

Johns Hopkins Engineering

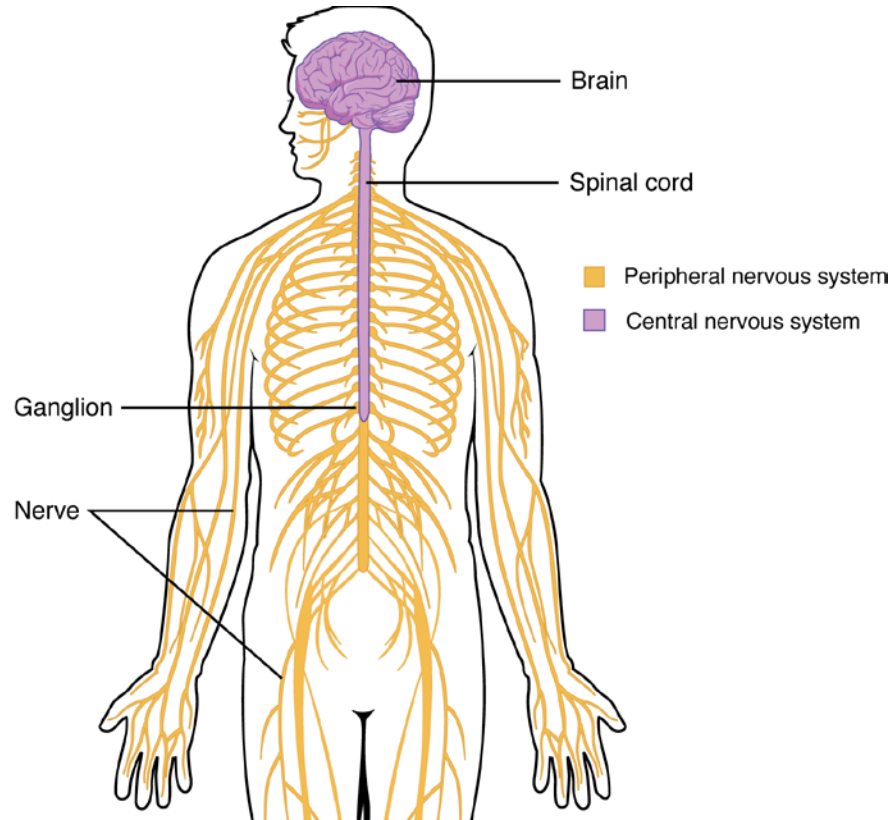
Methods in Neurobiology

The Central Nervous System

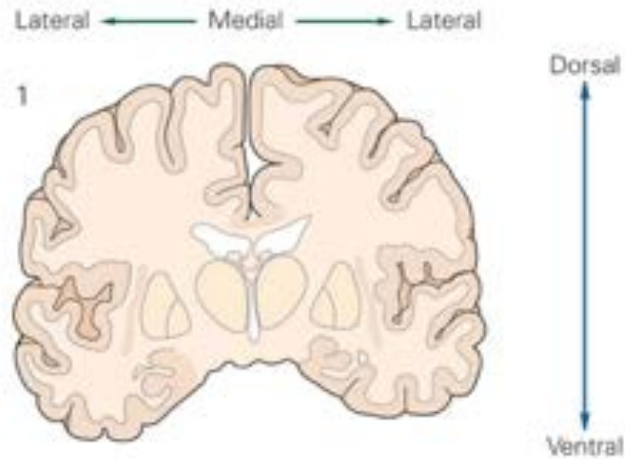
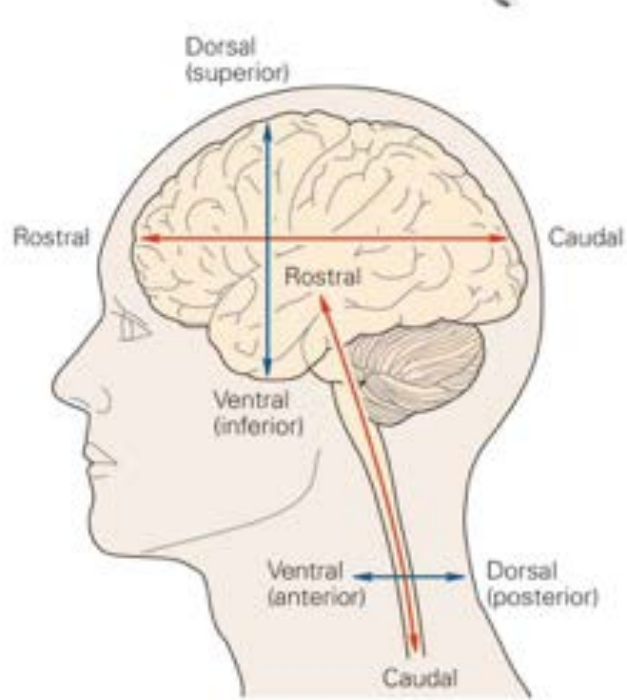


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The central nervous system

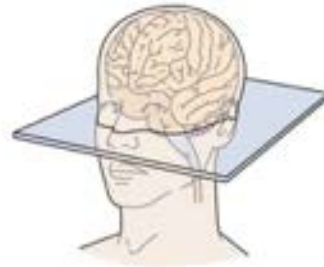


Brain topography



Section planes

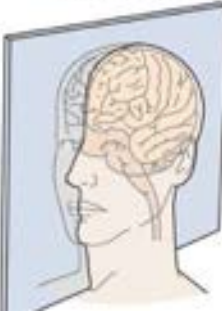
Horizontal plane



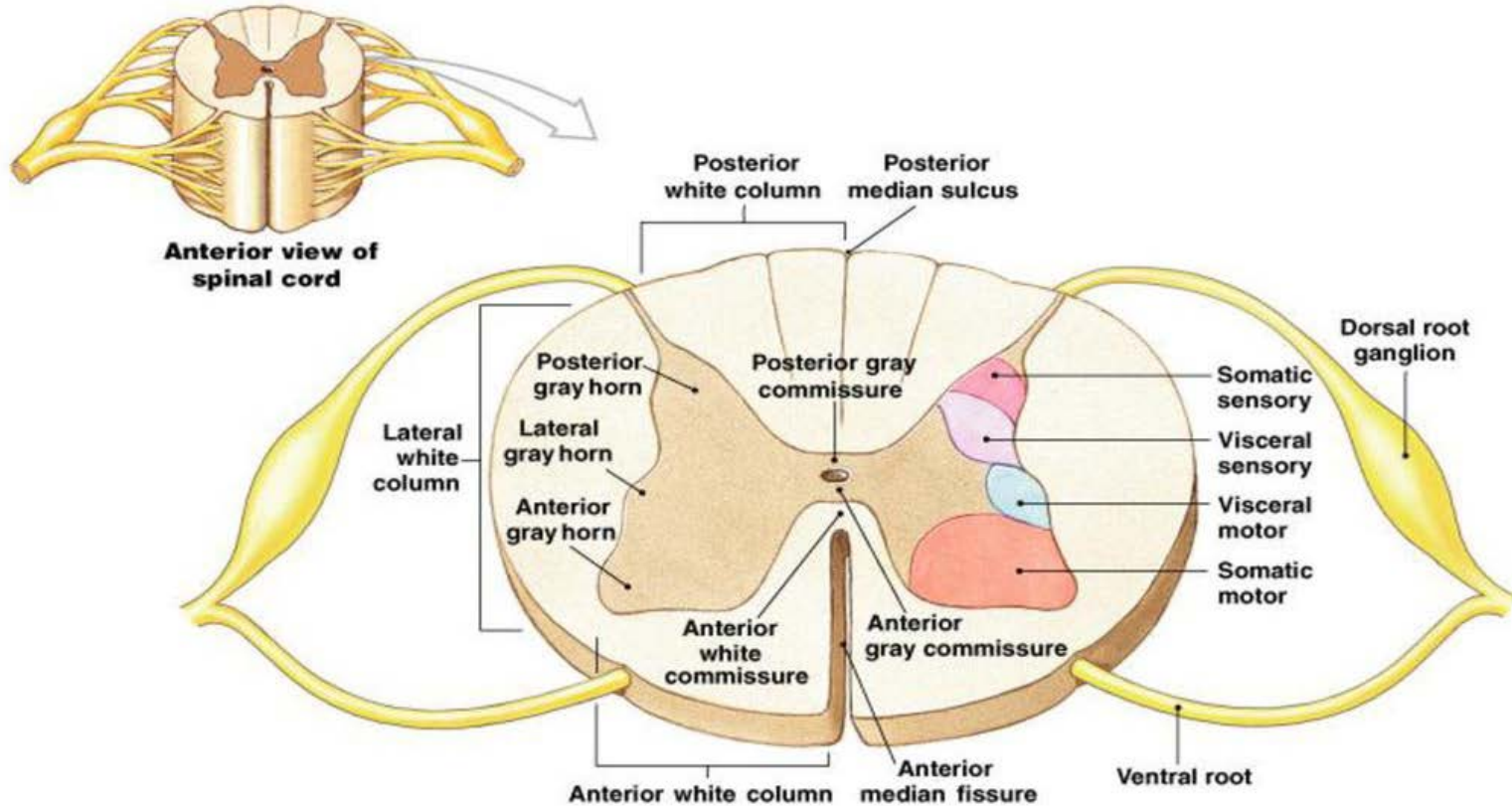
Coronal plane



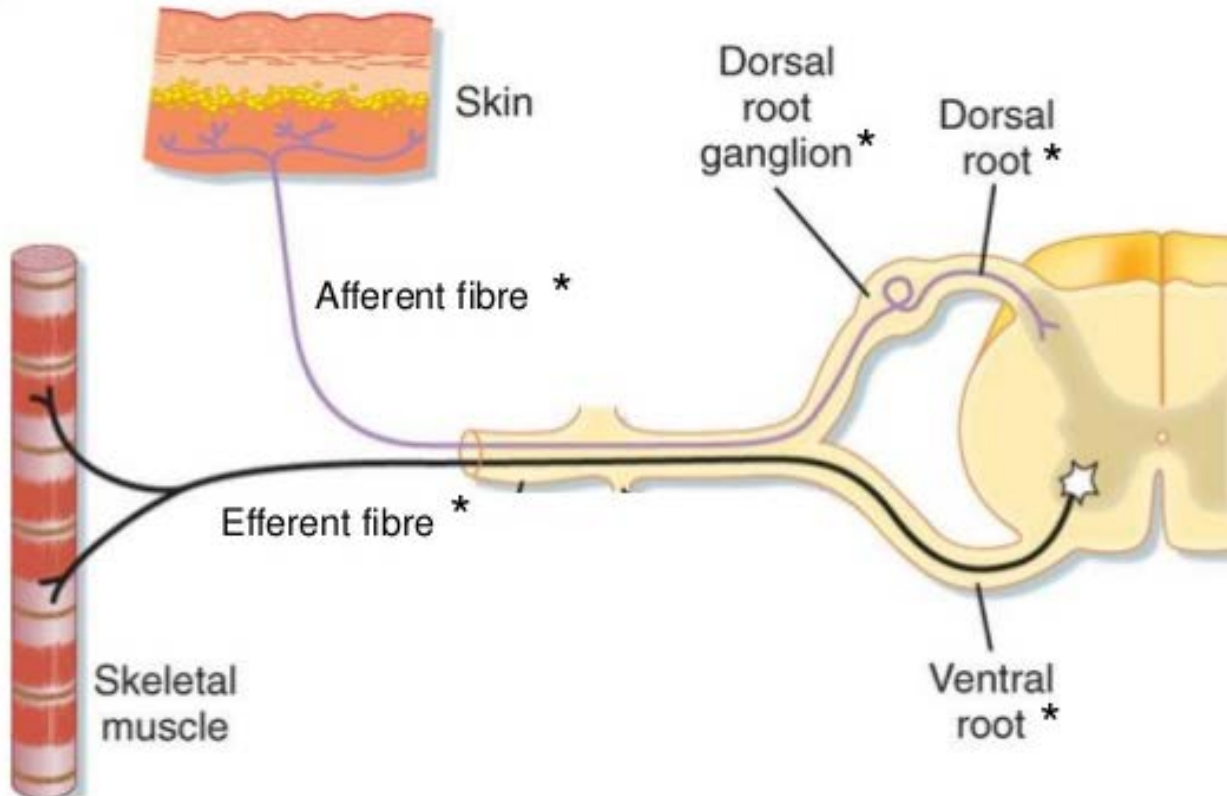
Sagittal plane



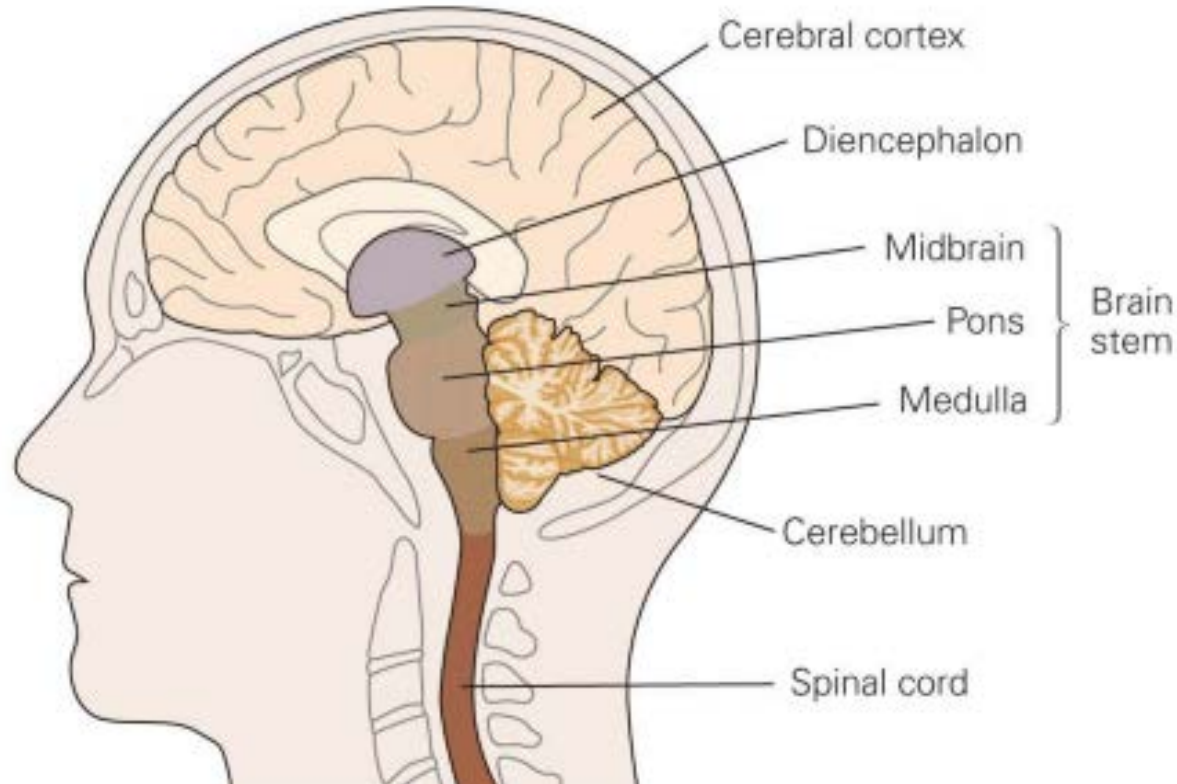
The spinal cord



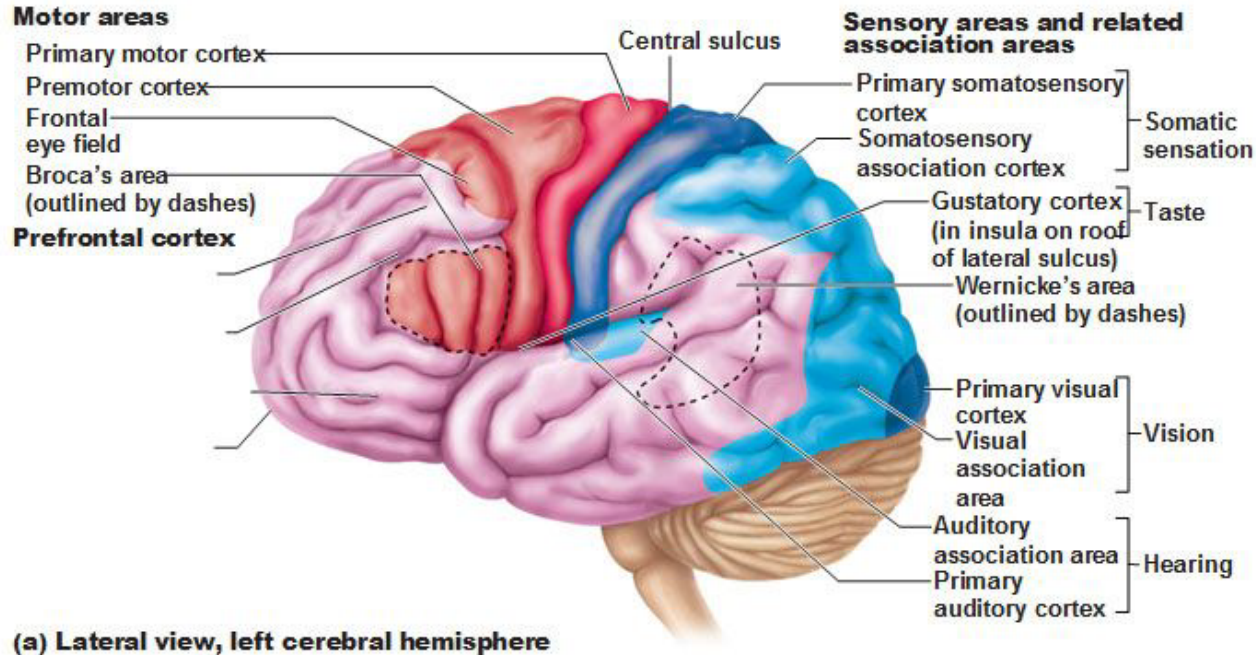
The spinal cord



Brain macro areas and function

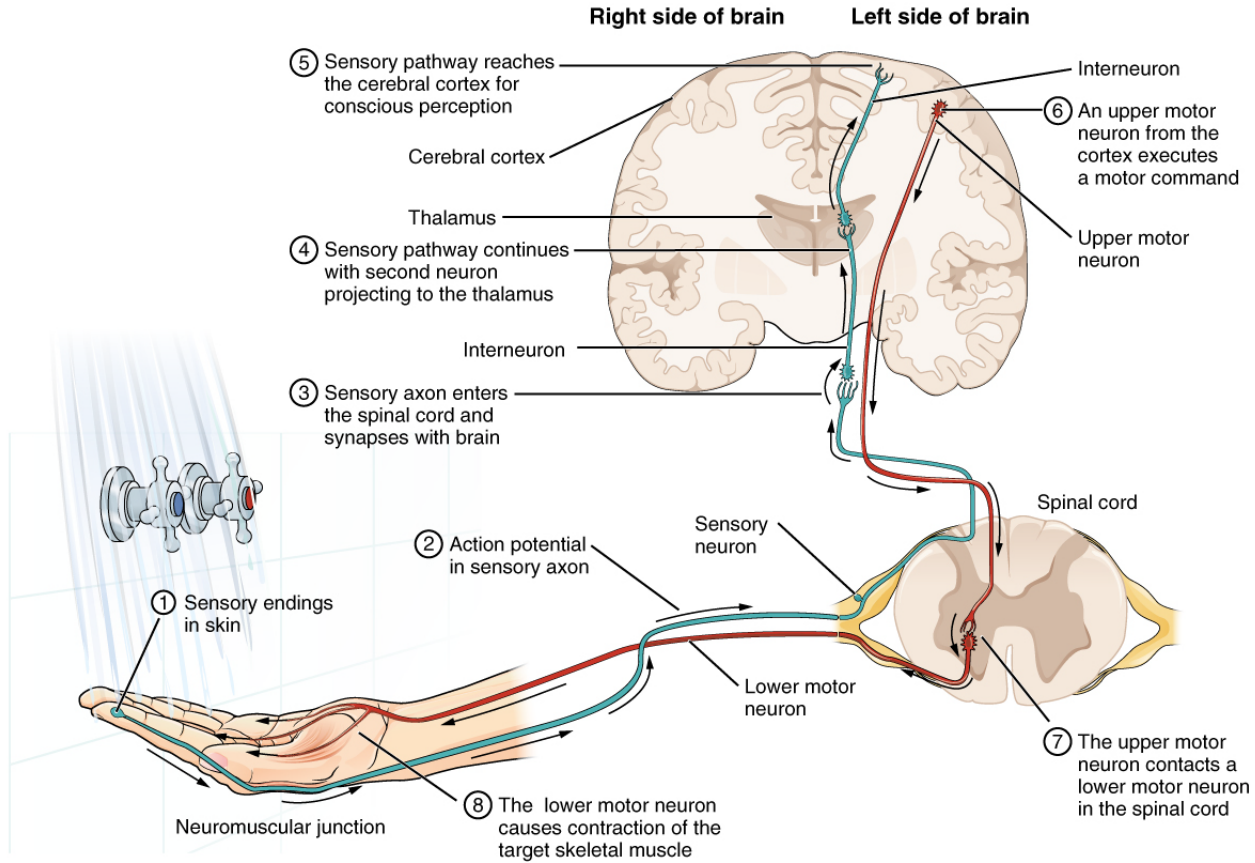


Functional areas of the Cerebral Cortex

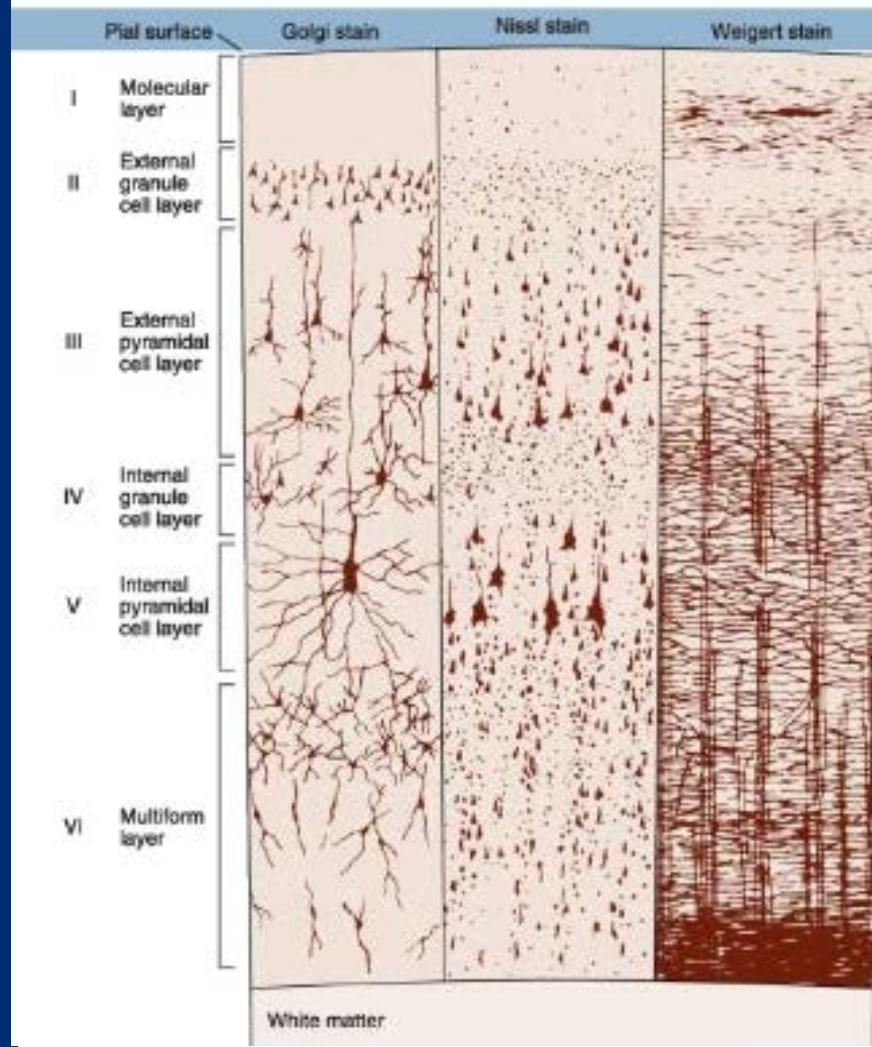


Connection between lobes

Functional integration of the nervous system



Anatomic organization of the Cortex



Connection specificity
Neural Map
Hierarchical organization

Functional areas of the Cerebral Cortex

Broadman organization

References

Slide	Reference
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3,6	Kandel, E., Schwartz, J.H., Jessel, T. 2000 Principle of neural science. 4 th Edition. McGraw-Hill Medical
4	Lecture 14 Spinal cord (n.d) Slide Player https://slideplayer.com/slide/14440023/
5,7,8	Egri, C., 2012 Organization of the nervous system. Slide Share https://www.slideshare.net/CsillaEgri/organization-of-the-nervous-system-43389693
9	Zilles, C. 2018 Brodmann: a pioneer of human brain mapping—his impact on concepts of cortical organization. Brain 141: 3262-3278.



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