Motivational Corner:

"Patience, persistence and perspiration make an unbeatable combination for success."



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HISTOLOGY CNS PARTICAL



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Thanks you for checking our work, Good luck. -Team histology.



Cervical Spinal Cord

Posterior intermediate

sulcus

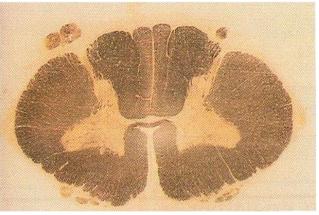
10

1- central canal 2- gray commisure 3- anterior white commisure 4- ventral median fissure 5- anterior white column 6- anterior gray horn 7- lateral white column 8- posterior gray horn 9- cuneate tract 10- gracile tract 11- dorsal median sulcus 12- posterior white column

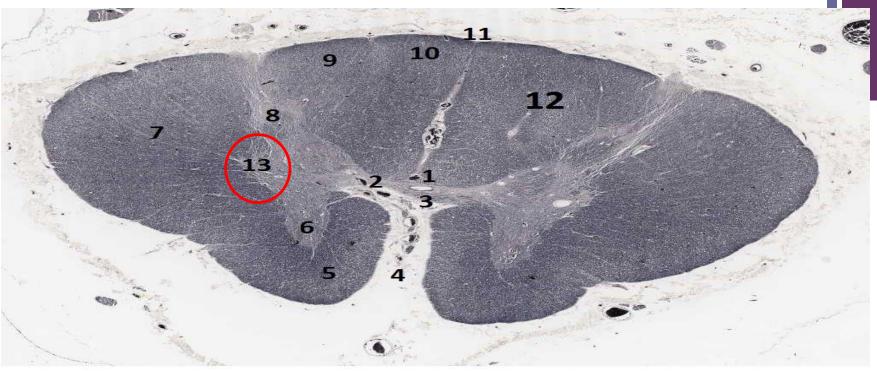
You have to memorize them all

Posterolateral sulcus

- Cervical Spinal Cord
- Features:
- 1. Oval in shape
- 2. Wide ventral horn
- 3. Thin dorsal horn



Thoracic Spinal Cord

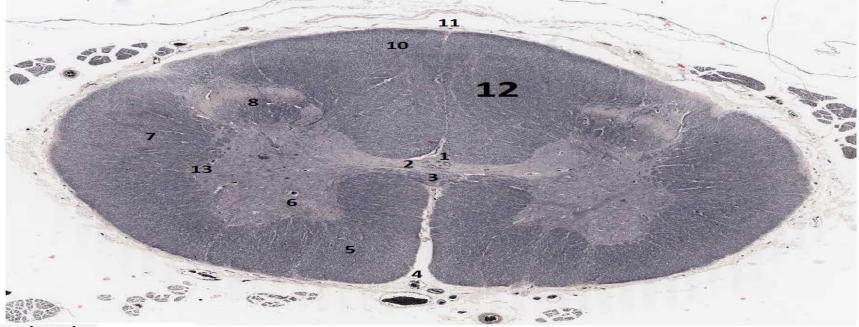


1- central canal 2- gray commisure 3- anterior white commisure 4- ventral median fissure 5- anterior white column 6- anterior gray horn 7- lateral white column 8- posterior gray horn 9- cuneate tract 10- gracile tract 11- dorsal median sulcus 12- posterior white column 13- lateral gray horn You have to memorize them all

Thoracic Spinal Cord

- Feature
- 1. Ventral & Dorsal horns are thin
- 2. It has a lateral horn (13 in picture)

Lumbar Spinal Cord



- 1- central canal
- 2- gray commisure
- 3- anterior white commisure
- 4- ventral median fissure
- 5- anterior white column
- 6- anterior gray horn
- 7- lateral white column
- 8- posterior gray horn
- 9- cuneate tract "not found at this level"
- 10- gracile tract
- 11- dorsal median sulcus
- 12- posterior white column
- 13- lateral gray horn

You have to memorize them all

Lumbar Spinal Cord

• Features:

- 1. Ventral & Dorsal horn are wide
- 2. IT has NO Cuneate Tract

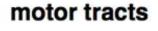
Note: All spinal segment end in L2 in adults

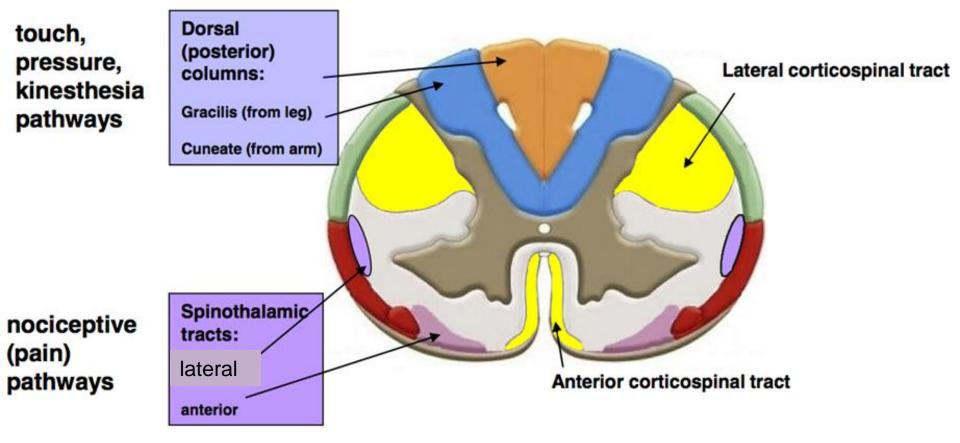




Questions: - Identify the label? - Mention the function of this tract?

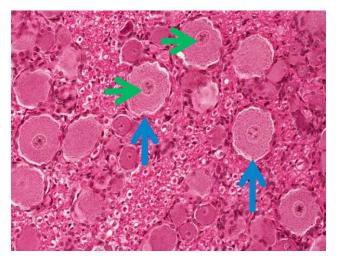




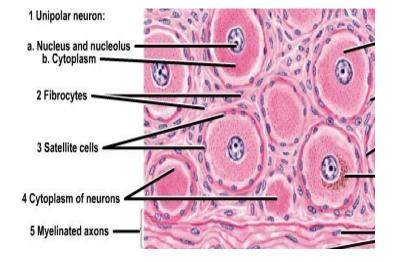


Unipolar (pseudounipolar) Neurons

- Questions:
 - Identify the structure: or What's the type of this neuron?
 - Location:



- Located in :
- 1. Spinal ganglion
- 2. Mesenecephalic nucleus of 5thCN



Contains:

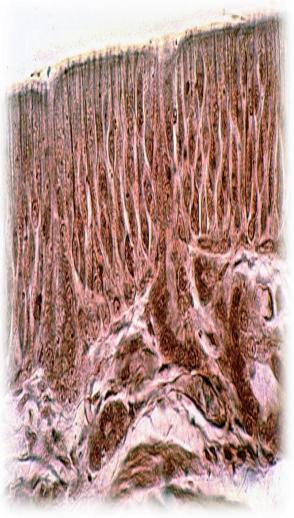
Cell body of Unipolar neurons.
Nucleus and Nucleolus.

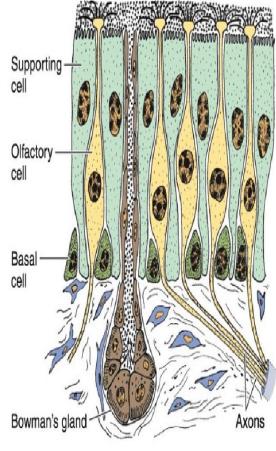
Bipolar Neurons

Located in:

- 1. Olfactory epithelium
- 2. Retina

 Questions:
Identify the structure: or What's the type of this neuron?





Bipolar neurons (in olfactory epithelium) (diagram)

- Location:

Multipolar Neurons

• Questions:

Identify the structure:or What's the type of this neuron? Location:

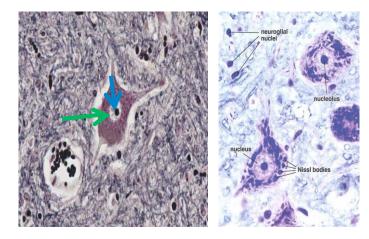
1- Stellate

Located in:

1. Anterior horn cells of spinal cord.

Contains:

Nucleus. Nucleolus. Nissle bodies.



2- Pyramidal

Located in:

1. Cerebrum





Multipolar Neurons



3- Pyriform

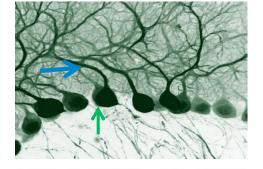
Located in:

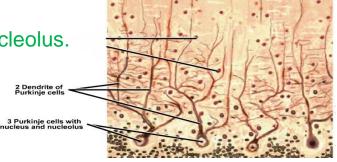
1. Purkinje cells of Cerebellum.

Contains:

1- Purkinje cells with Nucleus & Nucleolus.

2- Dendrites of Purkinje cells.





• Questions:

Identify the structure:
or What's the type of this neuron?

- Location: