

CEREBELLUM

D.HAMMOUDI.MD

CEREBELLUM

Function: adjusting posture (semi-conscious, via red nucleus), program/fine tune voluntary & involuntary movements. Is *ipsilateral*

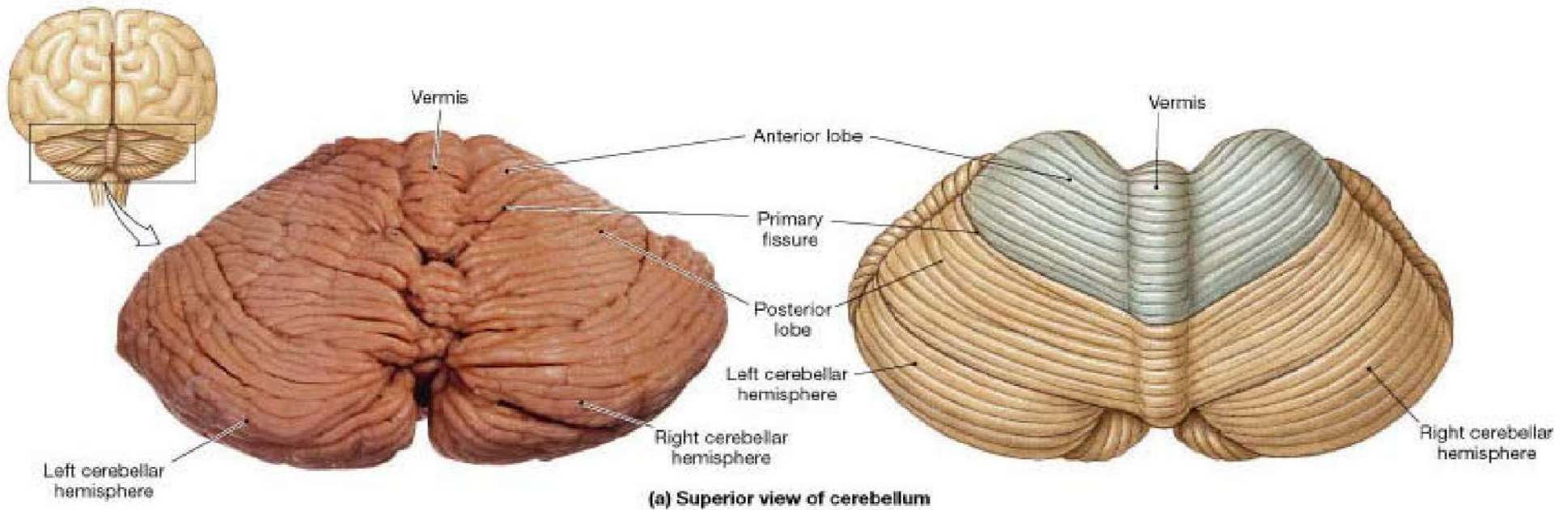
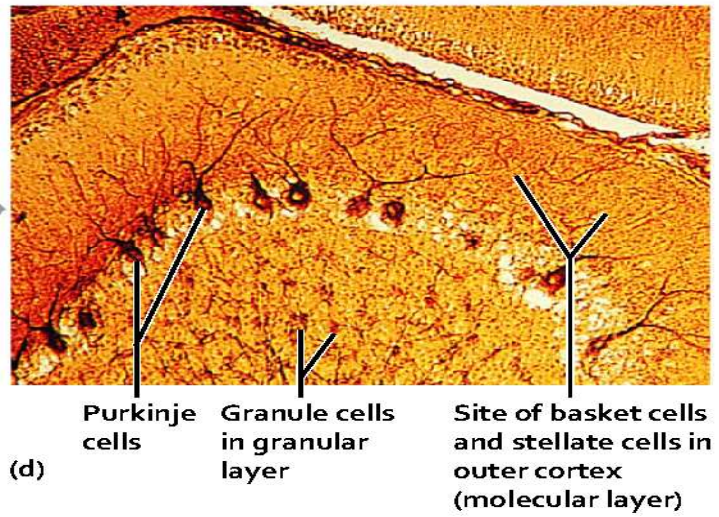
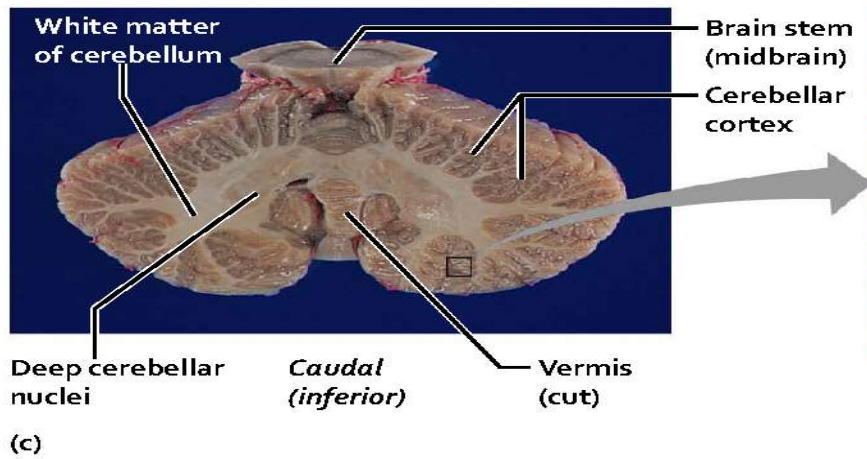
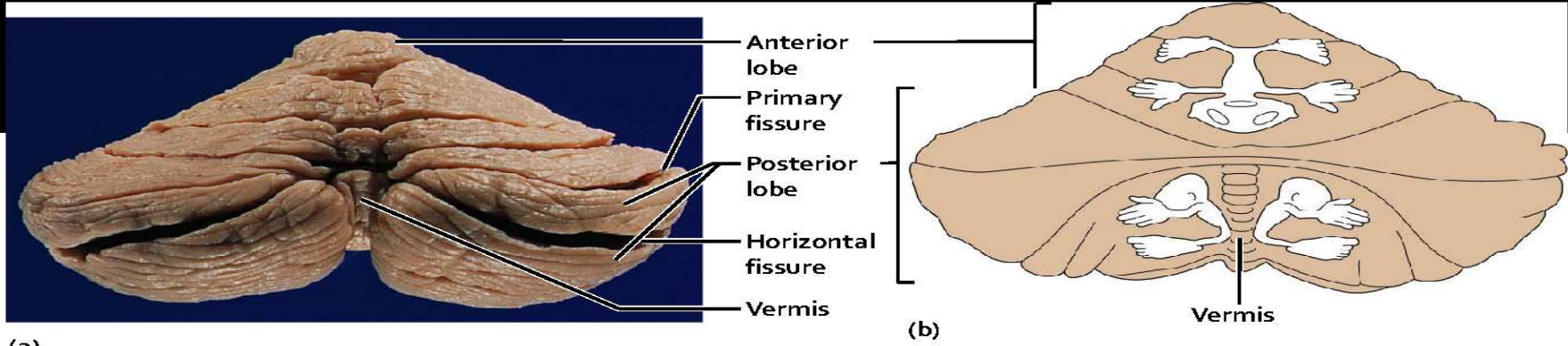


Figure 12.17: Cerebellum, p. 452.



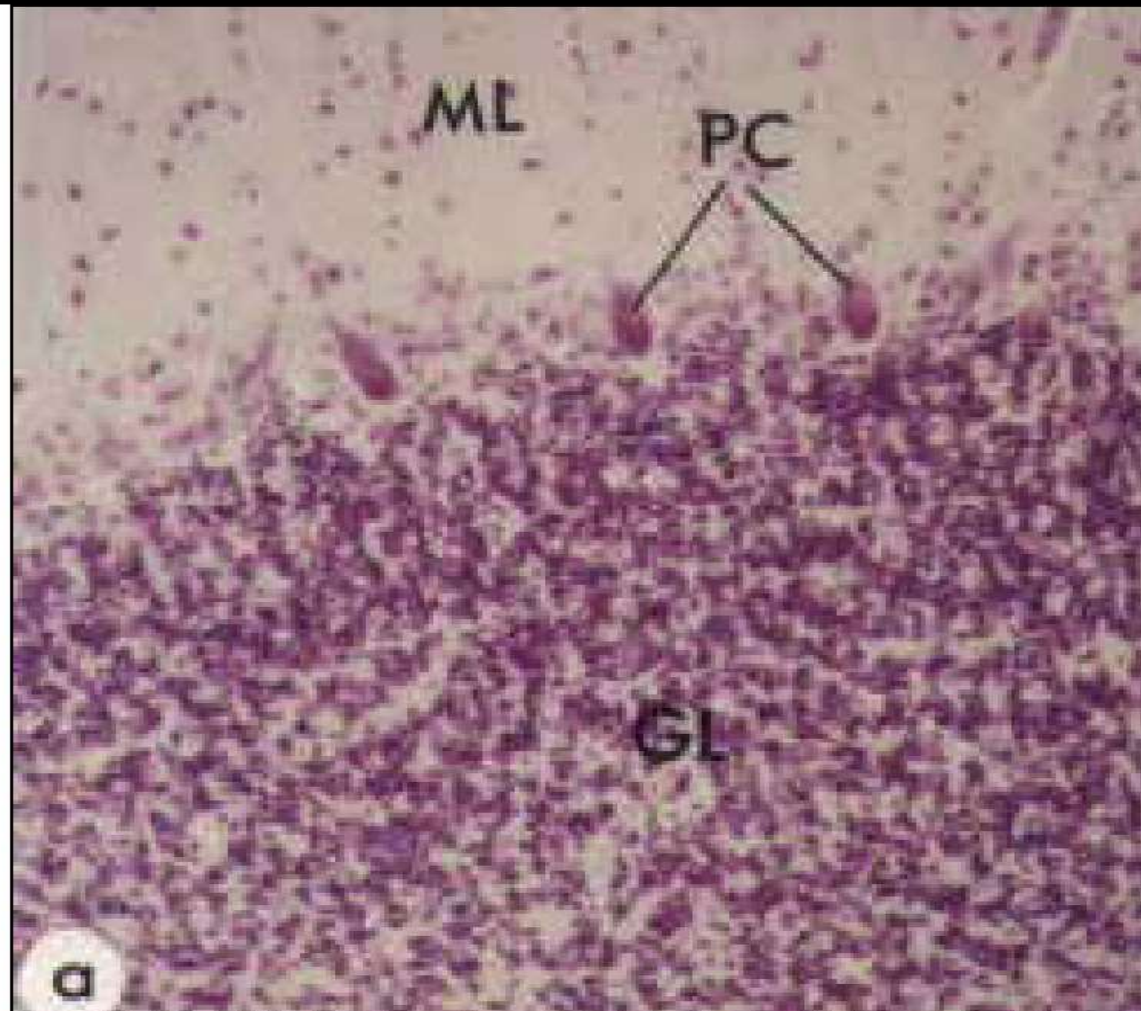
Cerebellum

Histology Lab Part 6: Slide 28

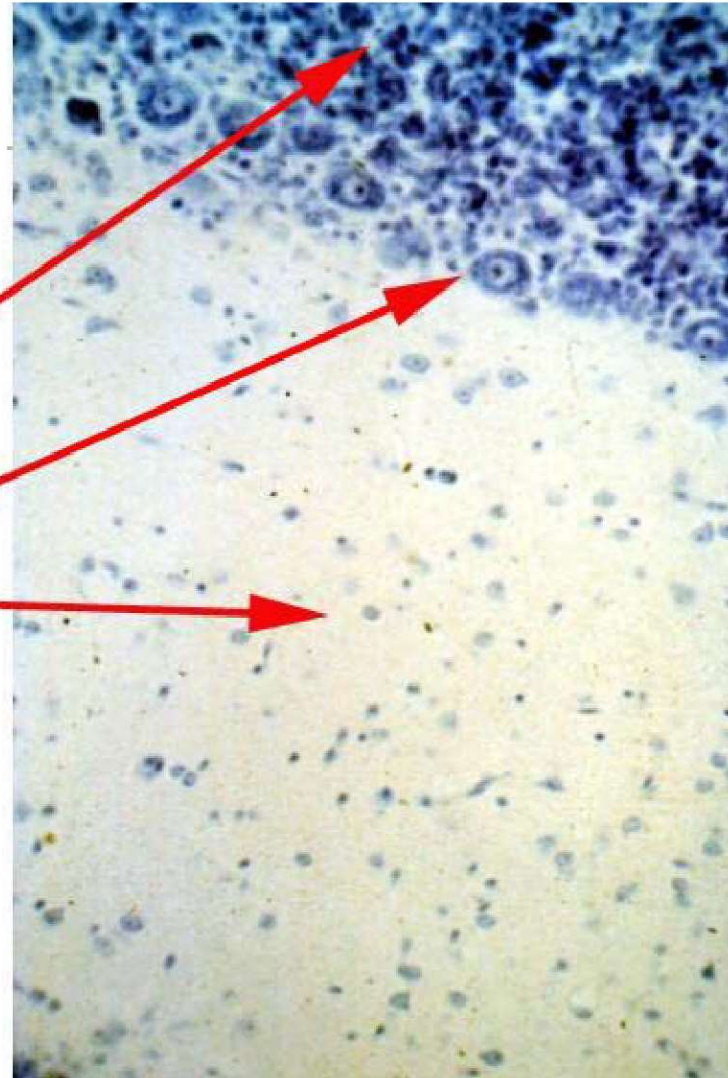


Cerebellum

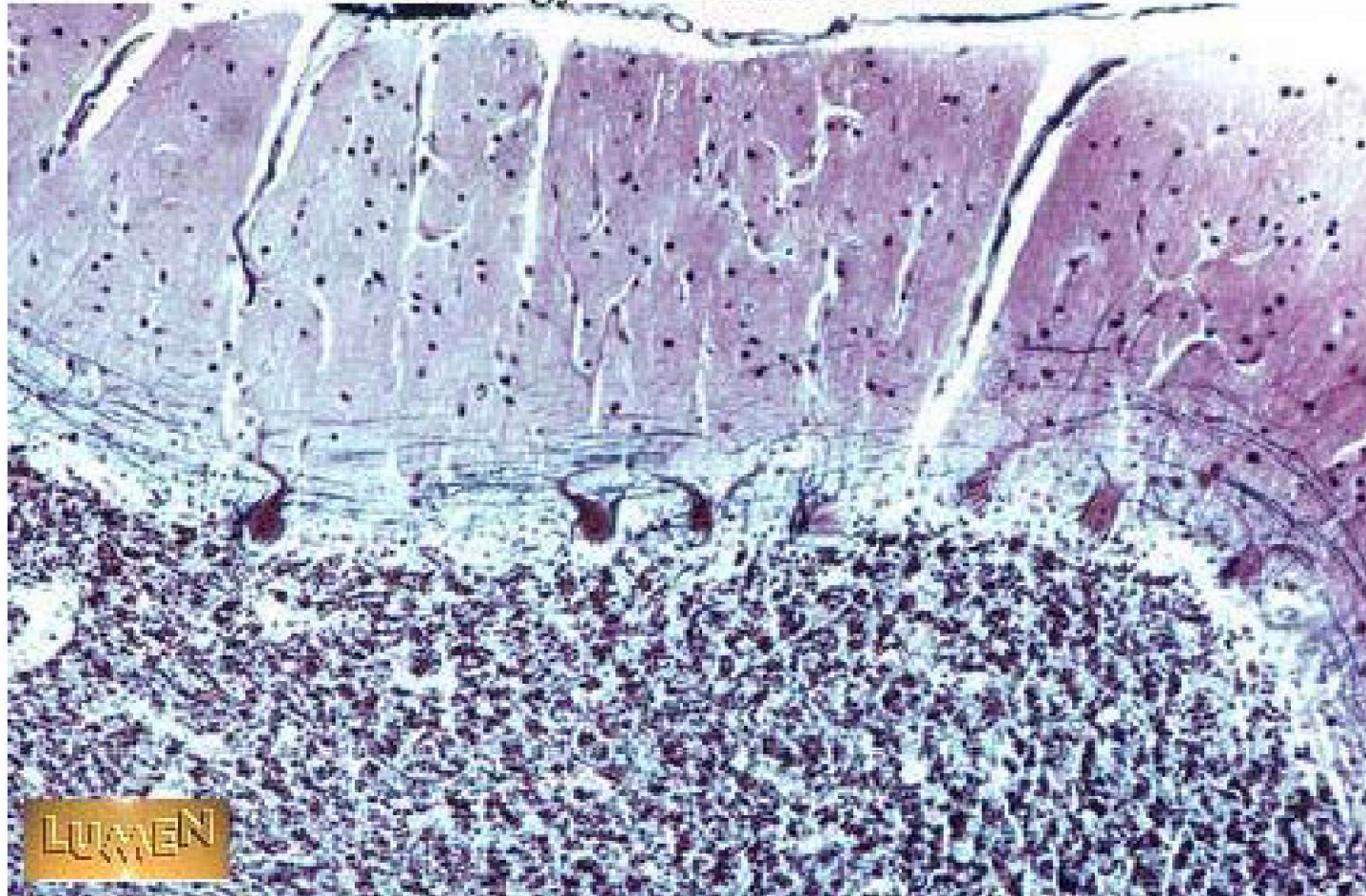
- Cerebellar cortex consists of 3 layers
- Outer molecular (ML) – few neurons but abundant neuronal processes
- Inner granular layer (GL) with many densely packed granular cells
- Layer of Purkinje cells



- Layers in the cerebellar cortex
 - Granule layer
 - Purkinje cell layer
 - Molecular layer

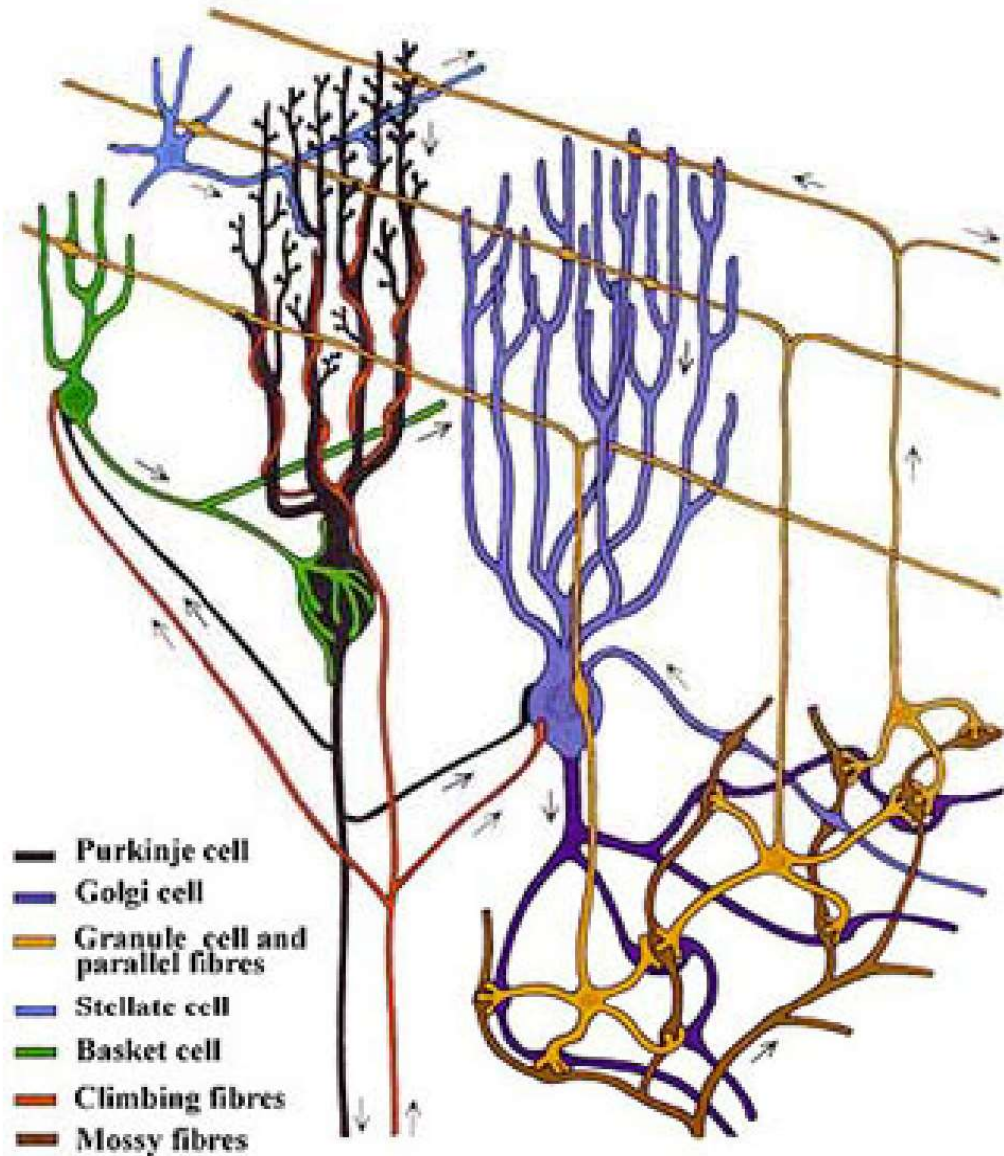
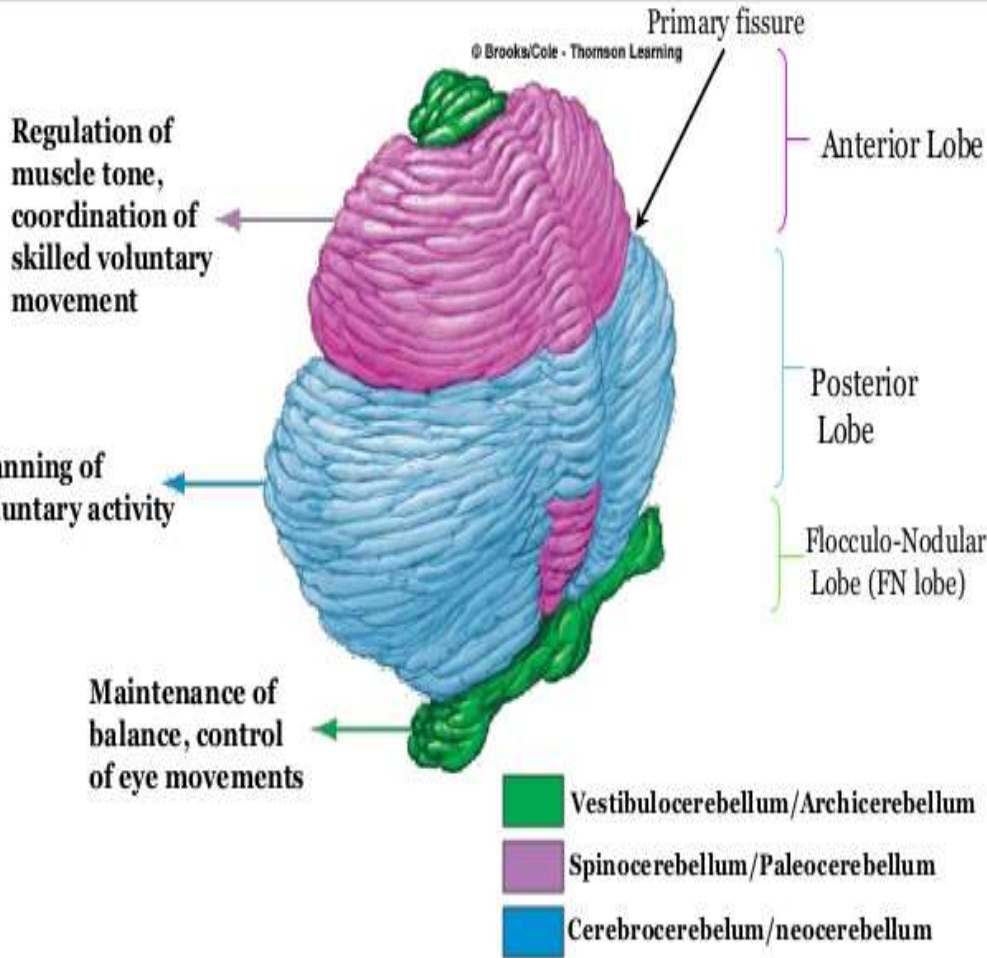


Histology Lab Part 6: Slide 29



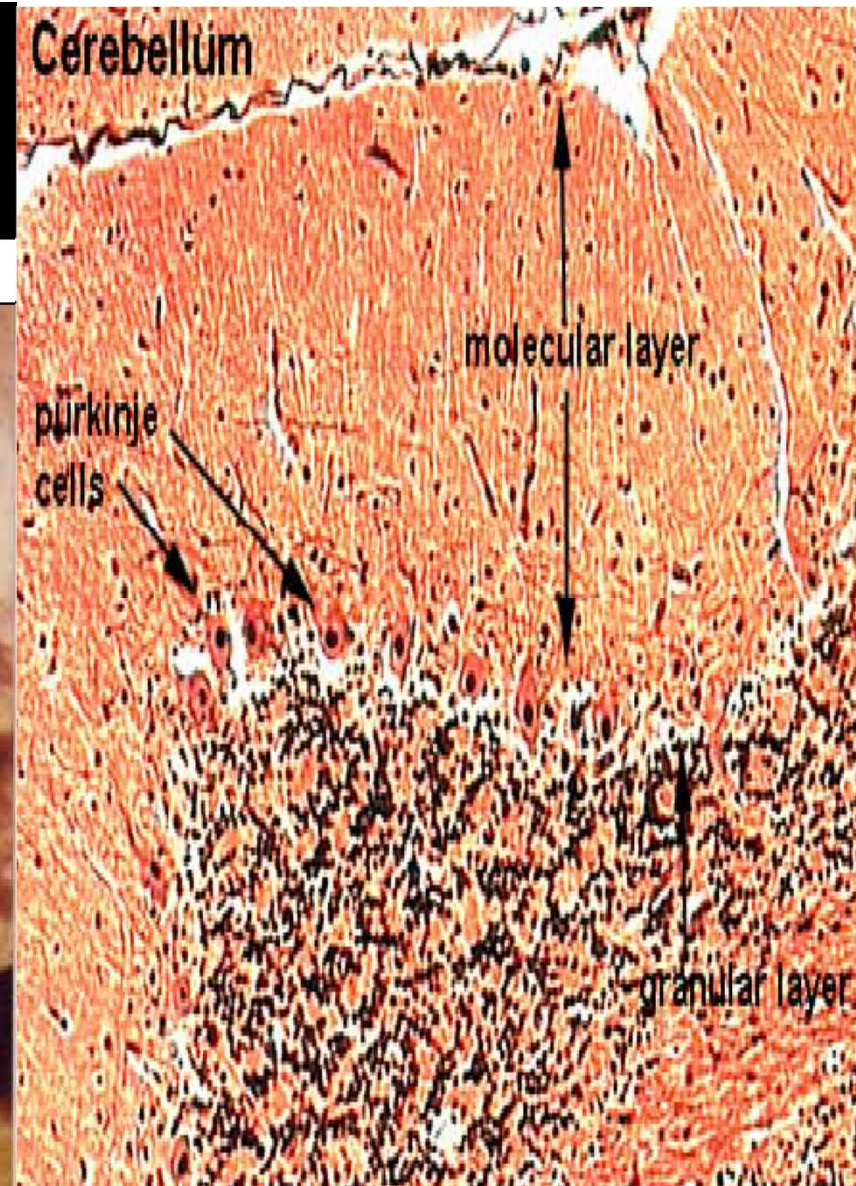
Functional and phylogenetic subdivision

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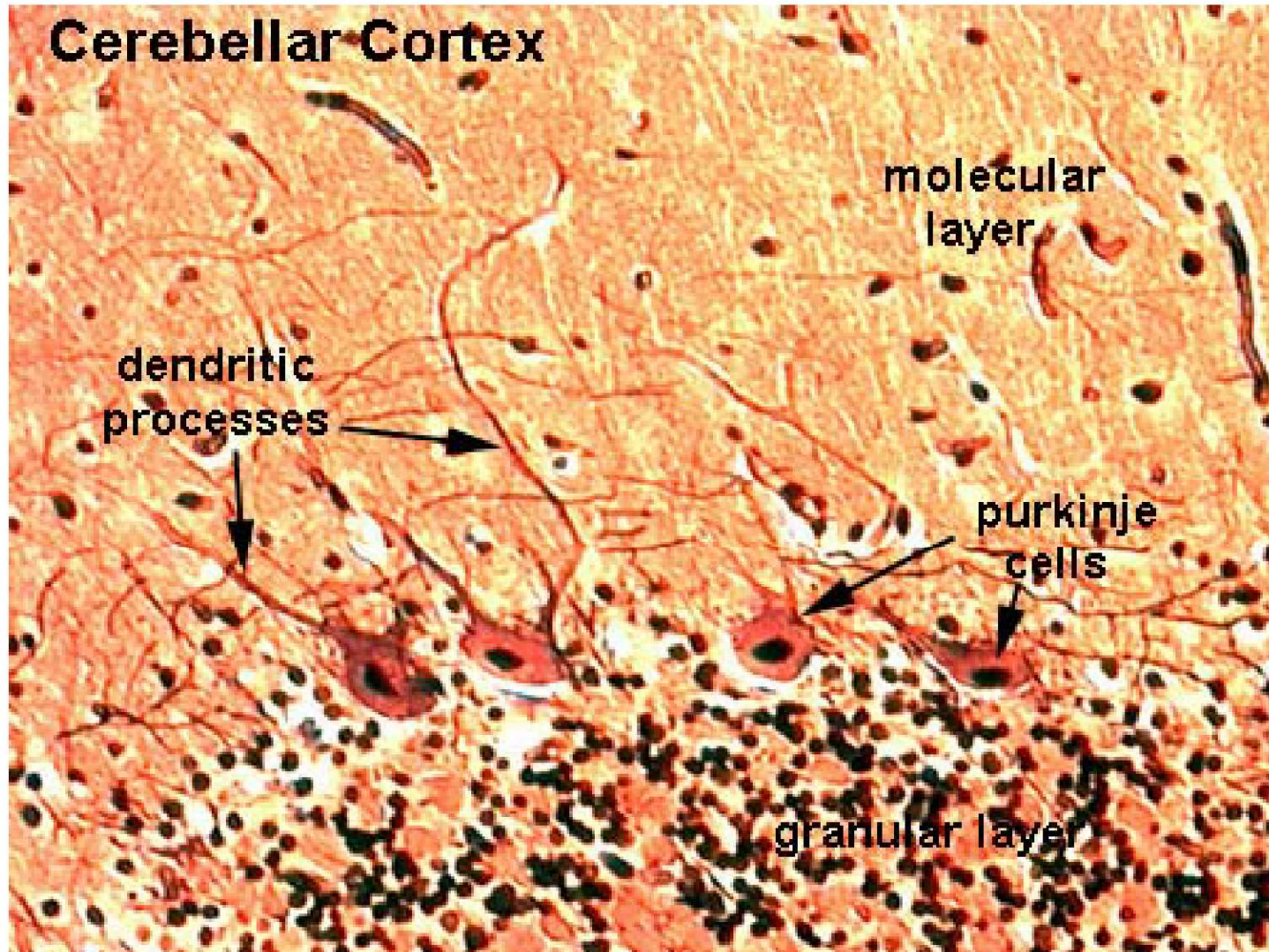


Cerebellum – Purkinje Cells

- Purkinje cell with elaborate dendritic tree
- Initial branches are larger & smooth with later (tertiary) branches spinous



Cerebellar Cortex



Golgi stain of Purkinje cell

