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Nerve tissue

Neurons

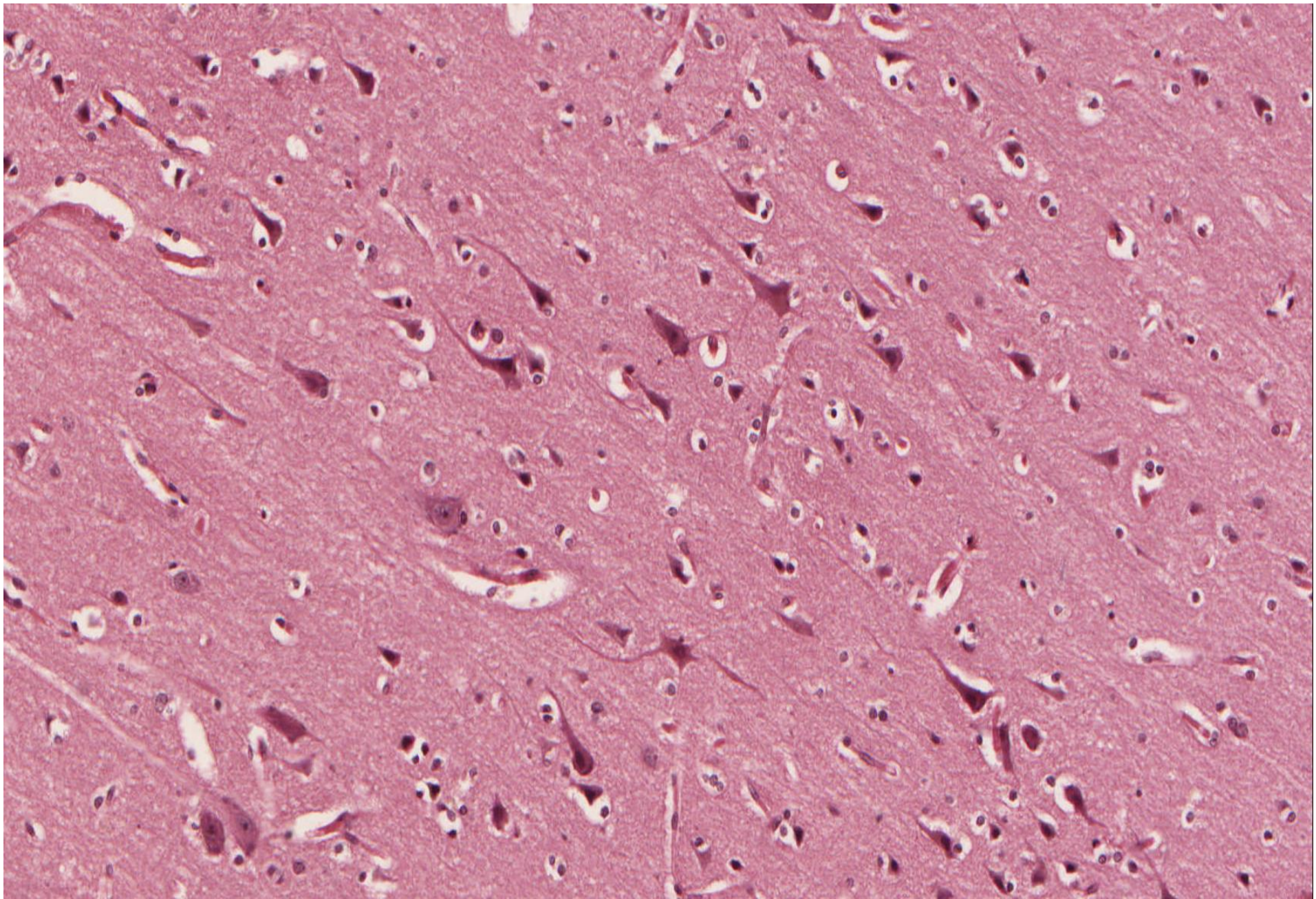
Glial cells

- **CNS**: oligodendrocytes, astrocytes, ependymal cells, microglia
- **PNS**: satellite cells, Schwann´s cells

Synapse
Myelinization
Hemato-encephalic barrier

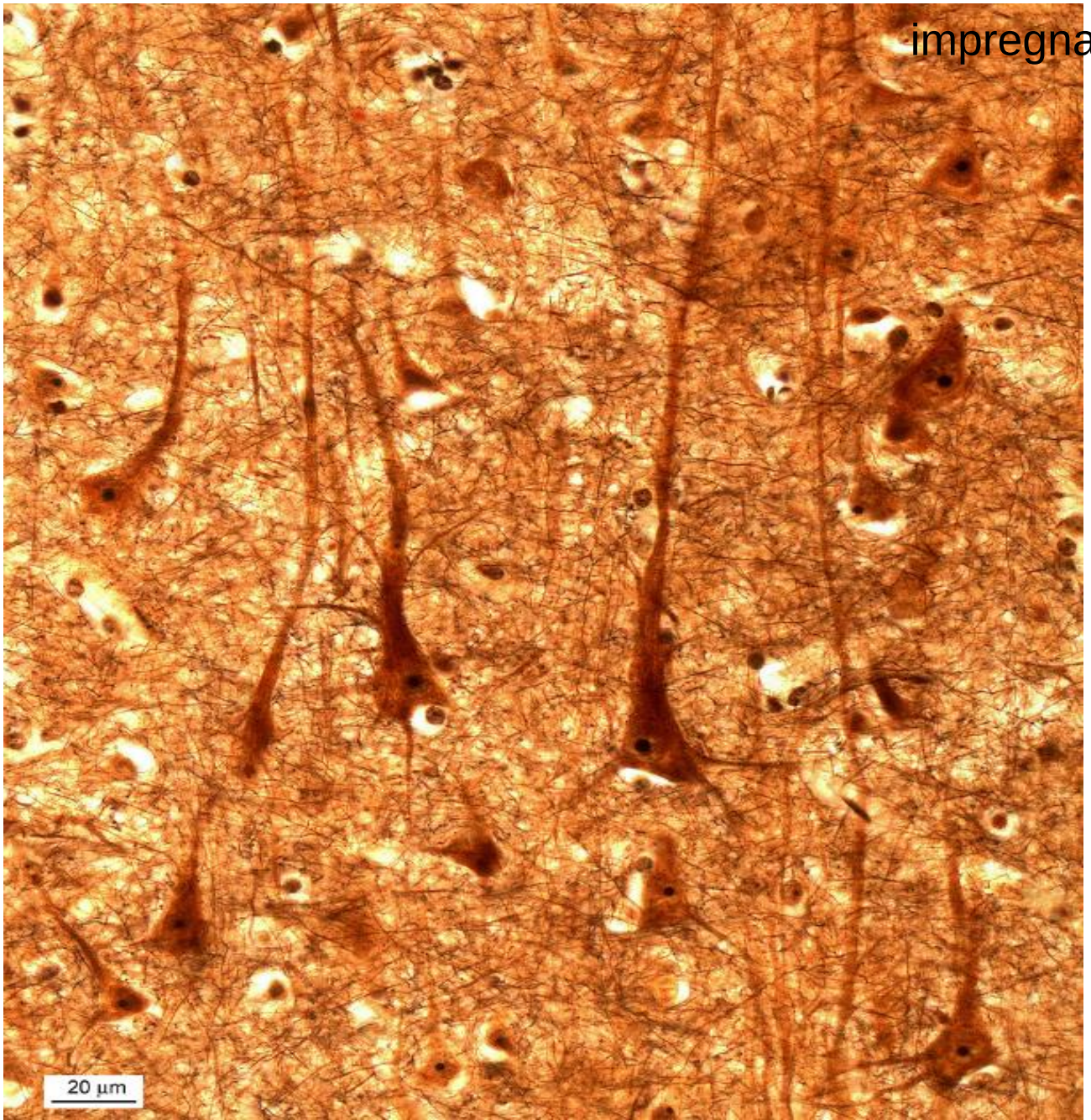
Cortex cerebri

Cortex cerebri – pyramidal cells – multipolar neurons



Cortex cerebri – pyramidal cells – multipolar neurons

impregnation



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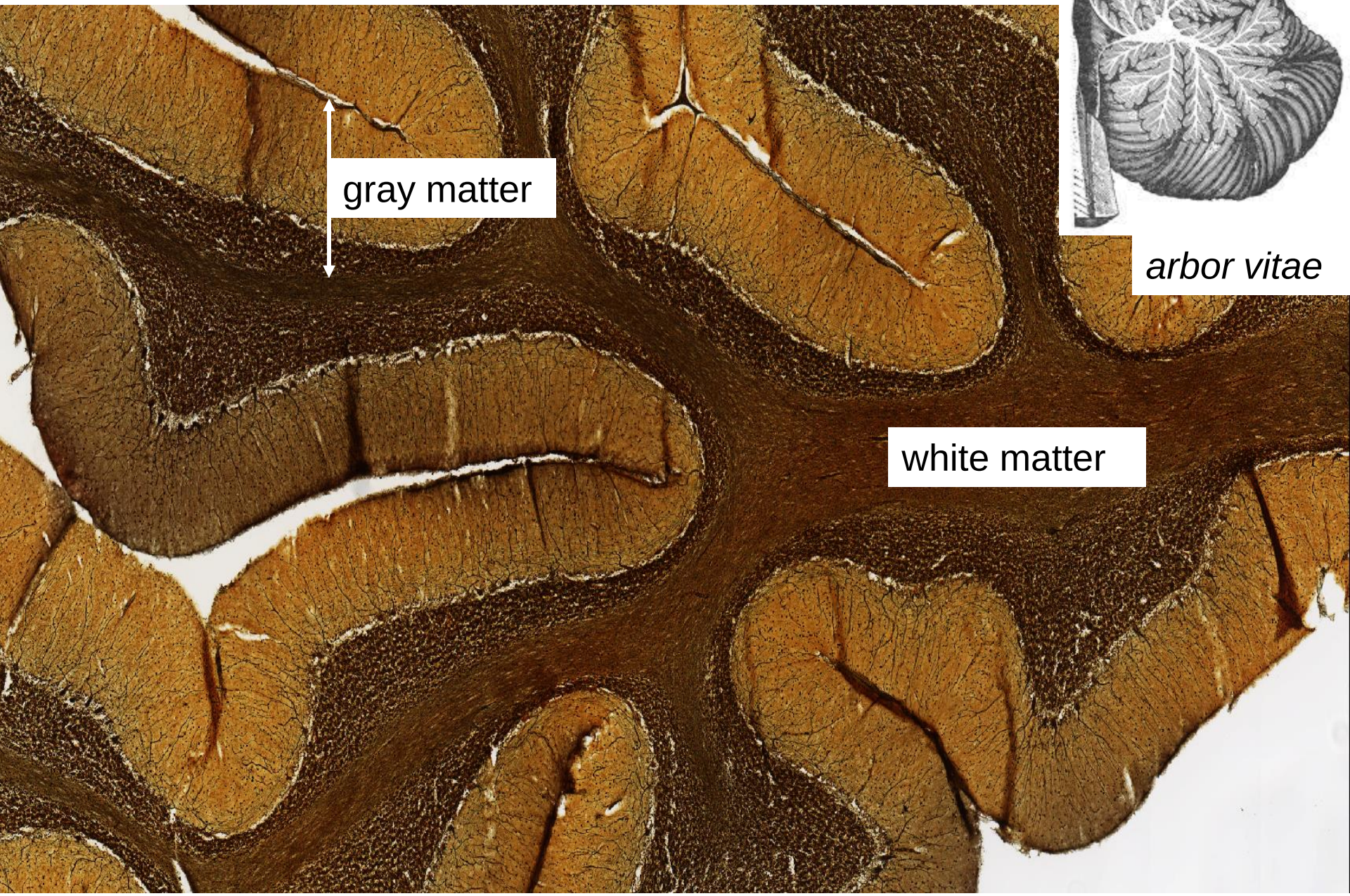
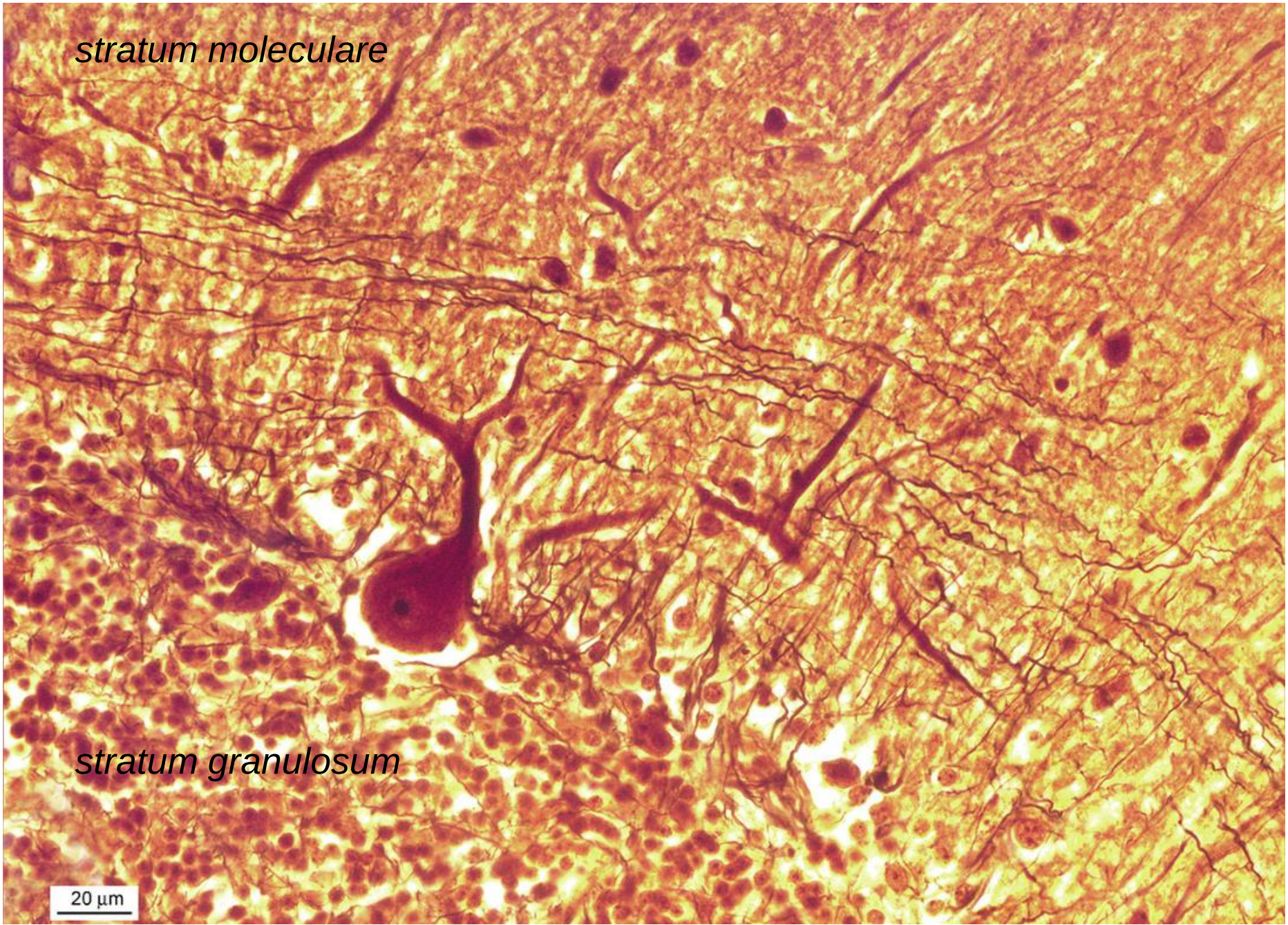
Cerebellum (impregnation)

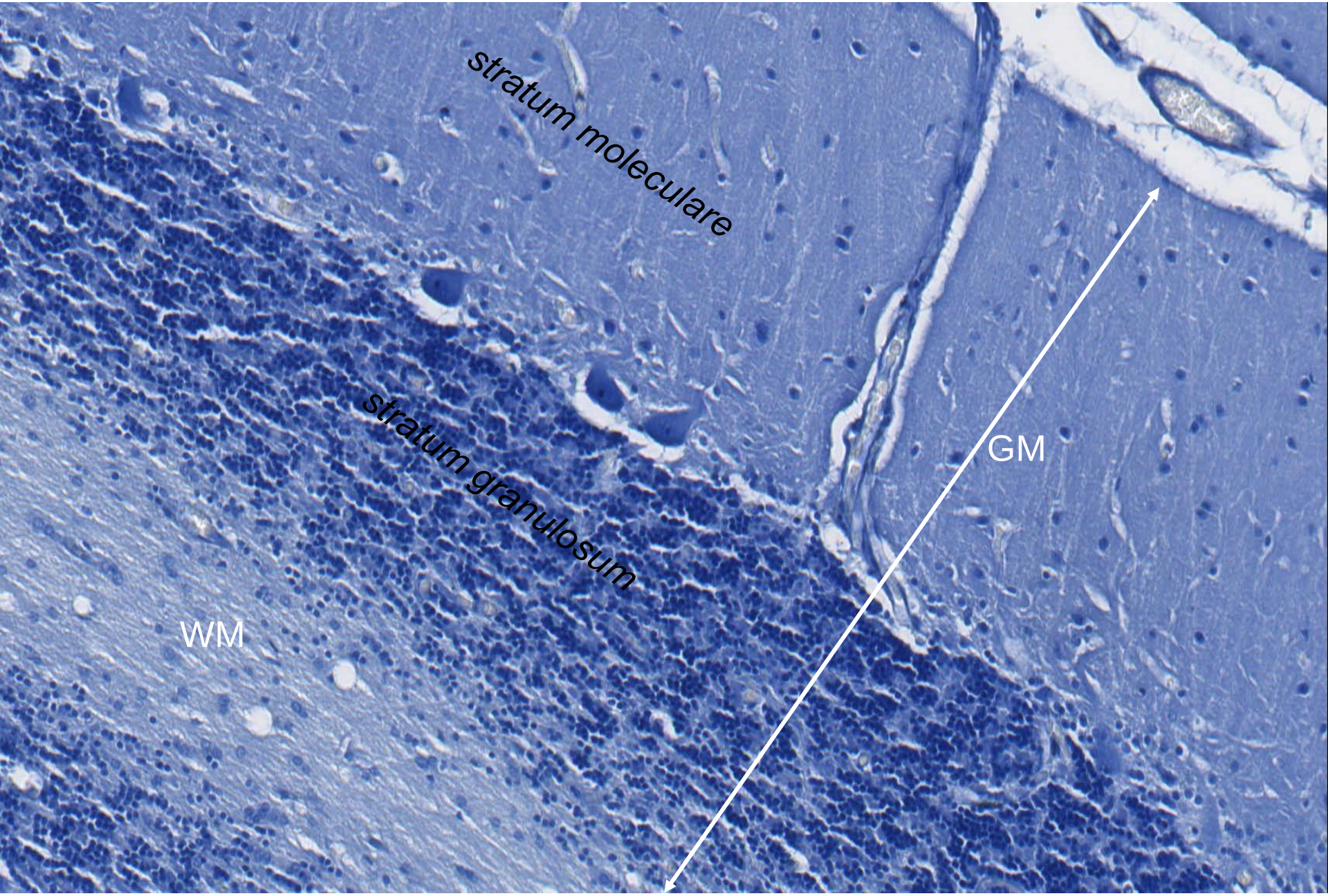


arbor vitae

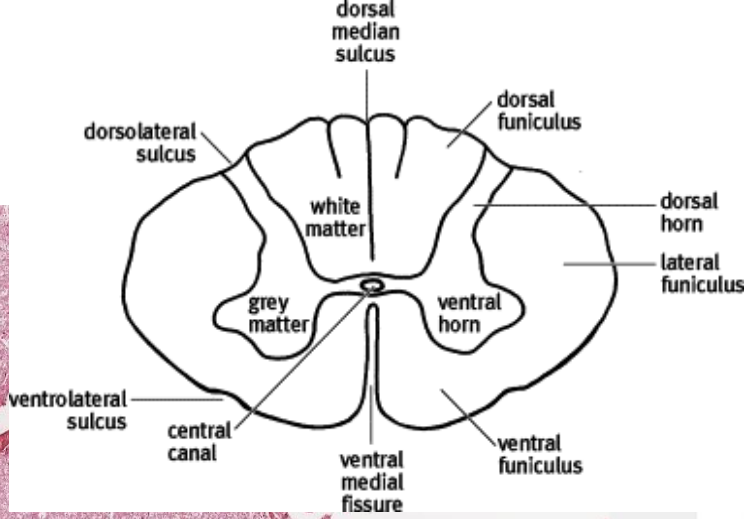
Cerebellum – Purkinje cell



Cerebellum - Nissl bodies in Purkinje cells (Nissl staining)

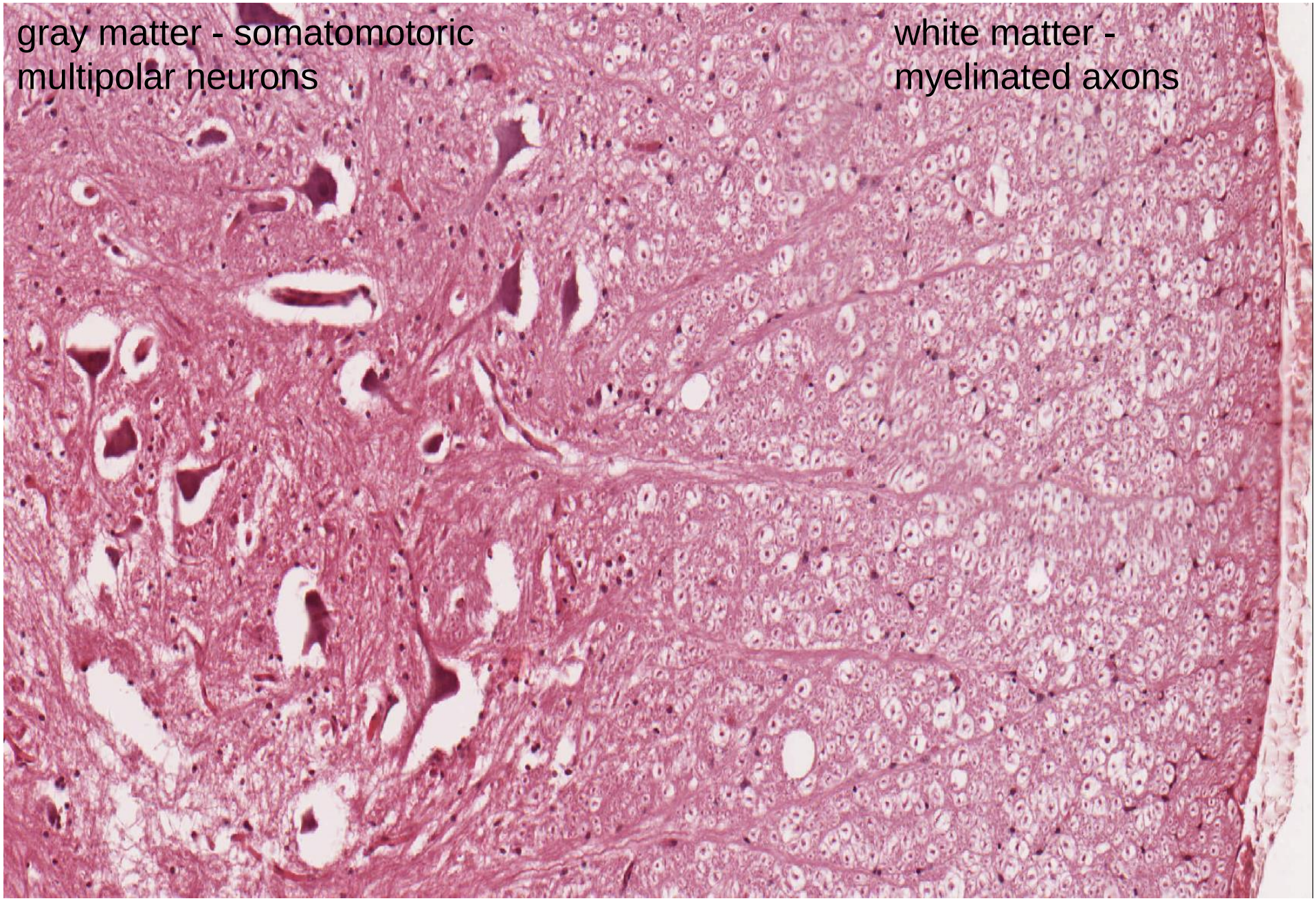


Medulla spinalis

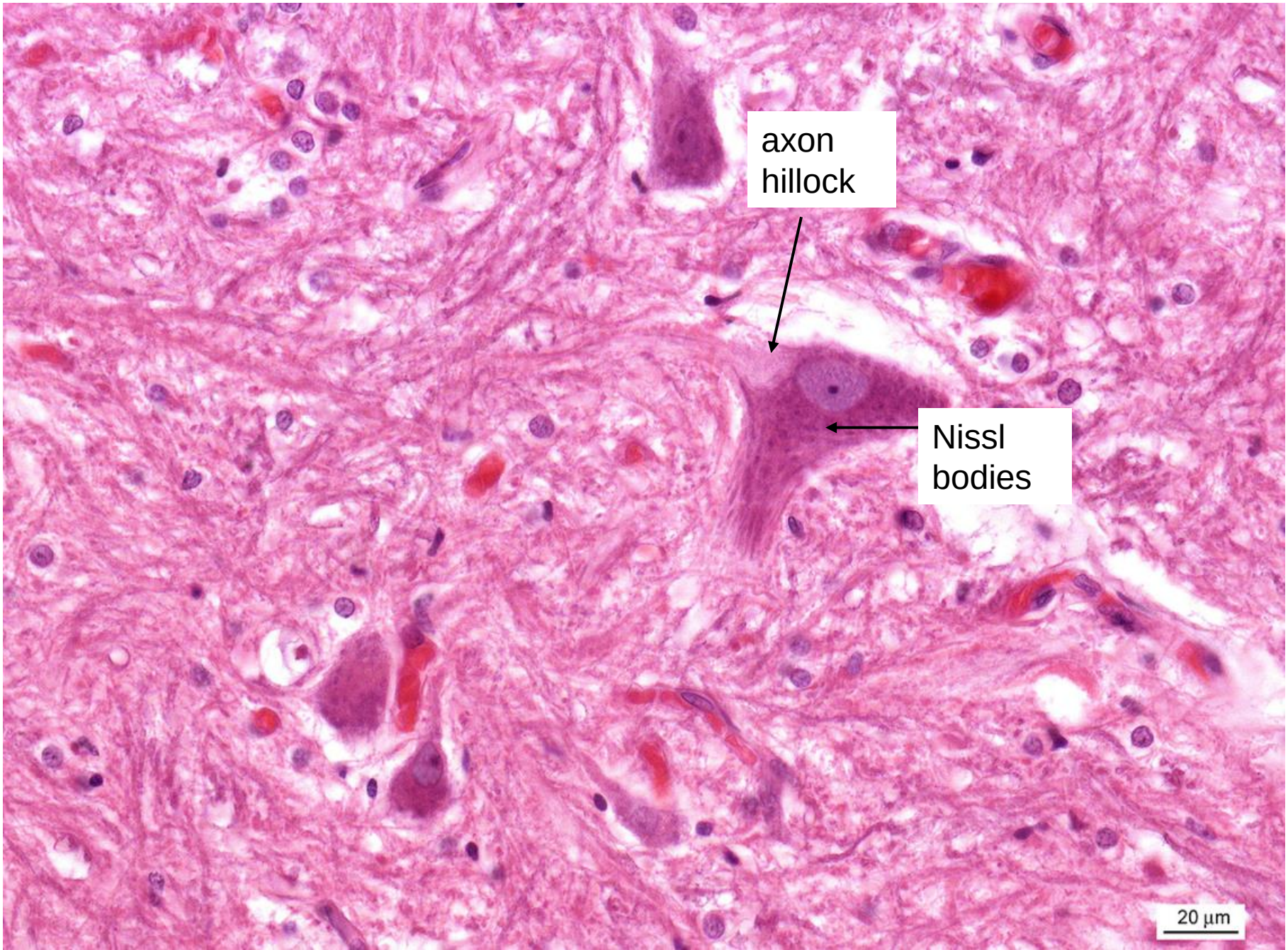


somatomotoric multipolar neurons

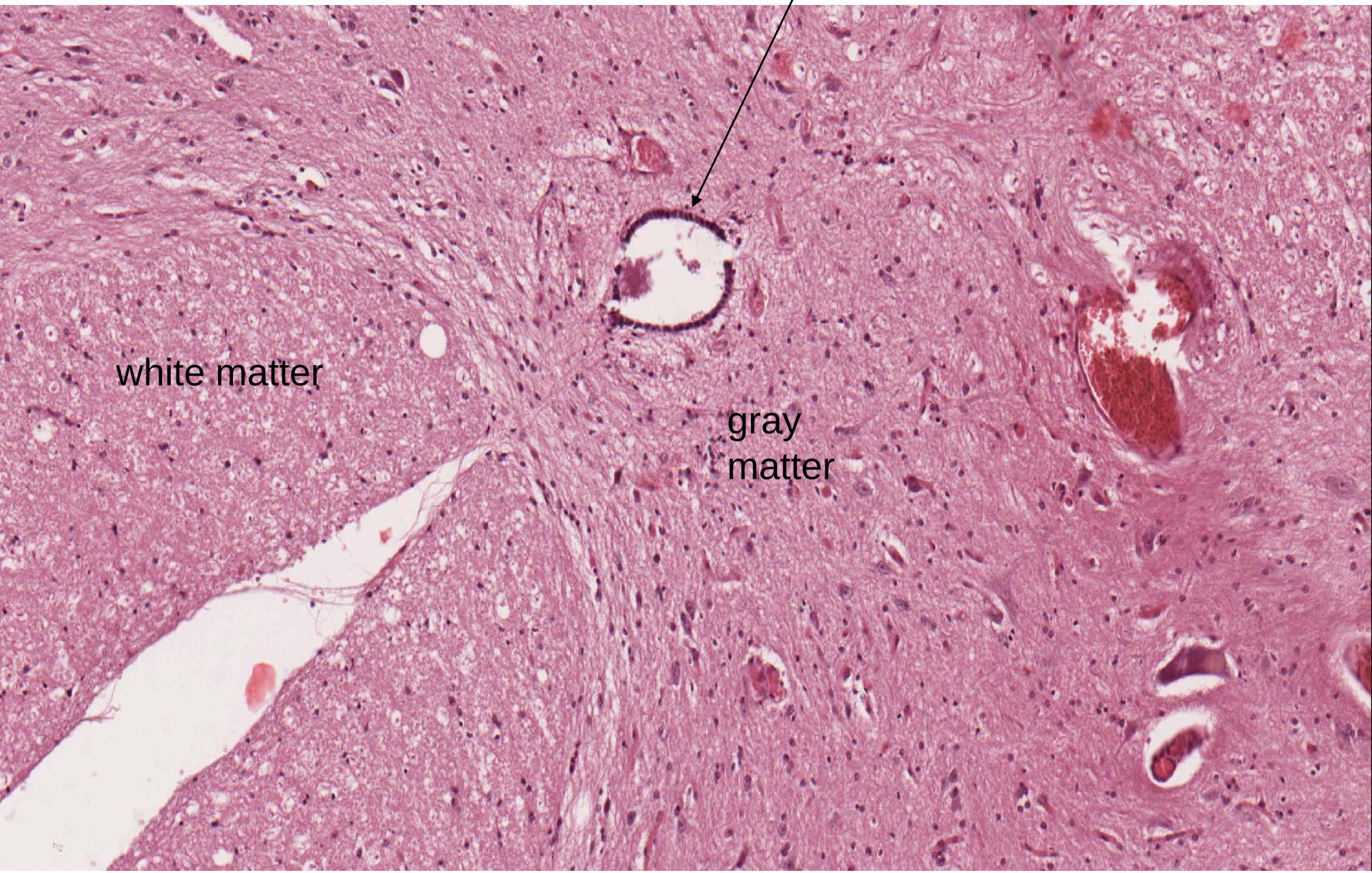
Medulla spinalis



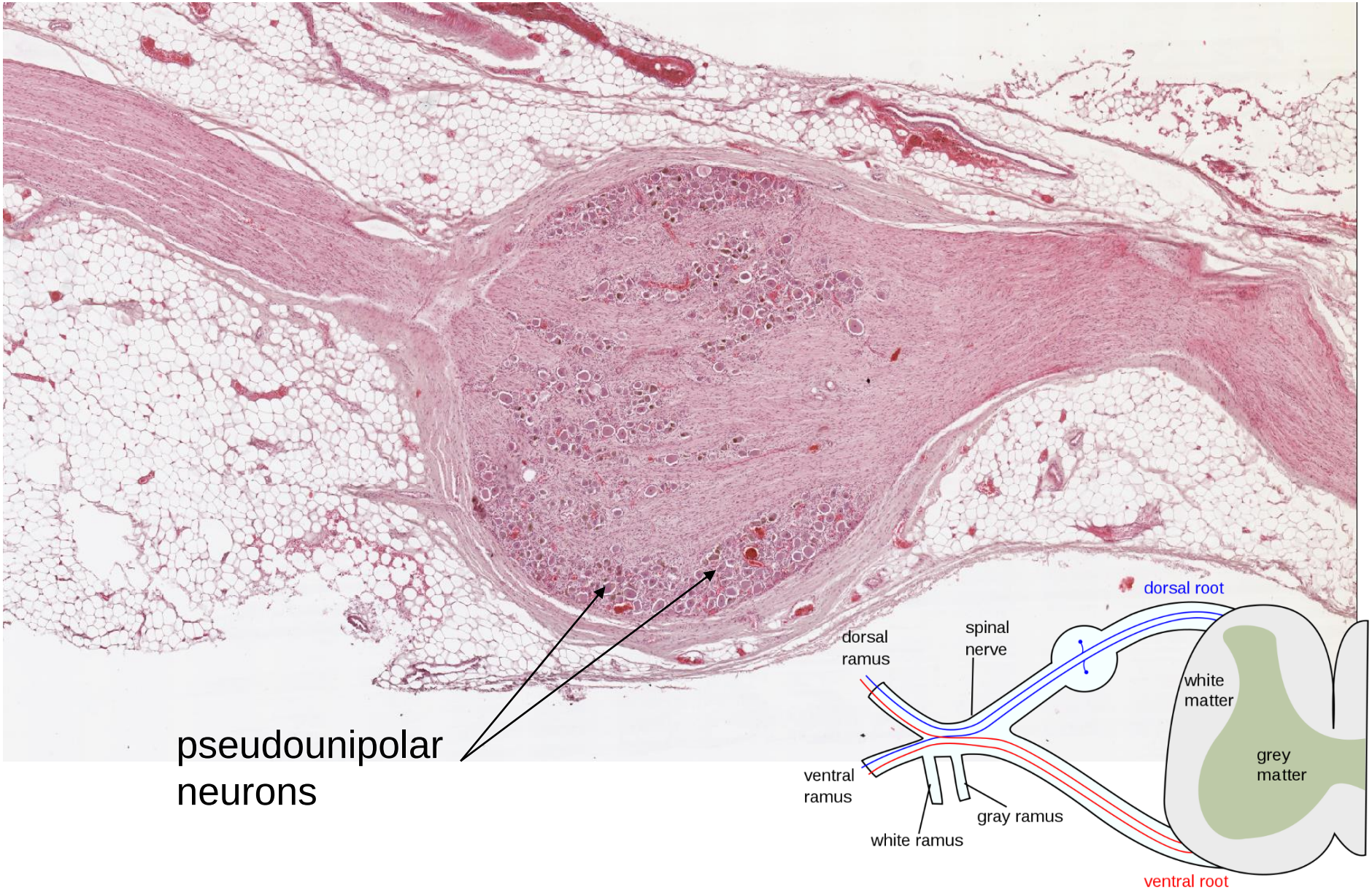
Somatomotoric multipolar neuron – *medulla spinalis*



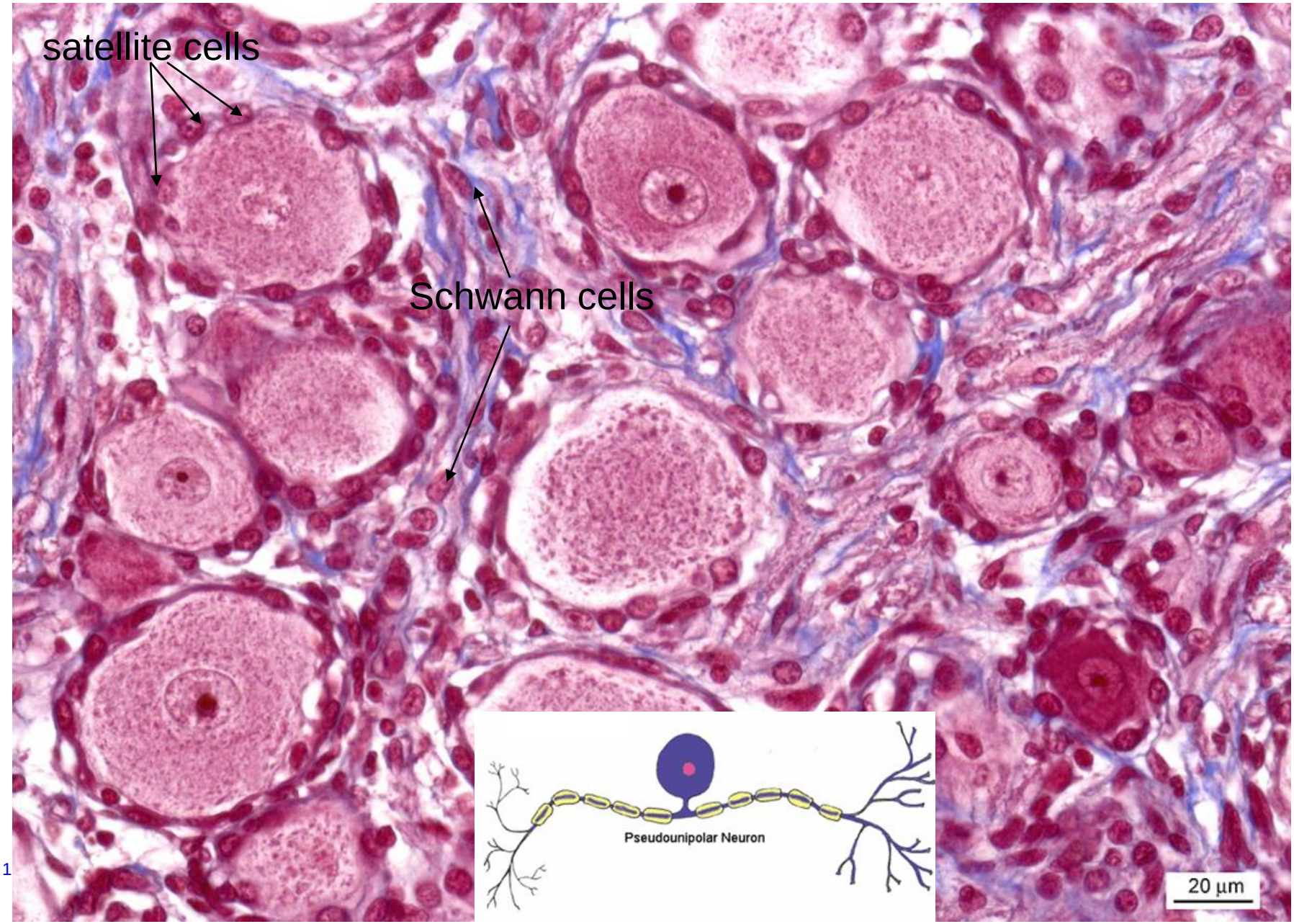
Medulla spinalis – ependymal cells



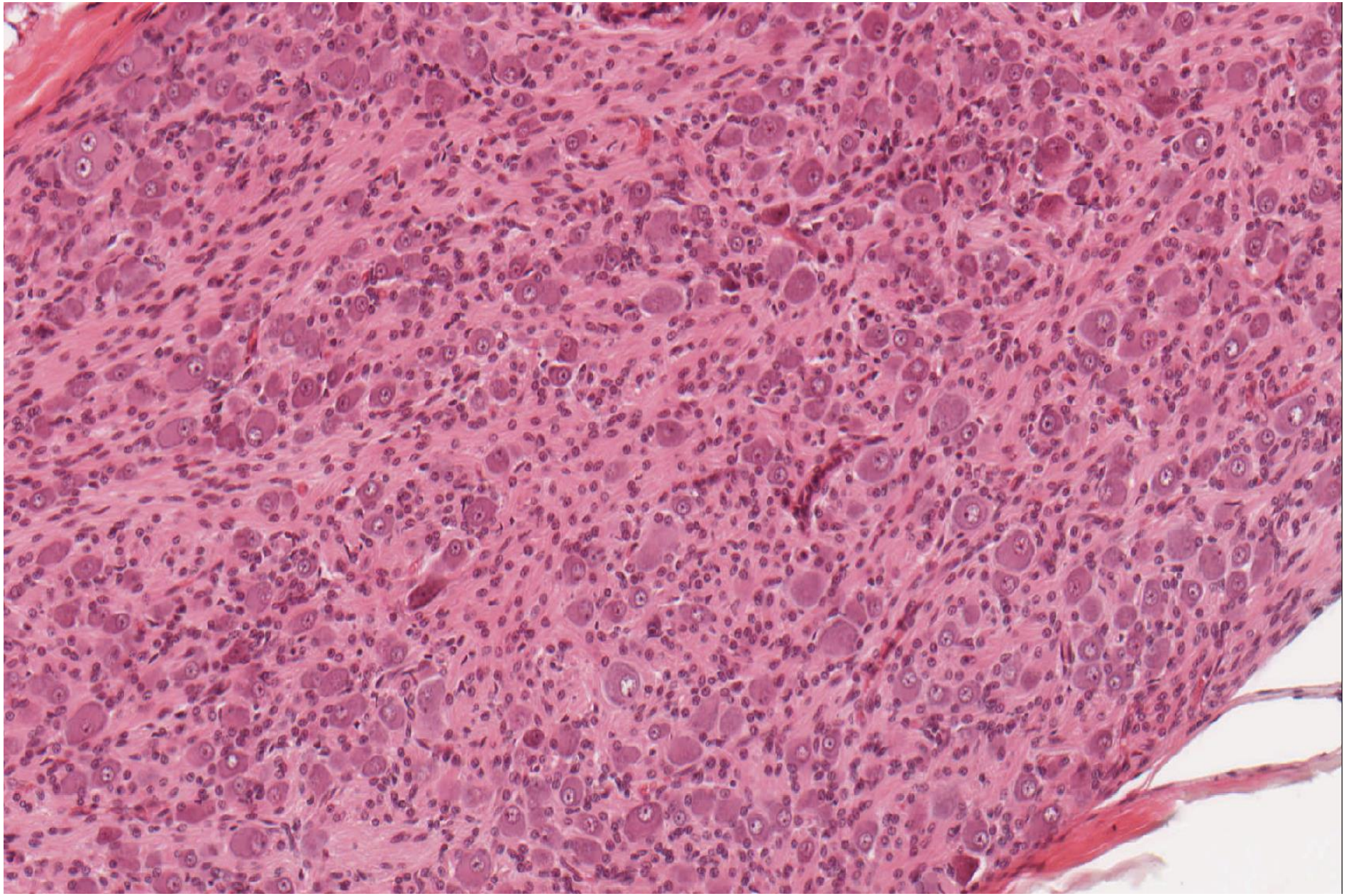
Ganglion spinale (DRG)



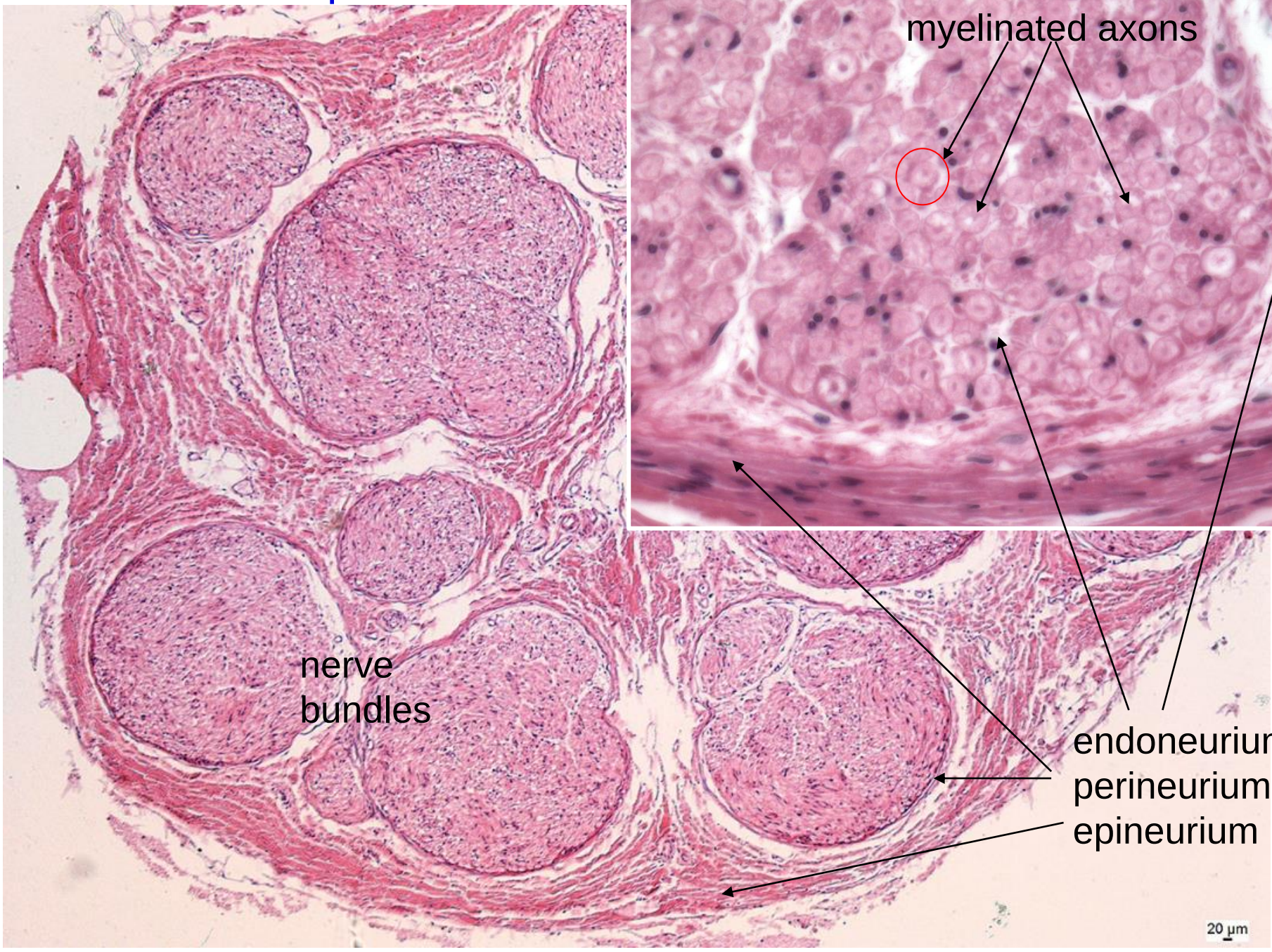
Ganglion spinale (DRG) – pseudounipolar neuron



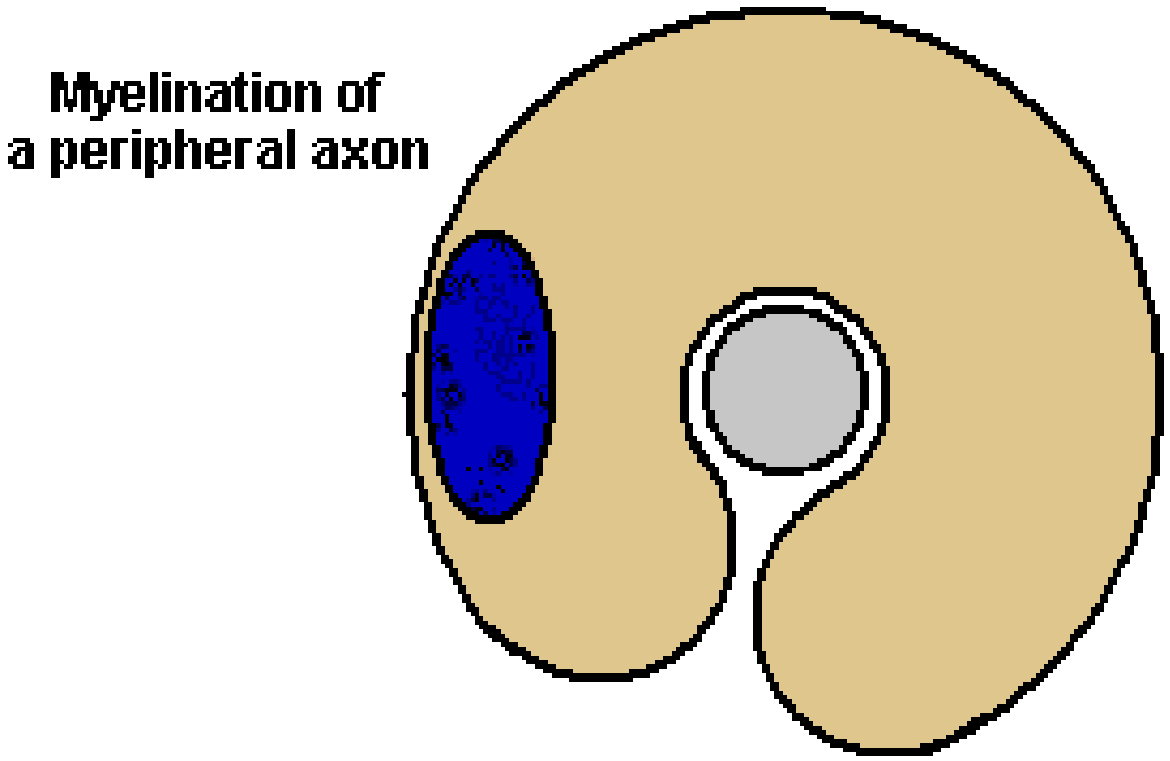
Vegetative ganglion – ganglion cells (multipolar neurons), satellite cells



Peripheral nerve

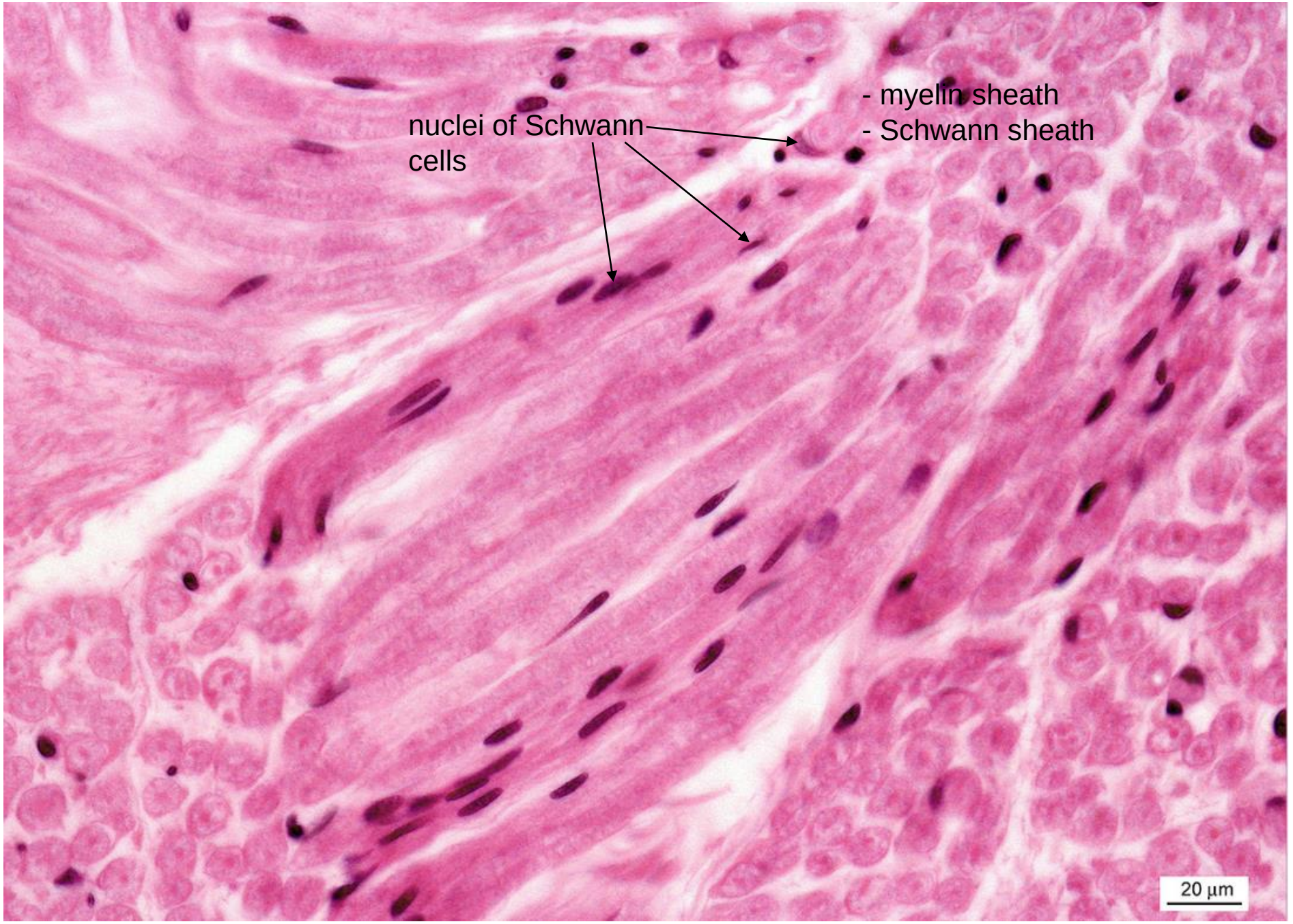


Development of myelin sheath

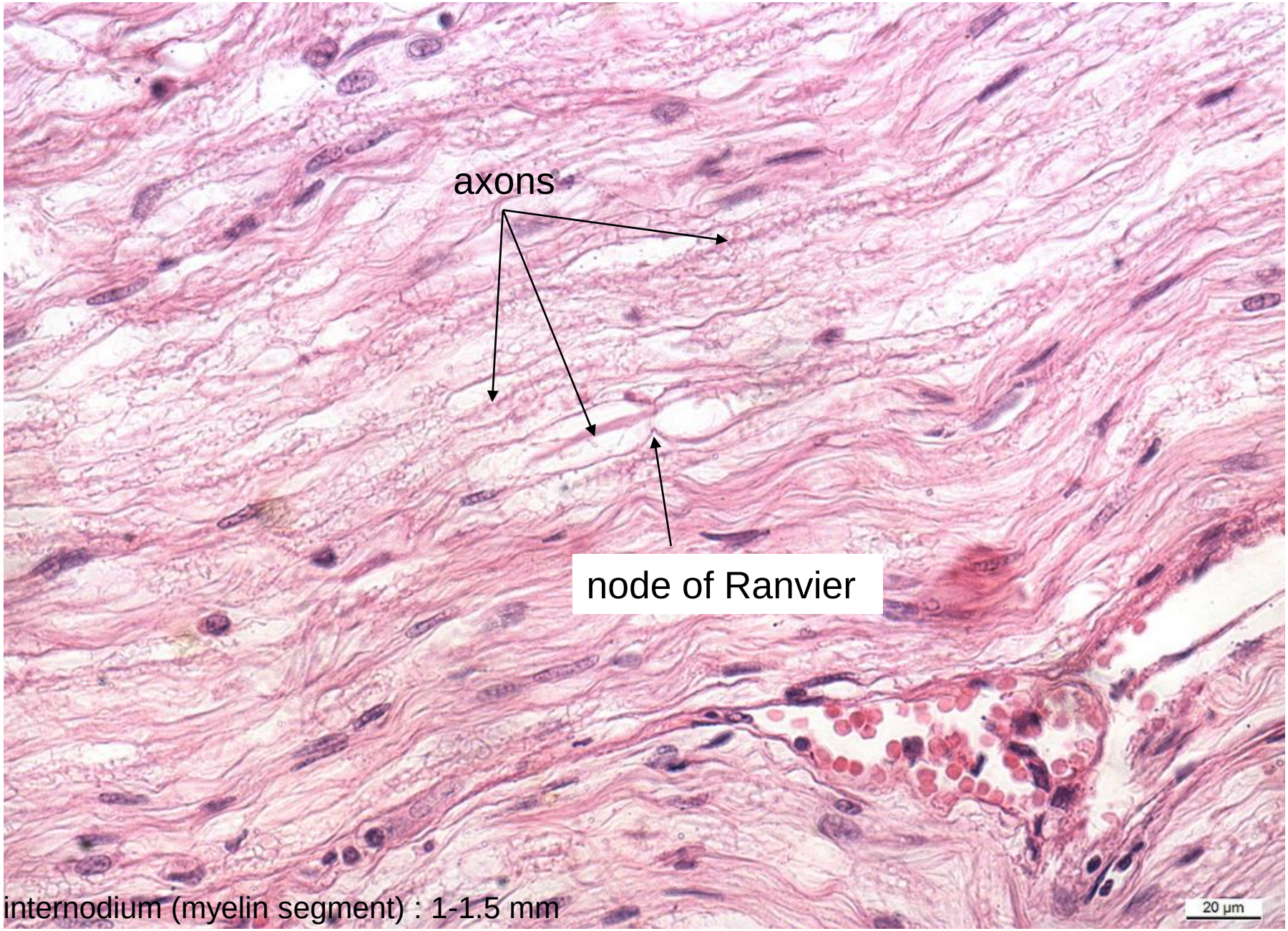


http://lecannabiculteur.free.fr/SITES/UNIV%20W.AUSTRALIA/mb140/CorePages/Nervous/Nervous.htm#CNS

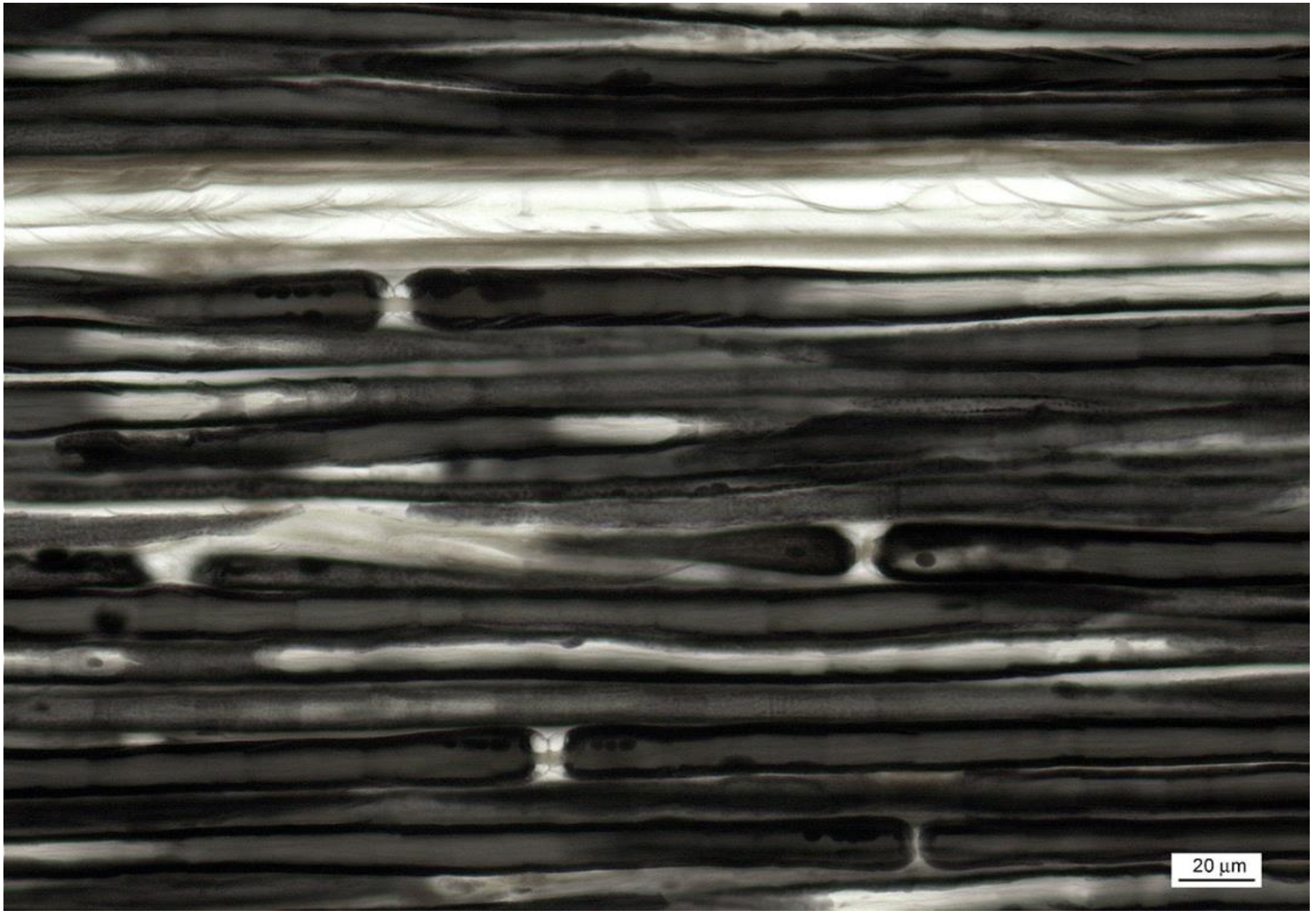
Peripheral nerve



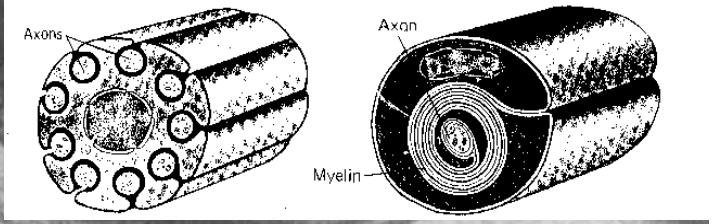
Peripheral nerve – longitudinal section



Myelin sheaths with nodes of Ranvier – peripheral nerve (OsO_4)

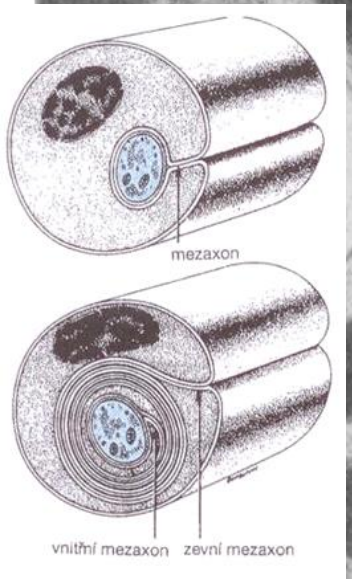


Axons with myelin and Schwann sheath



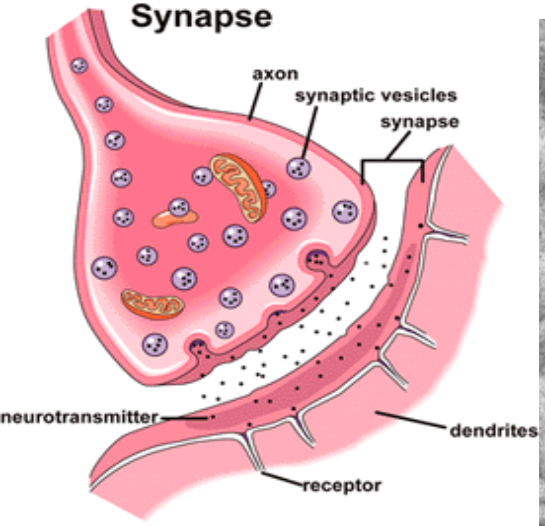
nucleus of Schwann cell

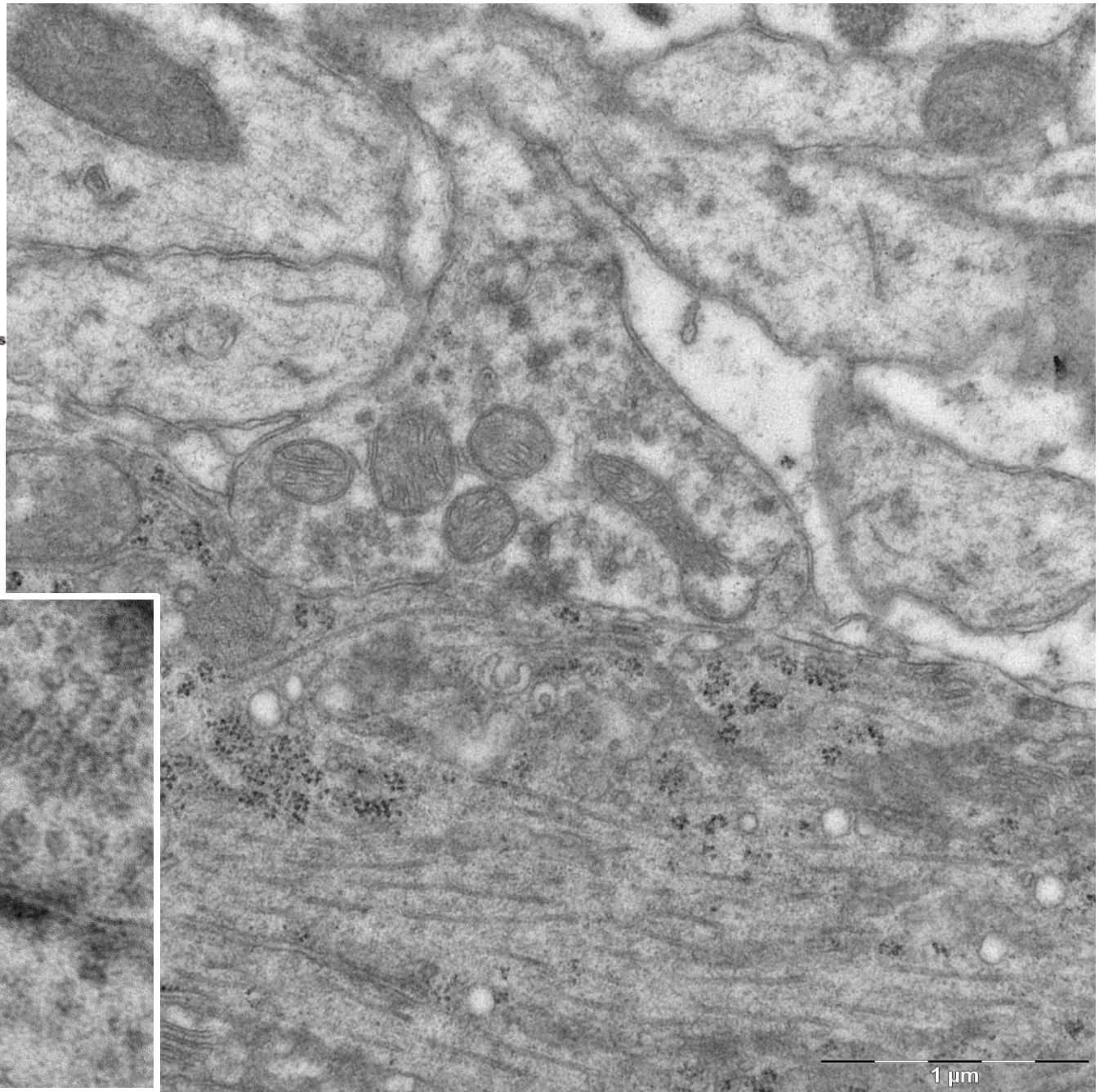
myelin sheath

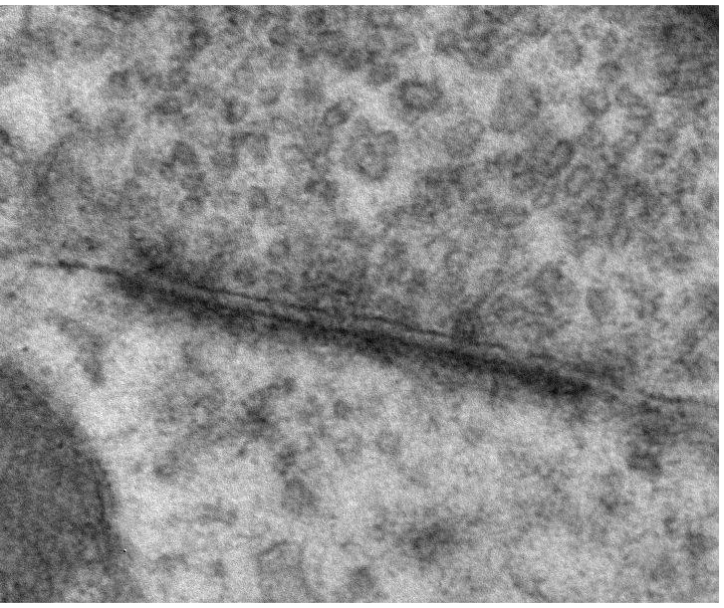


0,5 µm

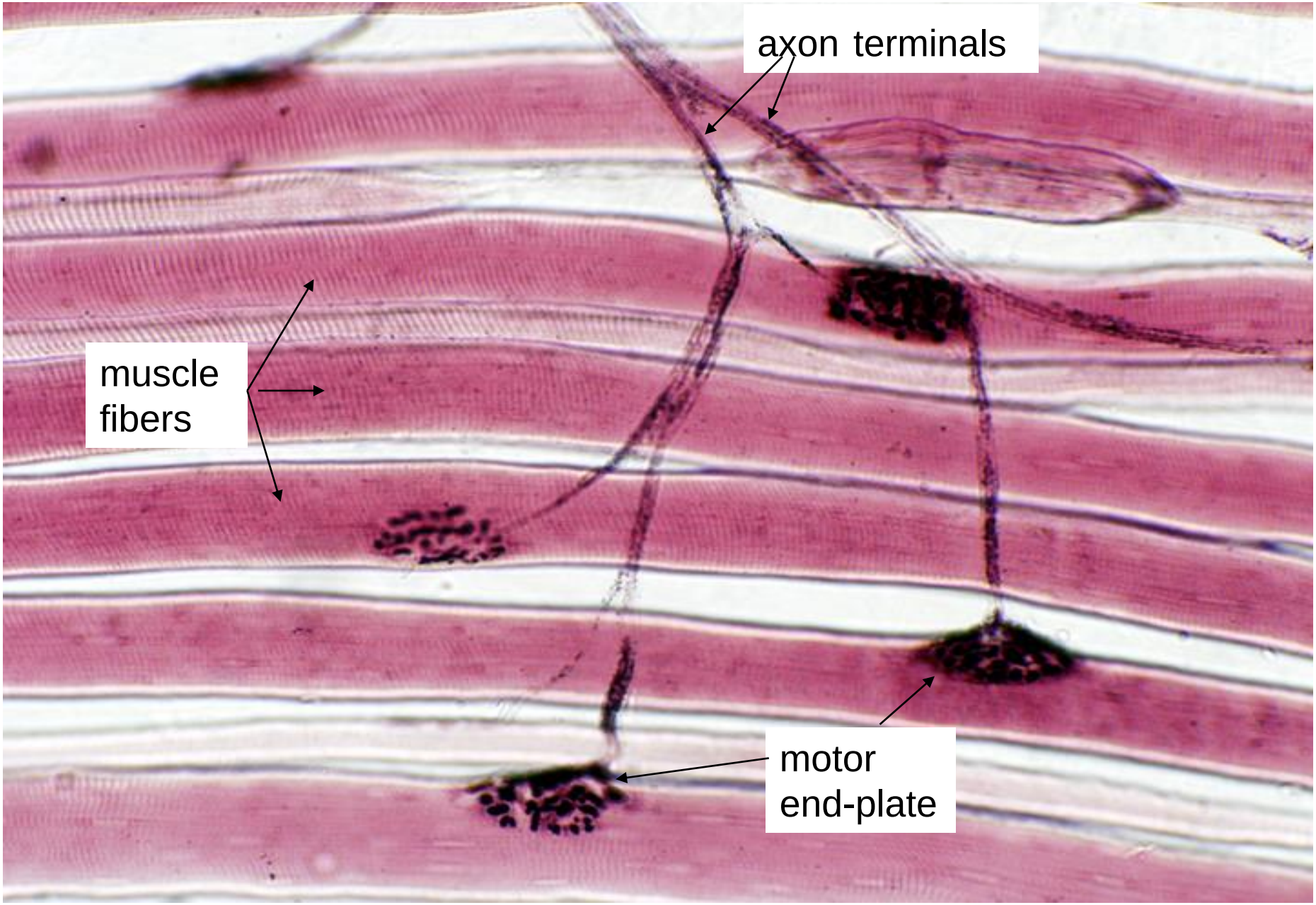
Synapse


Synapse
axon
synaptic vesicles
synapse
neurotransmitter
dendrites
receptor

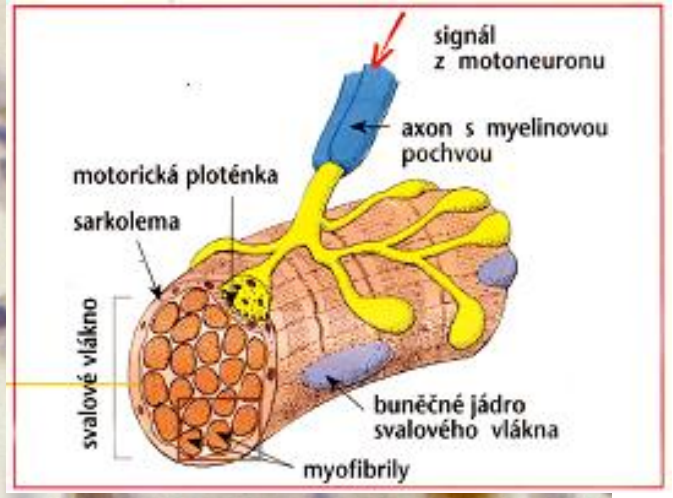

1 µm



Motor end-plates in motor unit



Motor end-plates (localization of acetylcholinesterase)

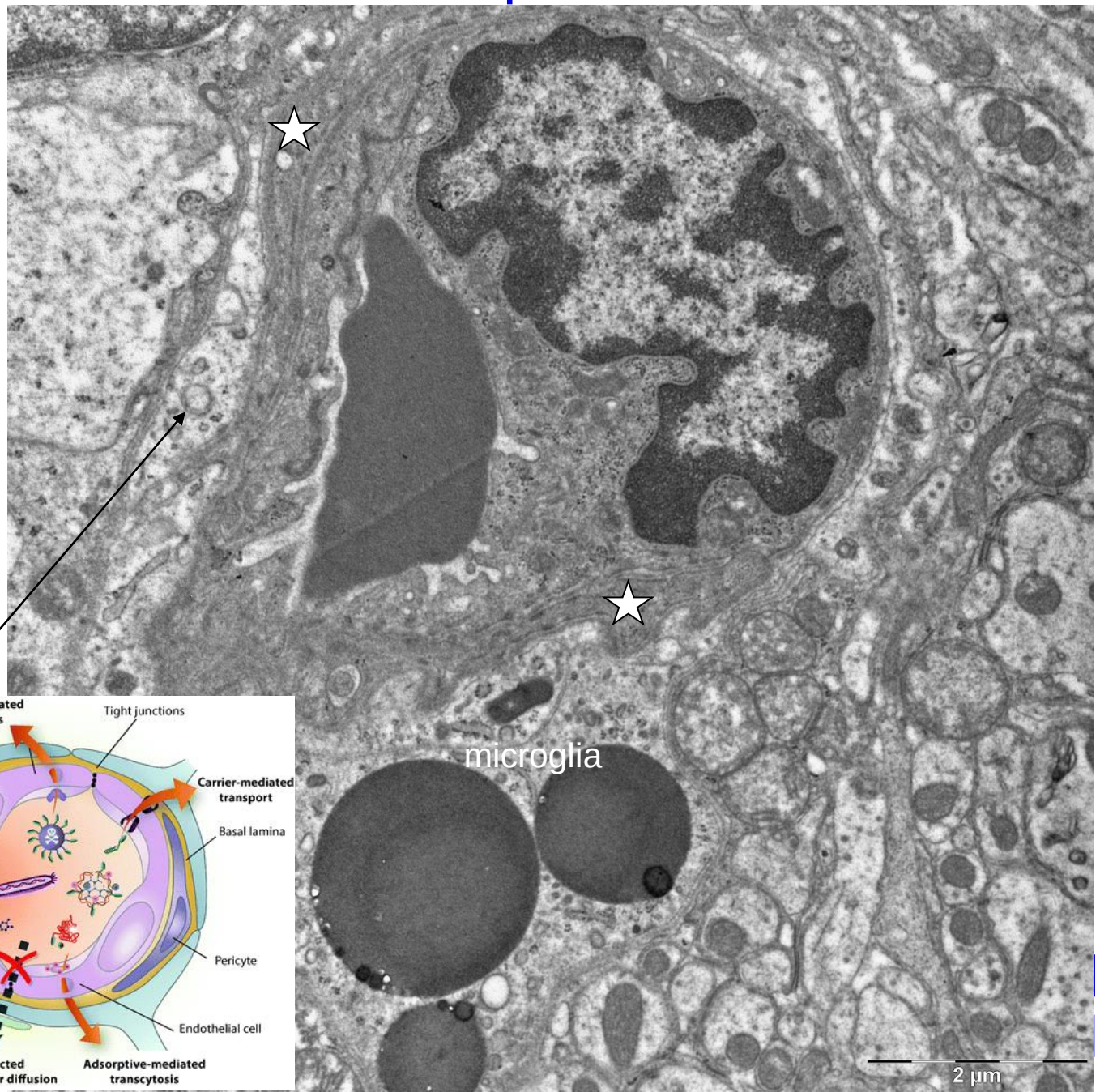


20 µm

NEUROTRANSMITTERS

Hemato-encephalic barrier

☆ pericyte



NERVE TISSUE

Slides:
Pyramidal cell (75, 76. Cortex cerebri)
Purkinje cell (77. Cerebellum)
Nissl substance (78. Cerebellum or 79. Medulla spinalis)
Somatomotoric multipolar neuron (79. Medulla spinalis)
Pseudounipolar neuron (81. Ganglion spinale)
Peripheral nerve (84, 85. Peripheral nerve – cross section)
Peripheral nerve (86, 87. Peripheral nerve – longitudinal section)

Atlas EM:
Neuron – cortex cerebri (3, 48), Purkinje neuron (49)
Oligodendrocyte (50)
Synapse (51)
Hemato-encephalic barrier (52)
Peripheral nerves (53, 54)

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