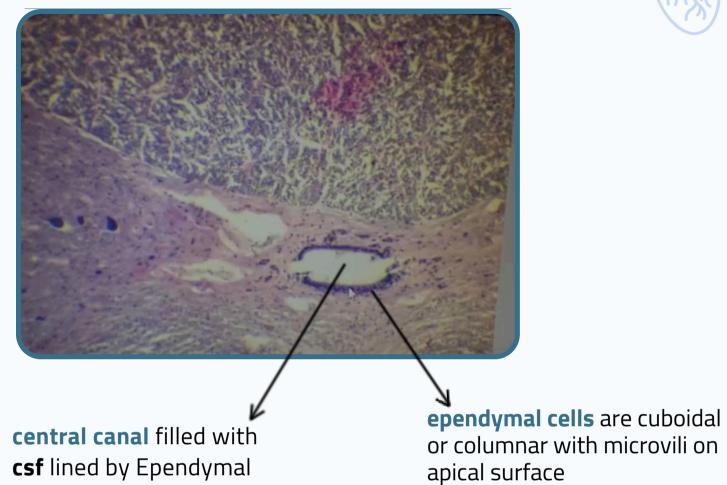
purkinje cells)

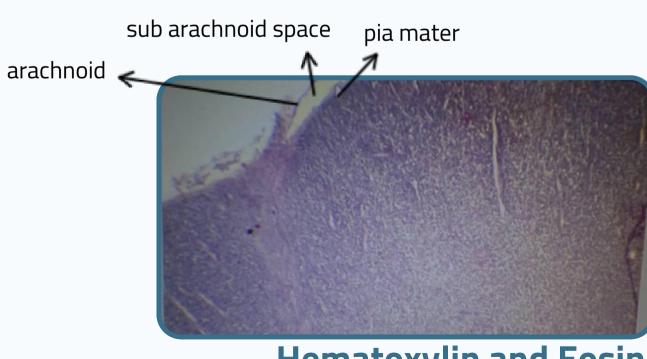












cells

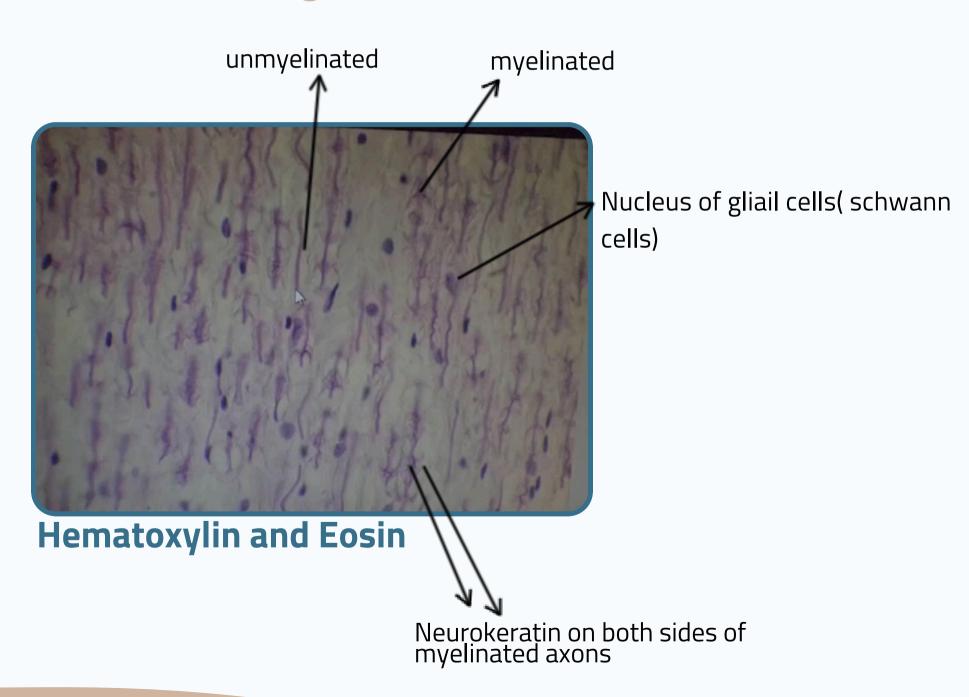
Hematoxylin and Eosin



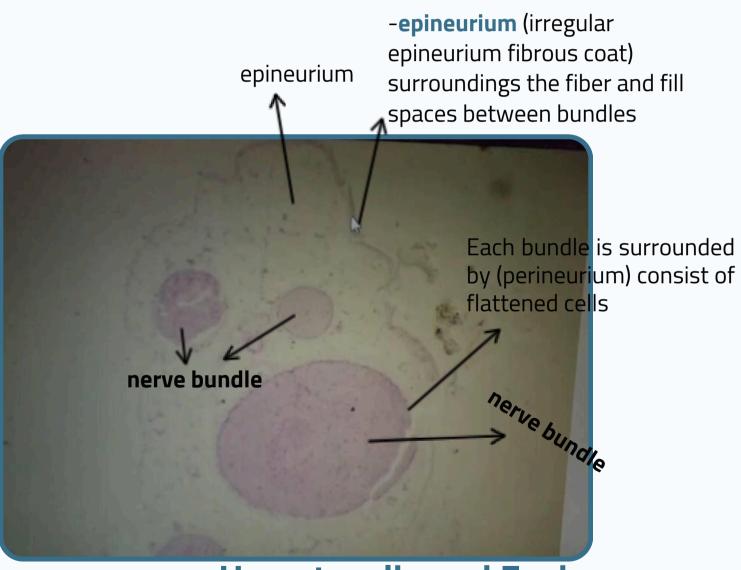


Peripheral Nervous System

Nerve Longitudinal Section



Cross Section

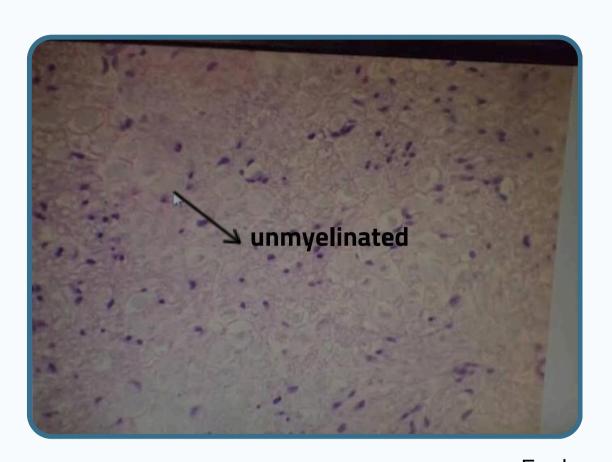


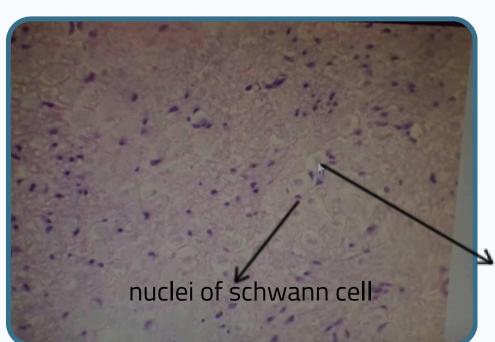
Hematoxylin and Eosin











Each axon is surrounded by endoneureum consist of reticular fibers and scatterd fibroblast

→ myelinated



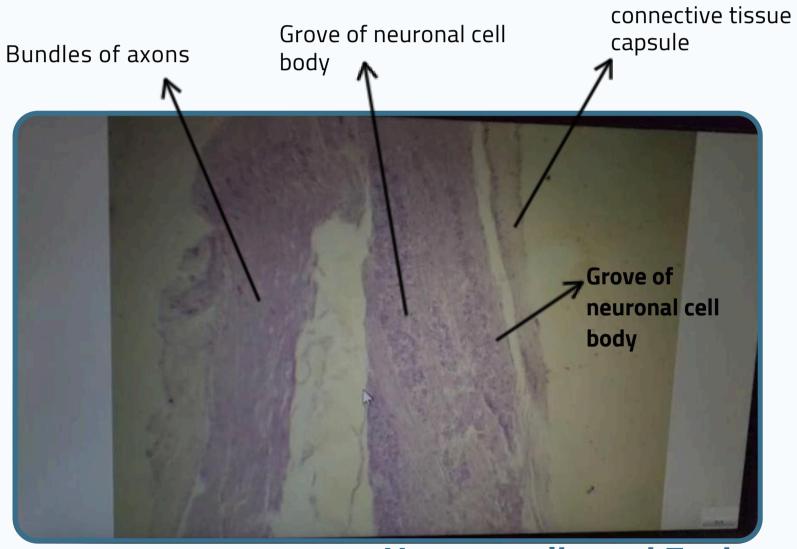




Myelinated (Medullated Axon)



Spinal Ganglia



Hematoxylin and Eosin

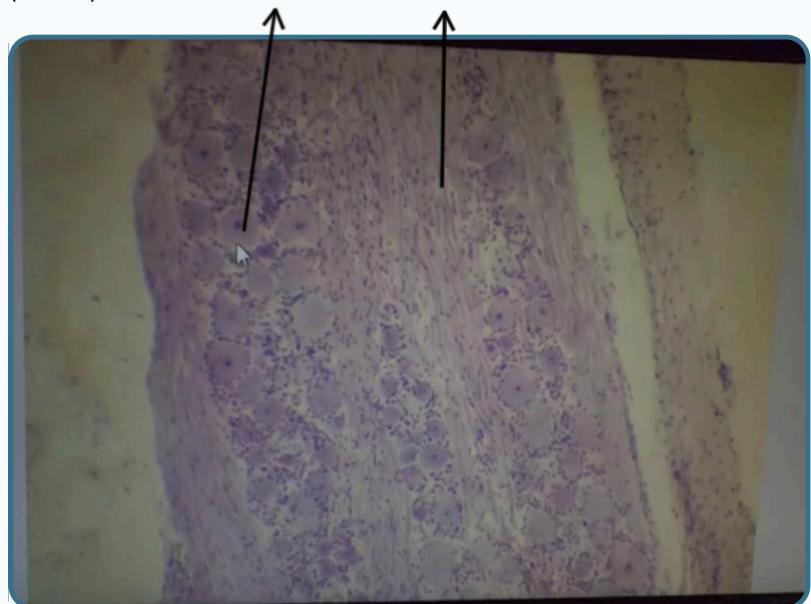




Spinal Ganglia

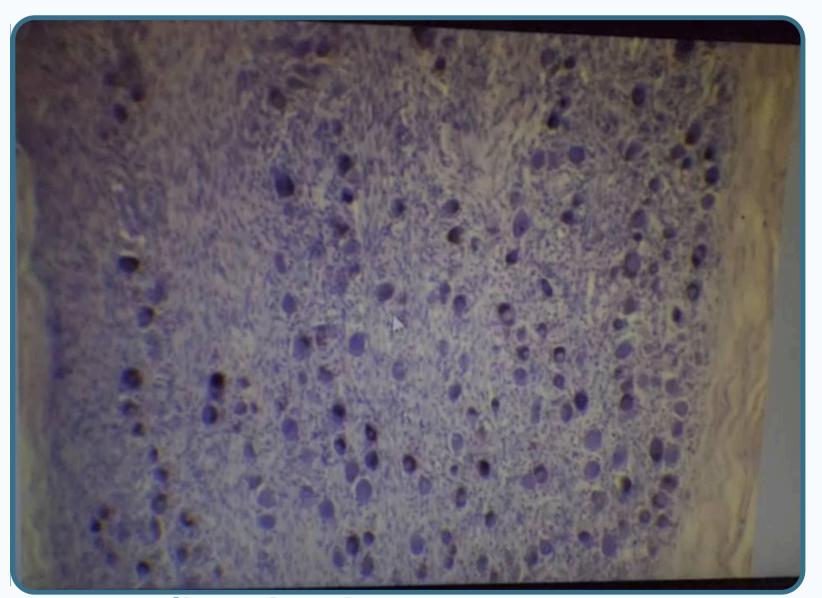
Pseudounipolar neurons (central nuclei) Surrounded by glil cells (satlite)

Bundles of axons



Autonomic Ganglia

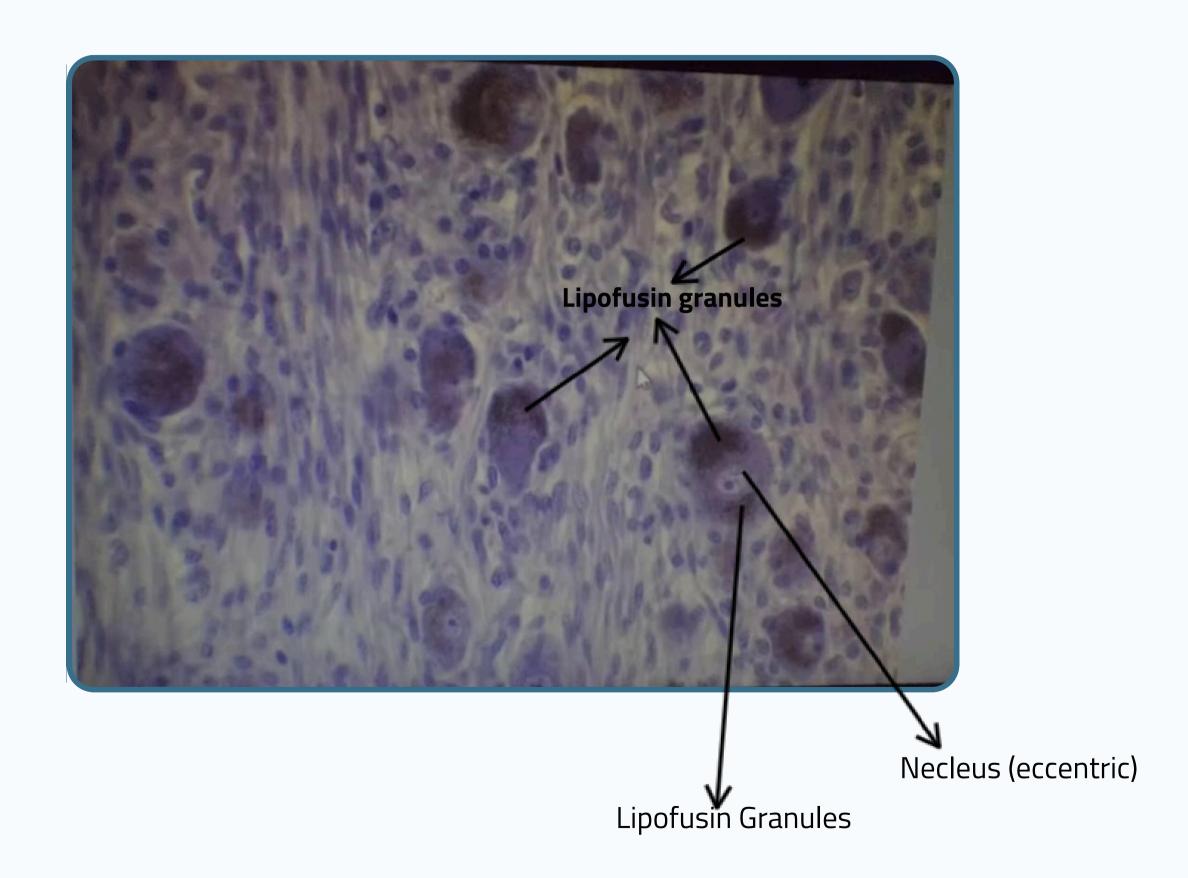
Surrounded by **CT** tissue of the organ in which they are found in **Neuronal** body mixed with **axons** (**Multipolar Neuron**)



Hematoxylin and Eosin









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