Histology Slides for Nervous Tissues

- Slides are presented in order of magnification if different view are presented.
- As you view the following slides make sure you can accomplish these goals:
  1. Can you identify the tissue observable on the slides?
  2. Can you identify the specific structures or layers indicates by the numbered arrows or brackets?
- At the end of a sequence you will find the answers to the above for each slide.
Answers to Slides 2 through 7

Slide 2: Smear of gray matter low power.
Slide 3: Smear of gray matter high power.
Slide 4: Longitudinal view of myelinated nerve fibers.
Slide 5: X-section of a nerve low power (Masson stain)
Slide 6: X-section of a nerve high power (Masson stain)
Slide 7: X-section of a nerve high power (H&E stain)

Answers to the numbers:
• Multipolar neuron cell body with nissl bodies, nucleus, and nucleolus.
• Nerve fibers (axons of dendrites)
• Neuroglial nuclei
• Nucleus and nucleolus
• Node of Ranvier
• Epineurium

Answers to Slides 2 through 7

Answers to the numbers:
7. Perineurium
8. Nerve fascicle
9. Endoneurium
10. Myelin sheath
11. Nerve fiber
12. Nucleus of Schwann cells
Answers to Slides 10 through 17

Slide 10 - 16: X-section of spinal cord
Slide 17: Section through Dorsal Root Ganglion

Answers to the numbers:
• Dura mater.
• Arachnoid mater.
• Subarachnoid space.
• Pia mater.
• X-section through white matter.
• Gray matter
• Posterior or dorsal white column
• Anterior or ventral white column
• Lateral white column
• Doral gray horn
• Ventral gray horn

Answers to Slides 10 through 17

Answers to the numbers:
12. Anterior or ventral median fissure
13. Central canal
14. Posterior gray commissure
15. Posterior or dorsal median sulcus
16. Anterior gray commissure
17. Multipolar neuron cell body
18. Transverse nerve fibers
19. X-section through a nerve fiber
20. Myelin sheath created by Oligodendrocytes
21. Sensory neuron cell bodies
22. Longitudinal view of myelinated nerve fibers
23. Nodes of Ranvier
24. Satellite cells