

CNS-Histology

Archive

Lecture 1

Spinal Cord

1. In the spinal cord, motor neuron cell bodies are located in:

- A. Lamina I
- B. Lamina II
- C. Lamina V
- D. Lamina IX
- E. Lamina X

Answer: D. Lamina IX

2. Are multipolar and conduct impulses out of the brain or spinal cord:

- A. Motor neurons.
- B. Sensory neurons.
- C. Interneurons.
- D. Microglia.
- E. Neuroglial cells.

Answer: A. Motor neurons.

3. As per grey matter, one of the following is correct:

- A. It contains myelinated axons, few unmyelinated axons and neuroglia.
- B. It contains bodies of nerve cells, dendrites, myelinated axons and neuroglia.
- C. It contains bodies of nerve cells, dendrites, unmyelinated axons and neuroglia.
- D. It is a group of nerve fibers, ascending and descending ones.
- E. It is a group of axons which arise from the same origin and terminate at the same site.

Answer: C. It contains bodies of nerve cells, dendrites, unmyelinated axons and neuroglia.

4. As per pia matter, one of the following is correct:

- A. It is in a direct contact with the neural tissue.
- B. Alone, it forms a physical barrier separating CNS tissue from CSF.
- C. It is the outermost meninx.
- D. It is separated from the neural tissue by astrocytic processes.
- E. It is a sheet of connective tissue in contact with the dura matter.

Answer: D. It is separated from the neural tissue by astrocytic processes.

الأسئلة التالية هي أرشيف سابق وهي لا تتعلق بشكل مباشر مع المحاضرات السنة الحالية

1. Aligns along axons and provide insulating layers of myelin in the brain and spinal cord:

- A. Microglia.
- B. Astrocytes.
- C. Ependymal cells.
- D. Oligodendrocytes.
- E. Schwann cells.

Answer: D. oligodendrocytes.



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Lecture 2

Spinal cord

Corrected By :

Mohammed
aldahamsha

1. ___ motor neuron starts in the spinal and innervate muscles

- a . Upeper motr neuron
- d . Lower motor neuron

Answer: d

2. About lateral corticospinal tract, which of the following is incorrect

- a. crossed
- b. Contralateral dorsal quadrant of the lateral funiculus of the spinal cord
- c. Smaller than ventral corticospinal tract
- d. Arises from lamina V of the cerebral cortex

Answer: c

3. All of the following tracts are ASCENDING except?

- a. Dorsal column-medial lemniscus
- b. Ventral spinothalamic tract
- c. Lateral spinothalamic tract
- d. dorsal spinothalamic tract
- e. Cuneocerebellar tract

Answer:d

4. About tracts first order neuron, which of the following is

- a. Ventral spinocerebellar tract → DRG of T1-S2 ✓

Answer:a

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Lecture 3

Brain stem

Corrected By :

Mohammed
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1 . facial colliculus found at:

Lower level of pons

2.Nuclei called Dieters

Lateral vestibular n



Medical card .

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lecture 4

Brain stem 2

corrected by:
Raneem Bashtawi

1) which one is correct about gray matter:

- a. myelinated axons & few unmyelinated axons and neuroglia
- b. bodies of nerve cells, dendrites, unmyelinated axons and neuroglia
- c. bodies of nerve cells, dendrites, myelinated axons and neuroglia

Answer: b

2) on the level of inf. Colliculus; we found:

- a. The aqueduct is surrounded with quadrangular area of grey matter
- B. Red nucleus at the mid
- c. 3 lemnisci present
- D. Dorsal & ventral decussation

answer: a

3) Third layer of superior colliculus:

- A) stratum zonale
- B) stratum griseum superficiale
- C) stratum opticum
- D) stratum griseum mediale

answer: c

4) One is True about Inferior colliculus:

- Aqueduct is surrounded with quadrangular area of grey matter

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Lecture 5

Cerebrum

Medical card

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Gender _____

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Corrected By :

X

1. What is CORRECT related to Martinotti Cell?

- A) They have very short many dendrites
- B) large spindle neurons present mainly in deepest layers
- C) their axons extend towards the surface and bifurcate to forming synapse with pyramidal
- D) they send excitatory signals

Answer: C

2. Axons of the largest pyramidal cells supplying the digits arise from:

- A) Betz cells
- B) Pyramidal cells
- C) Stellate cells
- D) Granule cells
- E) Purkinje cells

Answer: A

3. Which of the following best describes the characteristics of the cerebral cortex in the motor area?

- A) Contains two types of neurons and has six distinct layers.
- B) Primarily composed of granule cells and lacks distinct layers.
- C) Contains only one type of neuron and has three distinct layers.
- D) Primarily involved in sensory processing and contains four distinct layers.
- E) Contains only inhibitory neurons and lacks a clear layered structure.

Answer: A

4. In which layer of the cerebral cortex are BITZ cells primarily found?

- A) Internal pyramidal layer
- B) External pyramidal layer
- C) Granule cell layer
- D) Molecular layer
- E) None of the above

Answer: A

5. What is the most important component of BBB?

- A) continuous basement membrane
- B) fenestrated endothelial cells
- C) Astrocytes send processes called end-feet
- D) Glia limitans perivascularis
- E) Tight junctions between endothelial cells

Answer: E

6. In which layer of the cerebellar cortex is the outer band of Baillarger located?

- A) Molecular layer
- B) Granule cell layer
- C) Internal granular layer
- D) Purkinje cell layer
- E) None of the above

Answer: C

7. Supragranular layers of the cerebral cortex typically include which of the following layers?

- A) Layers I, II, III
- B) Layers II and III
- C) Layers III and IV
- D) Layers IV and V
- E) Layers V and VI

Answer: A

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Lecture 6

Cerebellum

Corrected By :

X

1. Dendrites of Purkinje cells are primarily found in which layer of the cerebellar cortex?

- A) Granule cell layer
- B) Molecular layer
- C) Purkinje cell layer
- D) Internal granular layer
- E) External granular layer

Answer: B

2. Which of the following best describes a characteristic feature of Purkinje cells?

- A) Short axons and few dendrites
- B) Long axons that project to the spinal cord
- C) Extensive dendritic arborization
- D) Primarily located in the cerebral cortex
- E) Lack of synaptic connections

Answer: C

3. Which type of neuron constitutes the largest proportion of neurons in the brain?

- A) Pyramidal cells
- B) Purkinje cells
- C) Granule cells
- D) Interneurons
- E) Astrocytes

Answer: C

4. Which of the following statements about mossy fibers in the cerebellum is incorrect?

- A) Mossy fibers are excitatory.
- B) Mossy fibers form synapses with granule cells.
- C) Mossy fibers constitute the majority of efferent connections from the cerebellum.
- D) Mossy fibers originate from various sources, including the spinal cord and brainstem.
- E) Mossy fibers play a crucial role in cerebellar function.

Answer: C

5. Which of the following does NOT share in the formation of cerebellar glomeruli?

- A) Golgi cell axon
- B) Golgi cell dendrite
- C) Granule cell dendrite
- D) Granule cell axon
- E) Mossy fiber terminals

Answer: D

6. Which of the following cell types is NOT typically found in the Purkinje cell layer of the cerebellum?

- A) Candelabrum cells
- B) Unipolar brush cells
- C) Stellate cells
- D) Purkinje cells
- E) Granule cells

Answer: A

