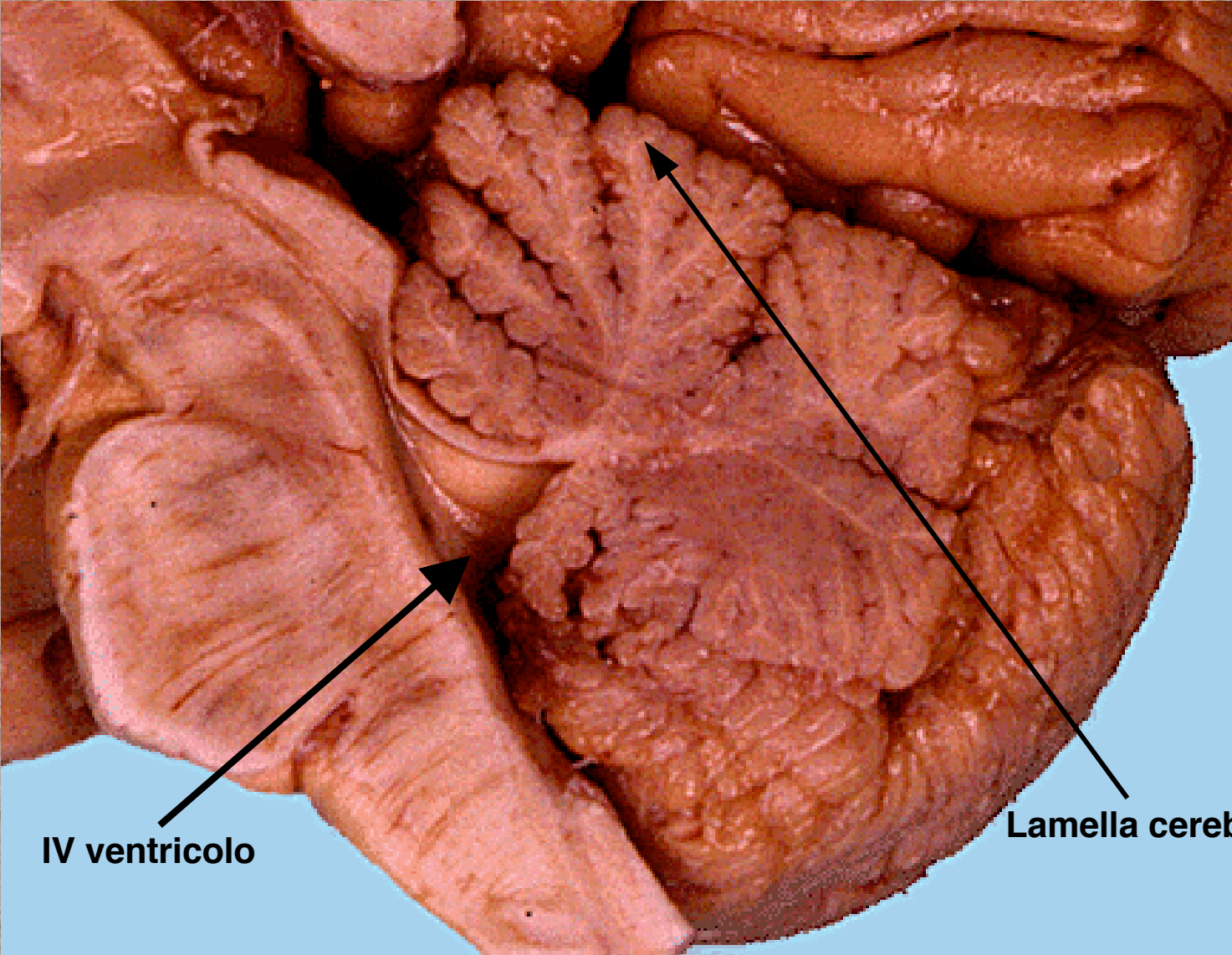


# **Cervelletto**



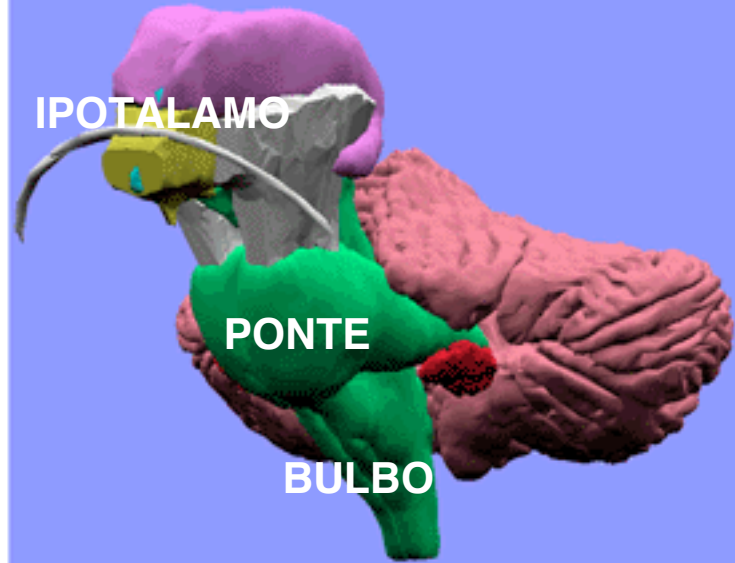
**IV ventricolo**

**Lamella cerebellare**

**TALAMO**



**IPOTALAMO**

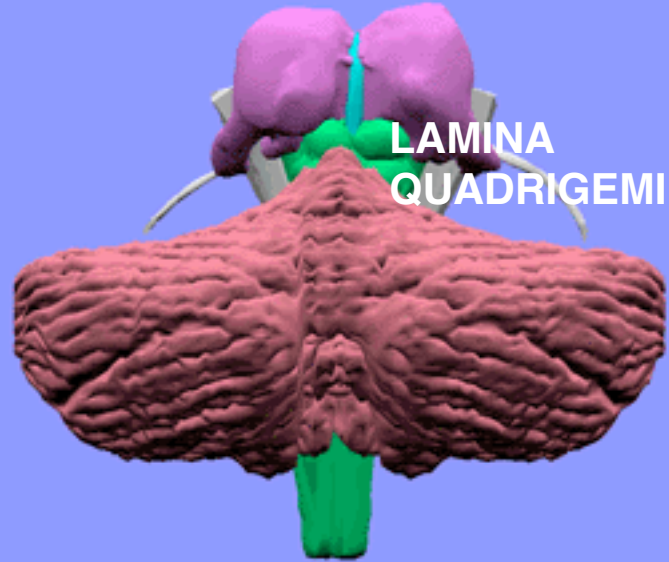


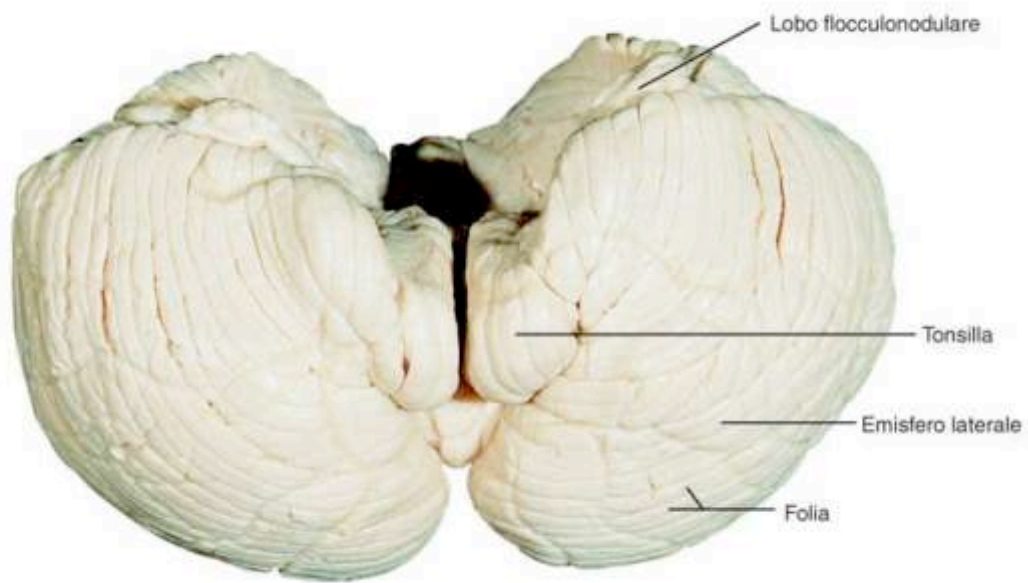
**PONTE**

**BULBO**

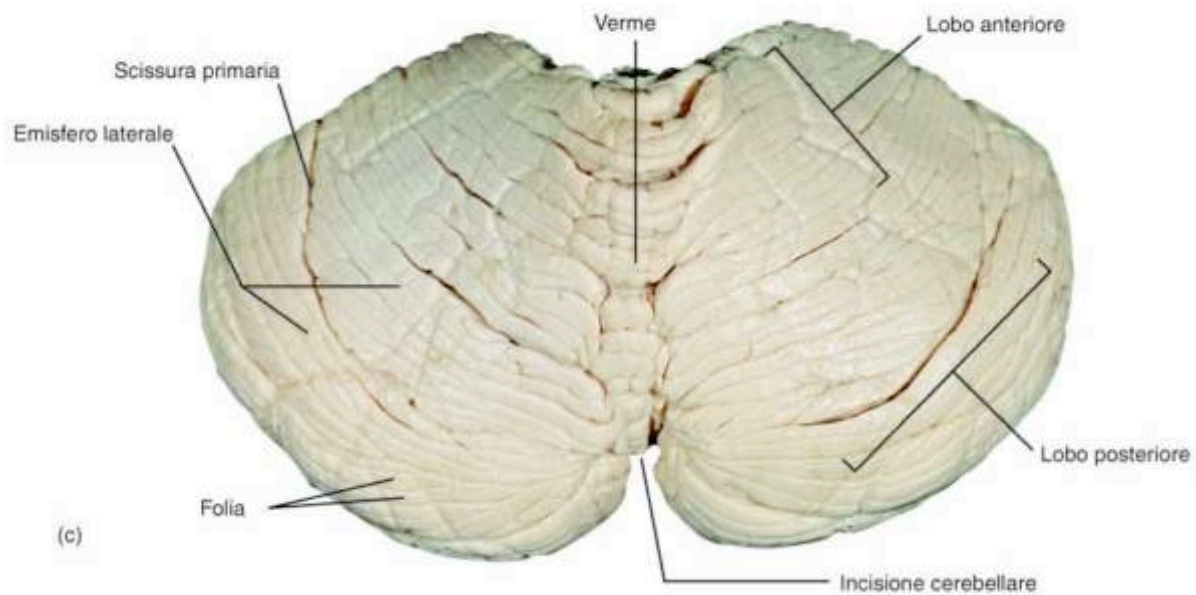


**LAMINA  
QUADRIGEMINA**





(b)

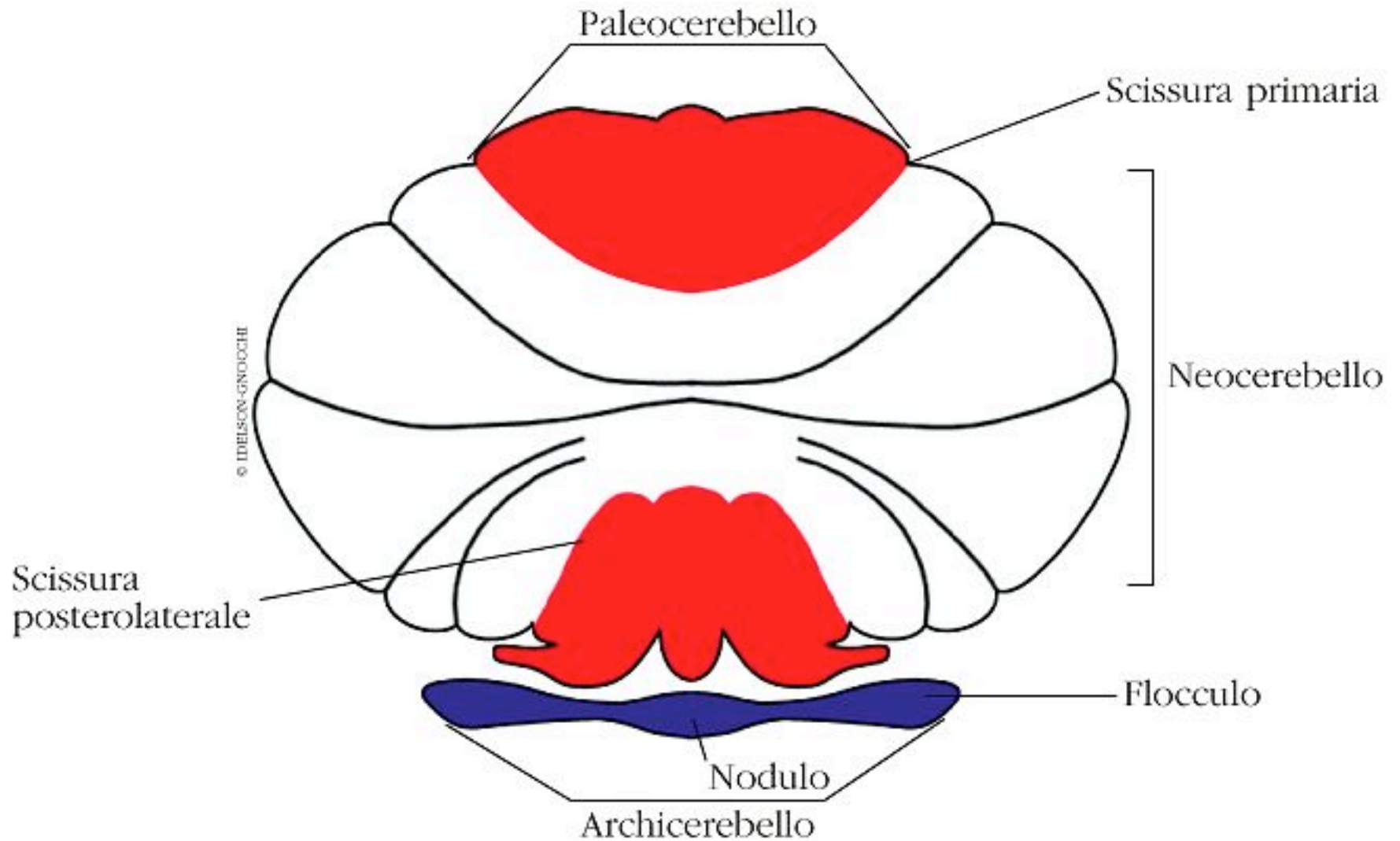


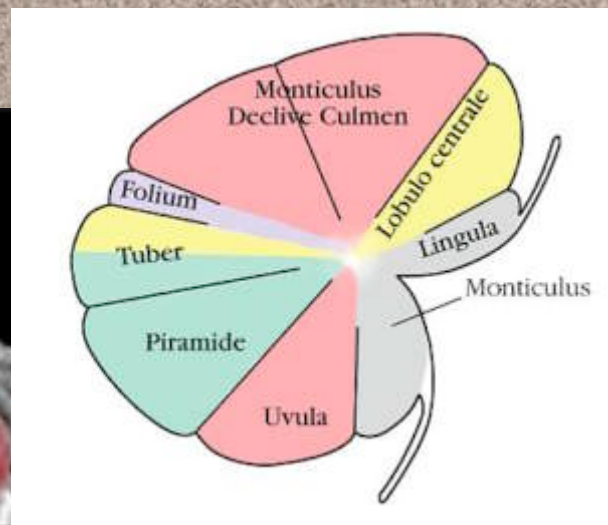
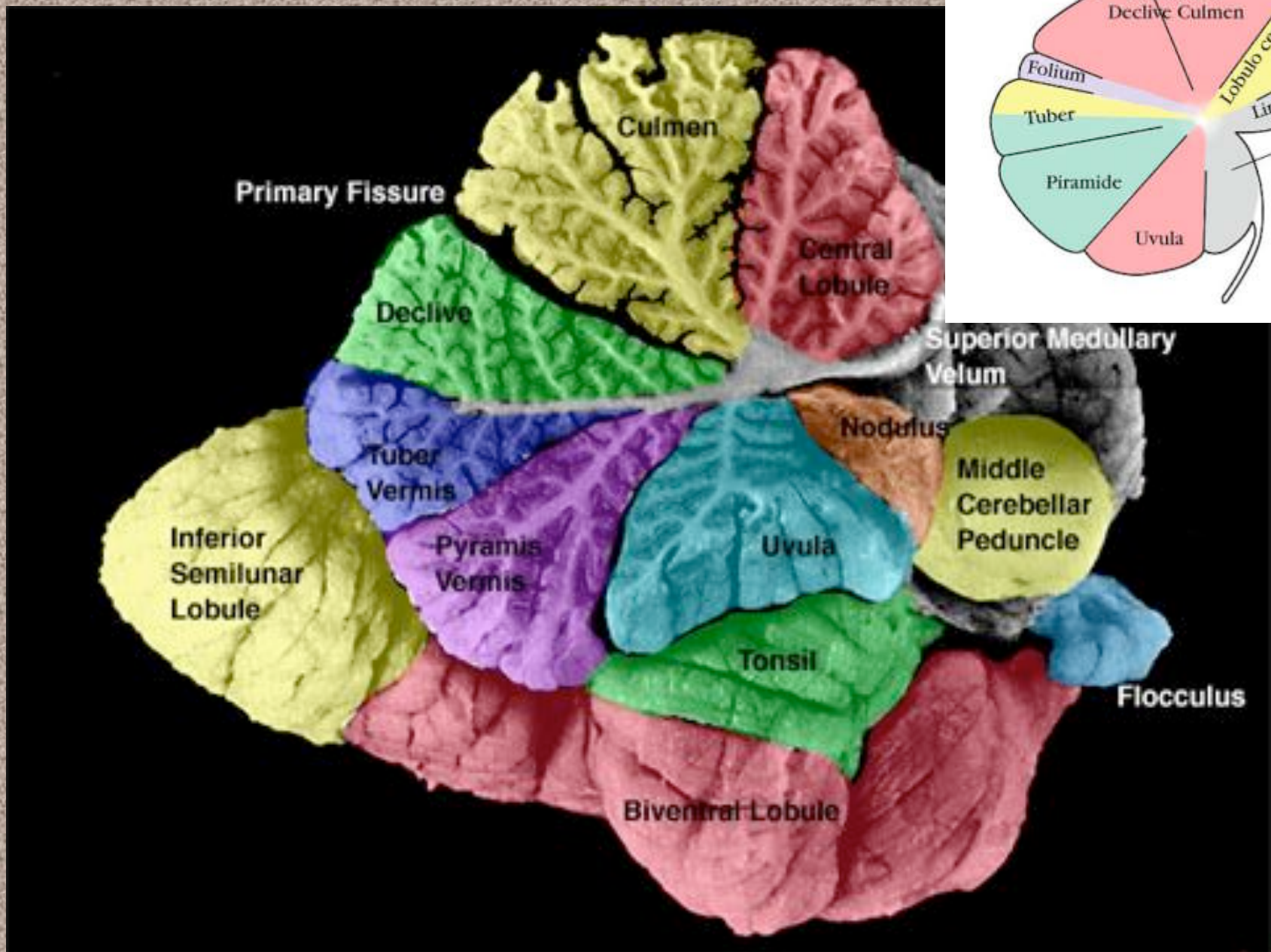
(c)

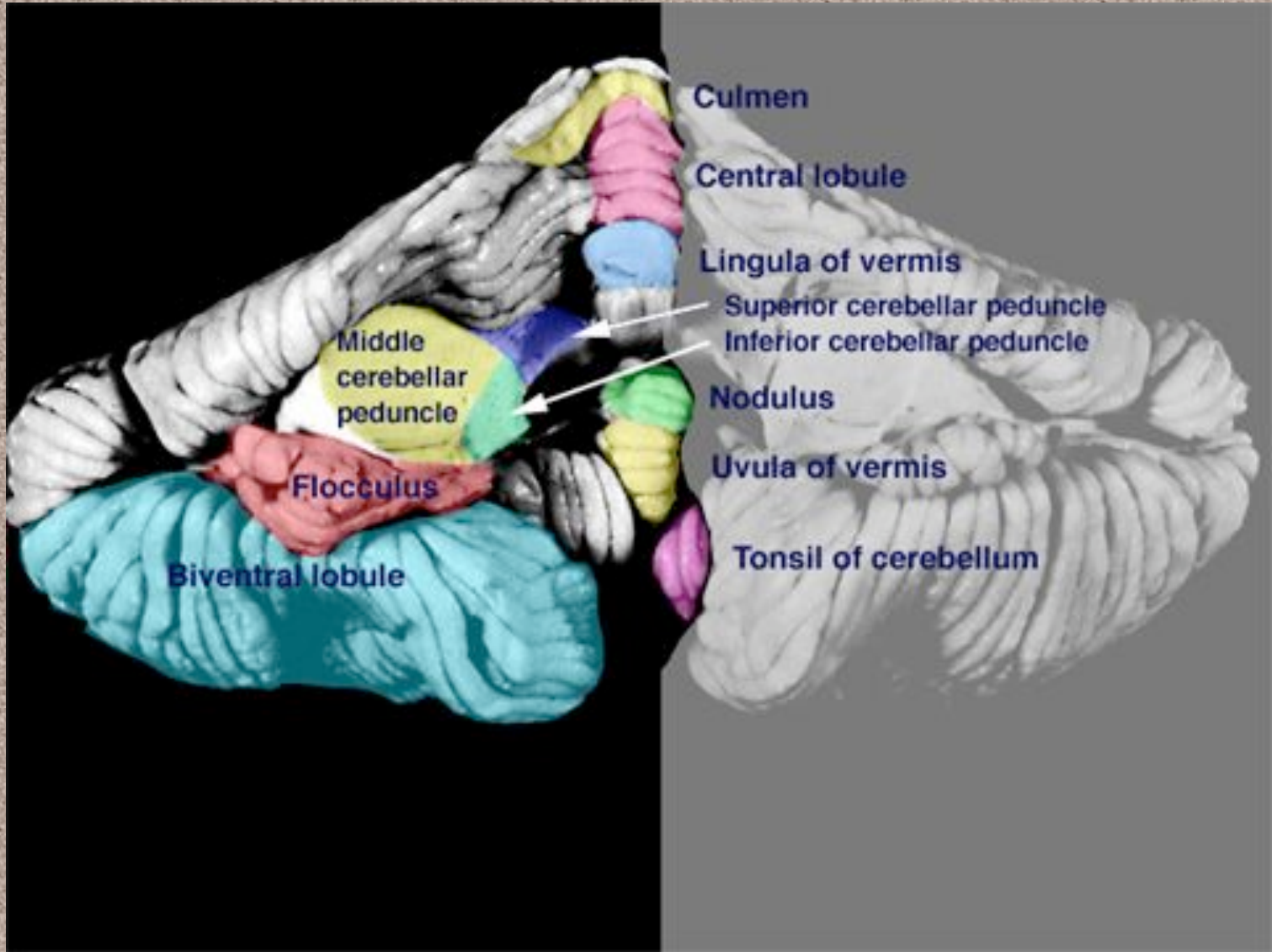
# ORGANIZZAZIONE

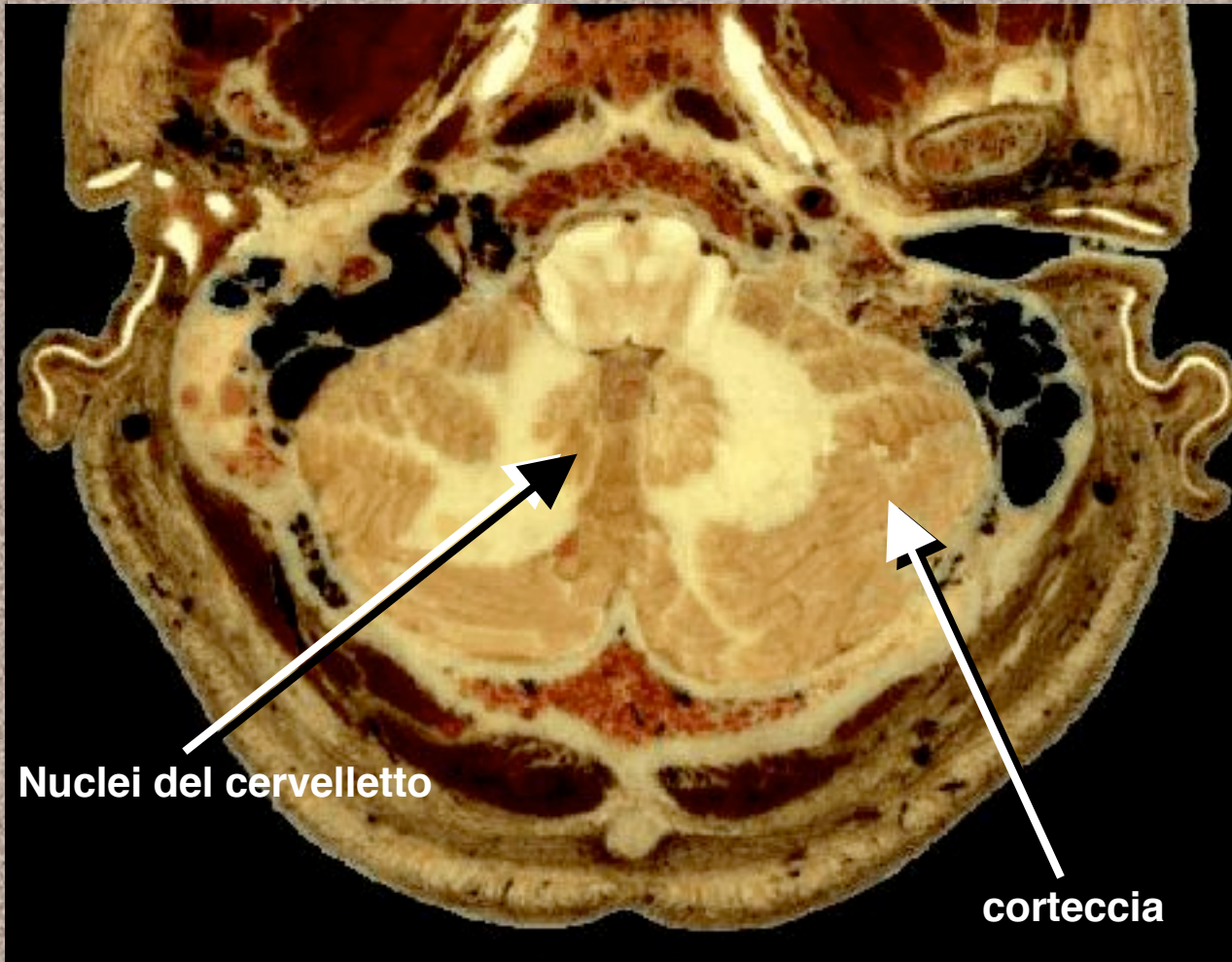
- È l'organo integrativo per:
  - Coordinazione dei movimenti
  - Regolazione del tono muscolare
  - Apprendimento dei movimenti
- Origina dalla lamina alare del tronco encefalico
- Si distinguono porzioni più antiche che esistono in tutti i vertebrati (**archicerebello** e **paleocerebello**) ed altre che si sono invece sviluppate solo nei vertebrati superiori (**neocerebello**)

# Schema organizzativo



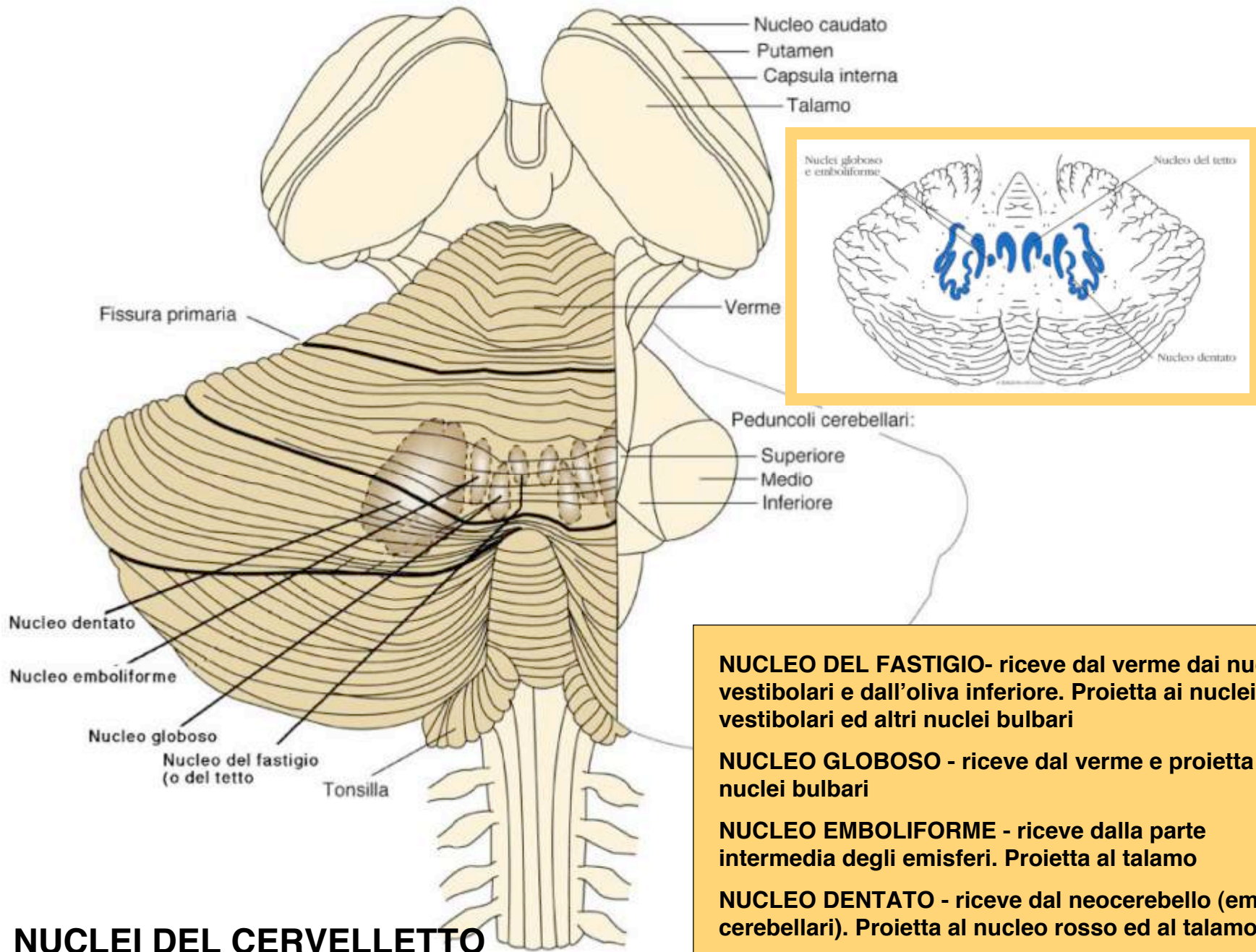






**Nuclei del cervelletto**

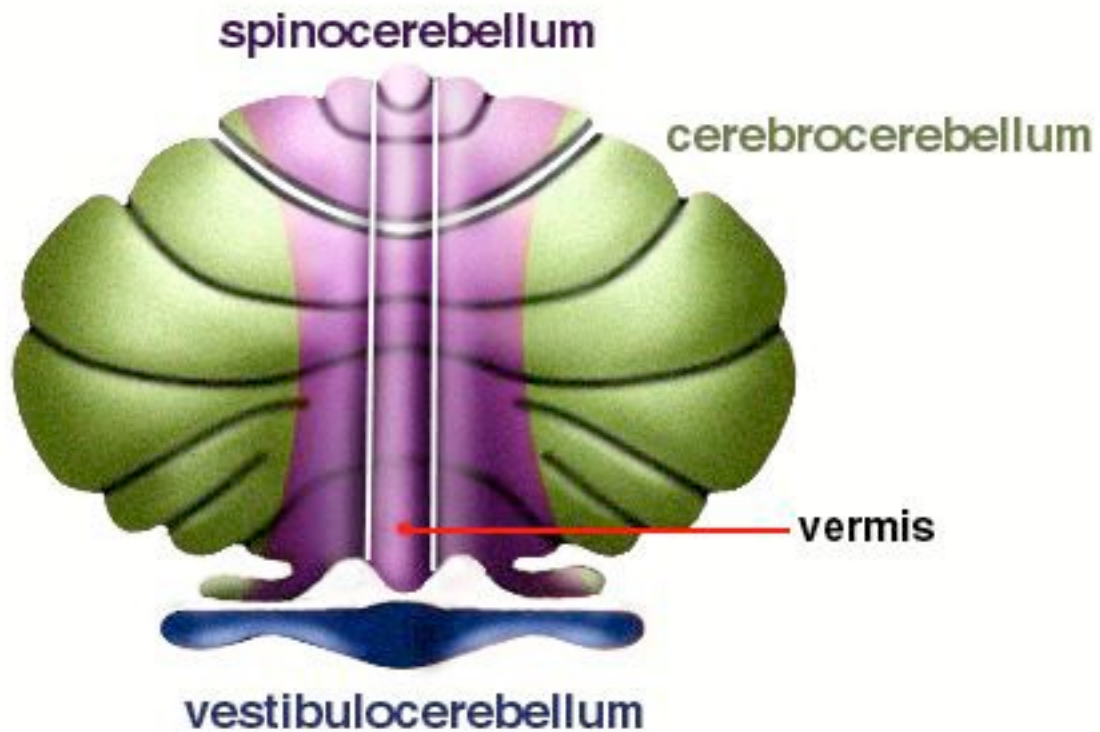
**corteccia**



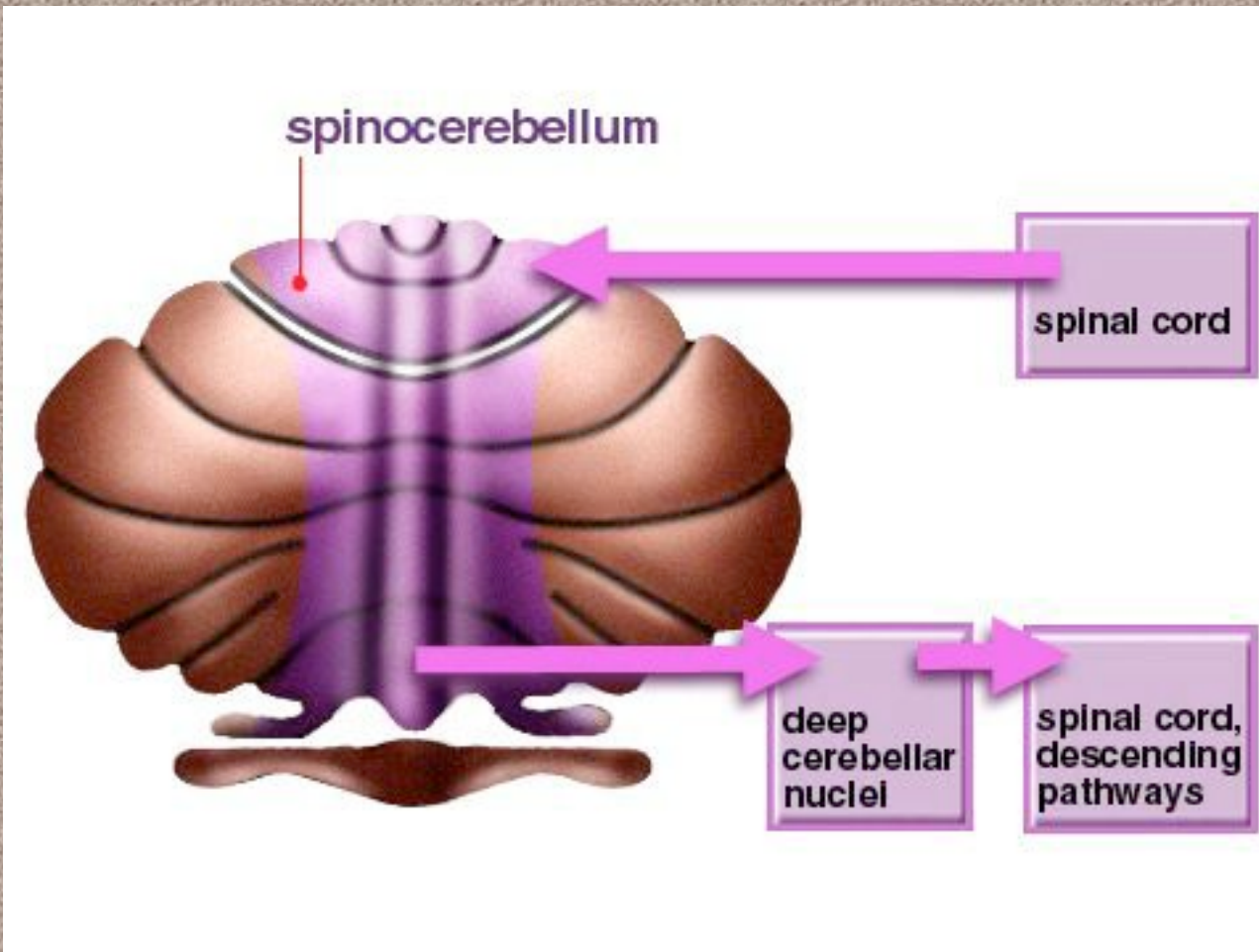
# NUCLEI DEL CERVELLETTO

- NUCLEO DEL FASTIGIO**- riceve dal verme dai nuclei vestibolari e dall'oliva inferiore. Proietta ai nuclei vestibolari ed altri nuclei bulbari
- NUCLEO GLOBOSO** - riceve dal verme e proietta a nuclei bulbari
- NUCLEO EMBOLIFORME** - riceve dalla parte intermedia degli emisferi. Proietta al talamo
- NUCLEO DENTATO** - riceve dal neocerebello (emisferi cerebellari). Proietta al nucleo rosso ed al talamo

# ORGANIZZAZIONE MORFOFUNZIONALE DEL CERVELLETTO

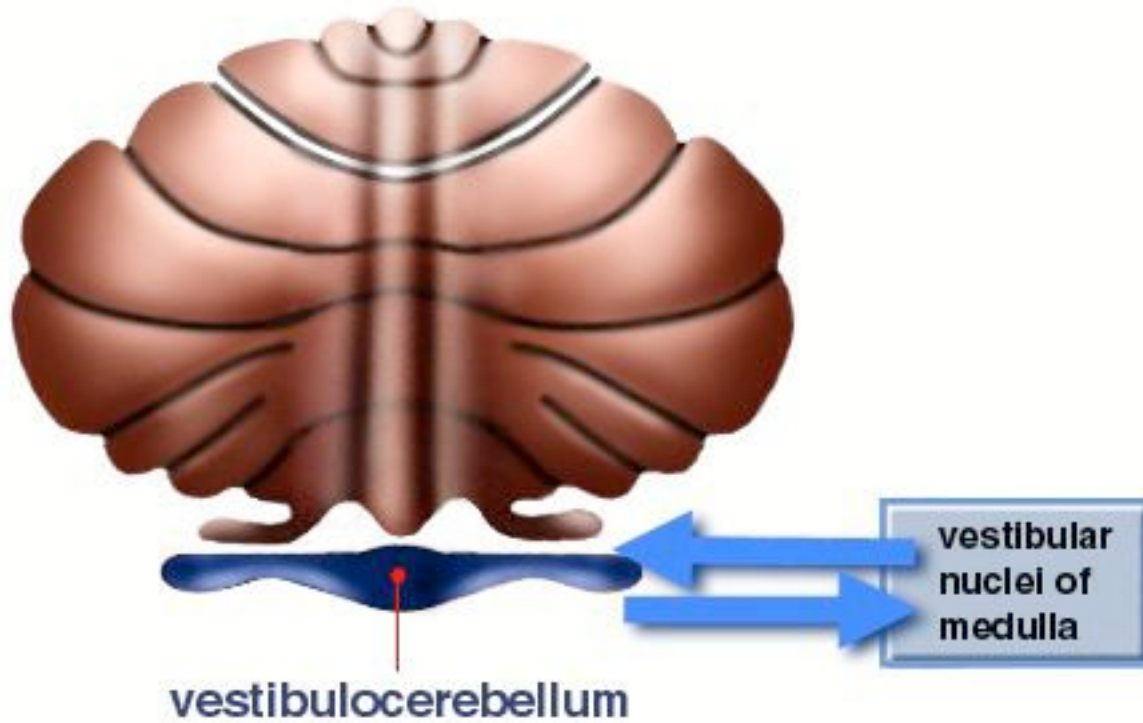


# PALEOCEREBELLO



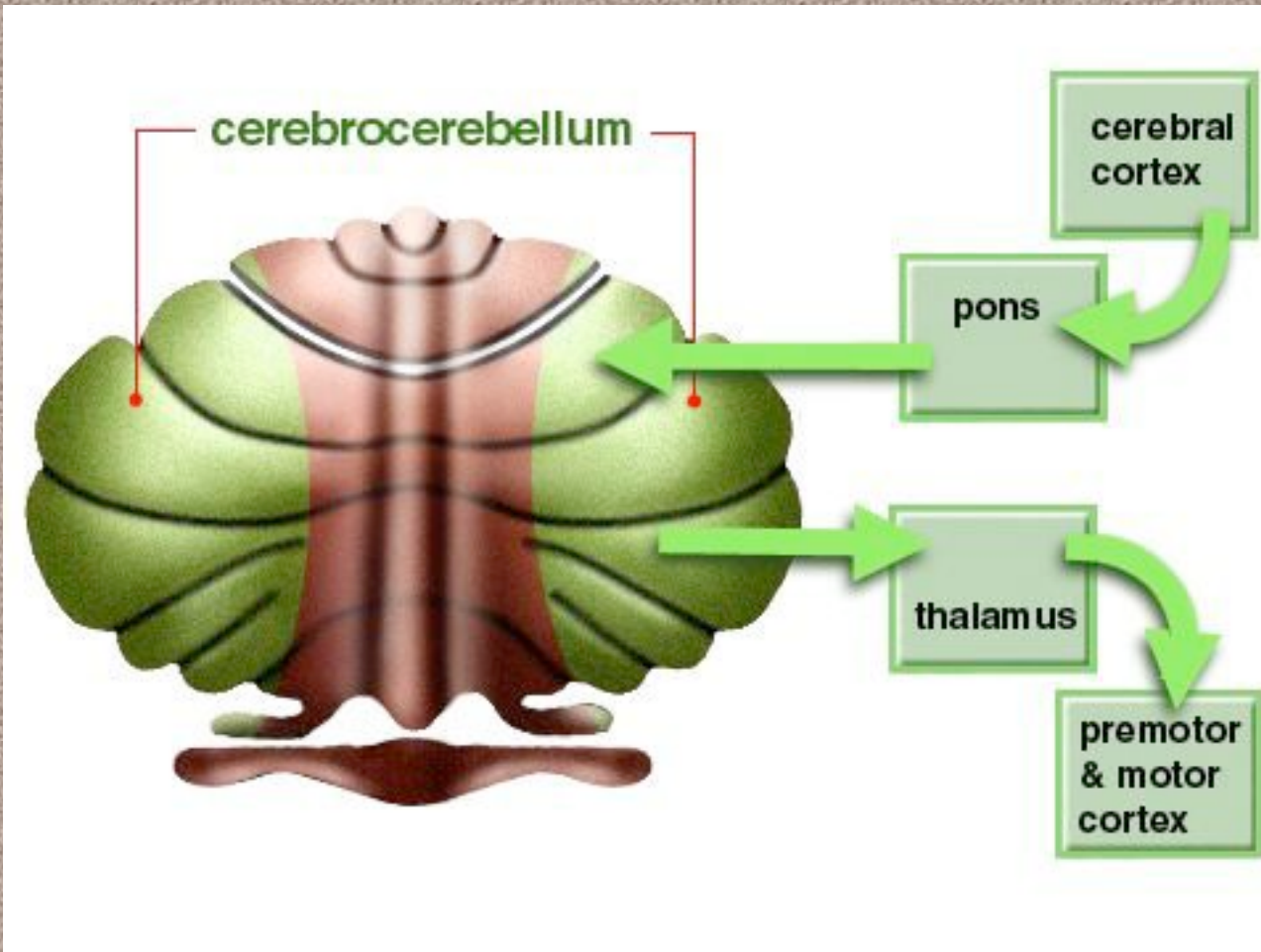
SENSIBILITA' PROPRIOCETTIVA DALLA MUSCOLATURA

# ARCHICEREBELLO

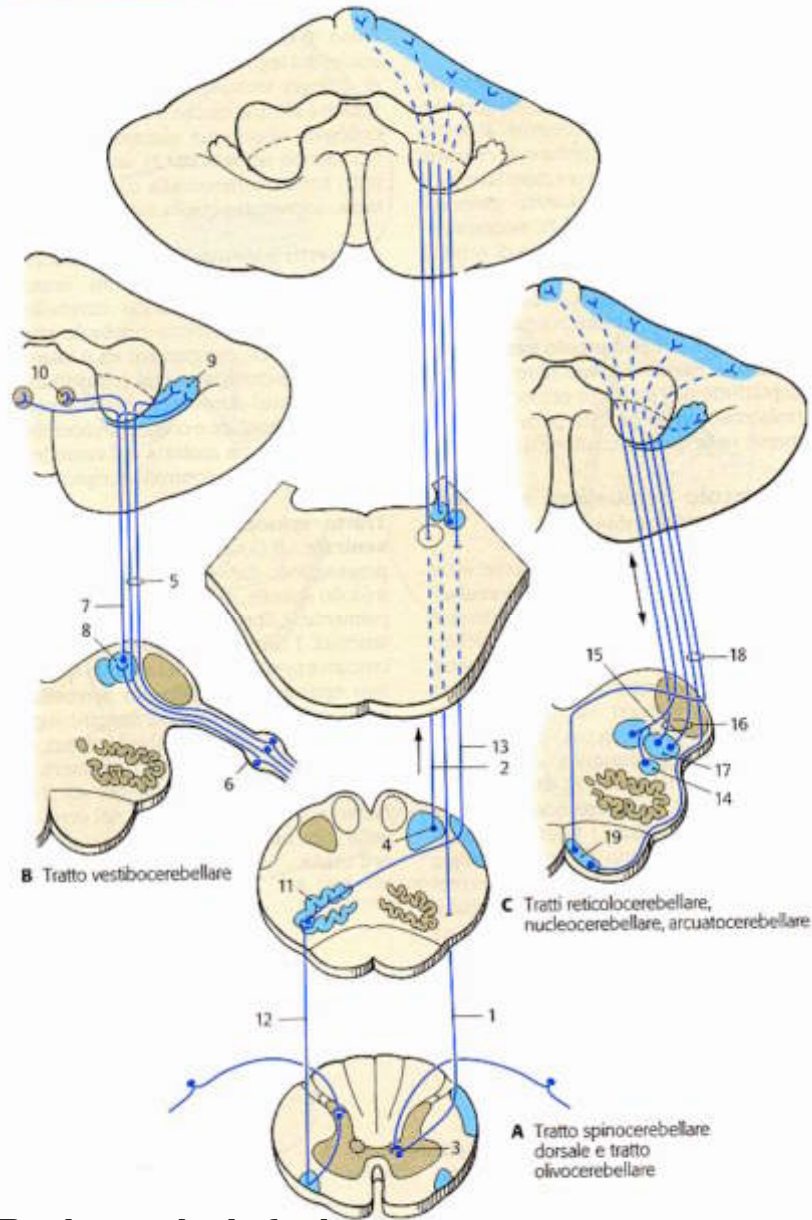


REGOLAZIONE  
DELL'EQUILIBRIO

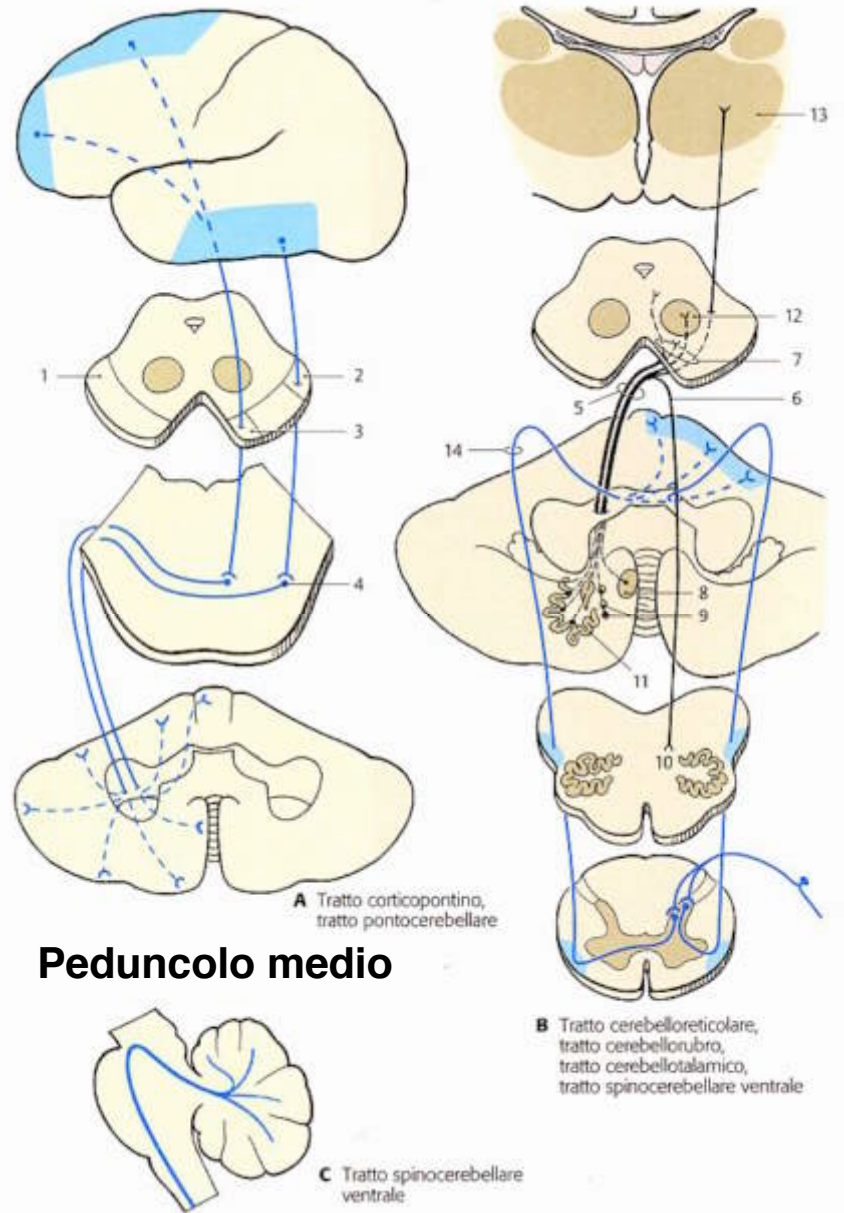
# NEOCEREBELLO



**FINE REGOLAZIONE  
DEI MOVIMENTI**



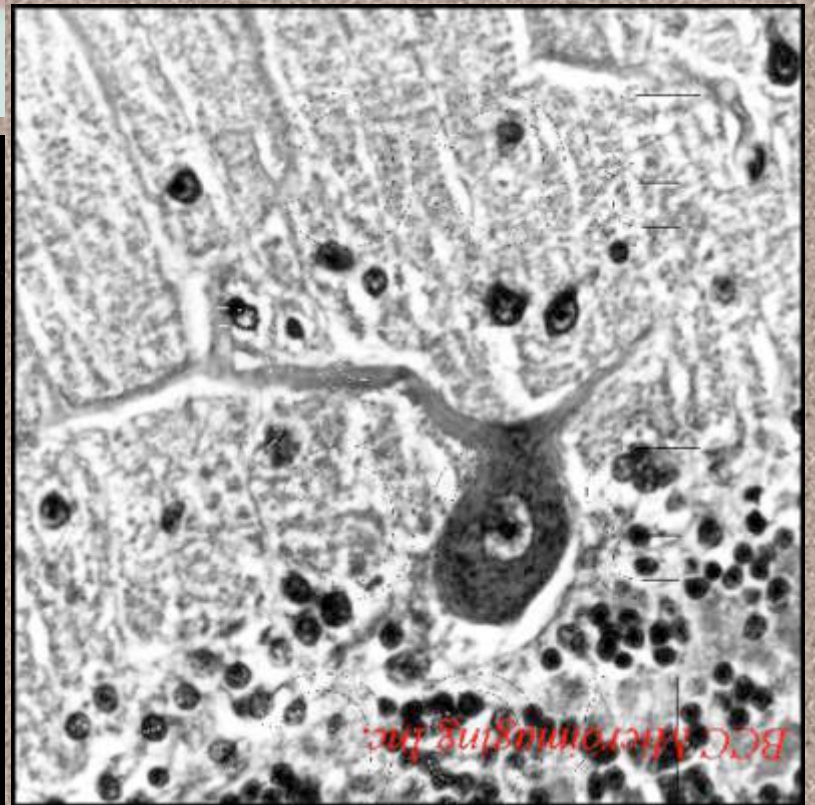
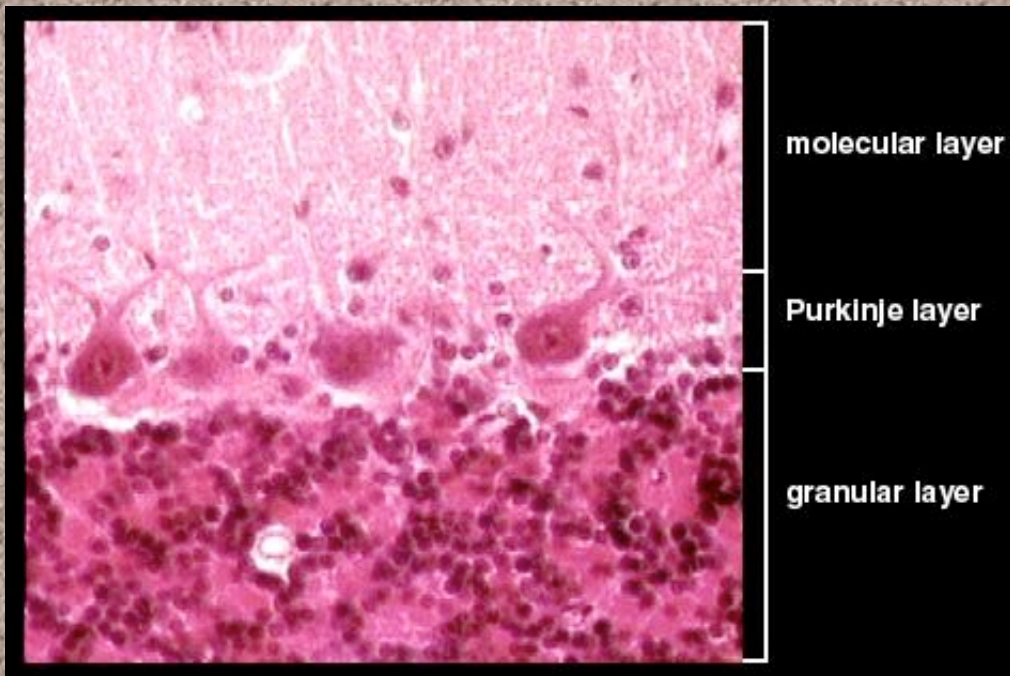
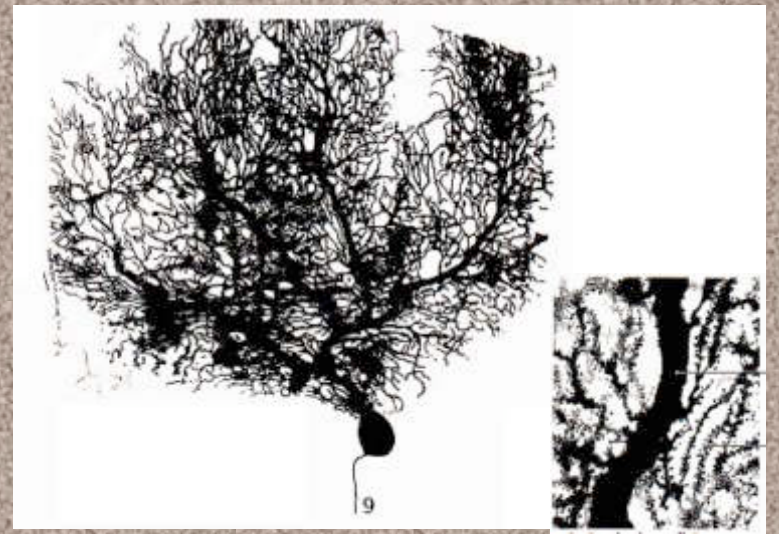
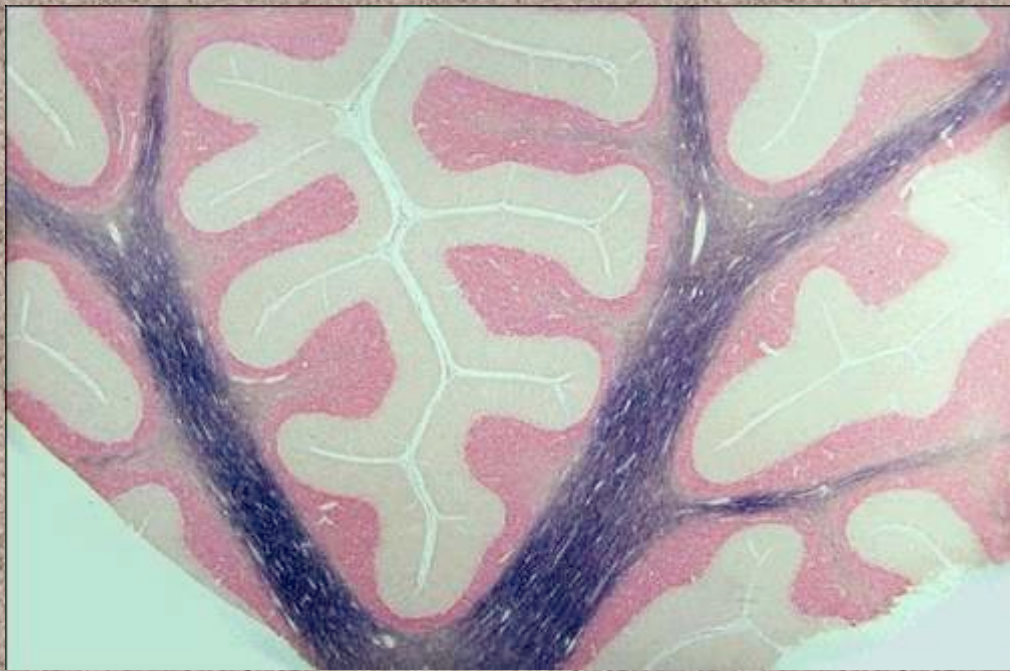
**Peduncolo inferiore**



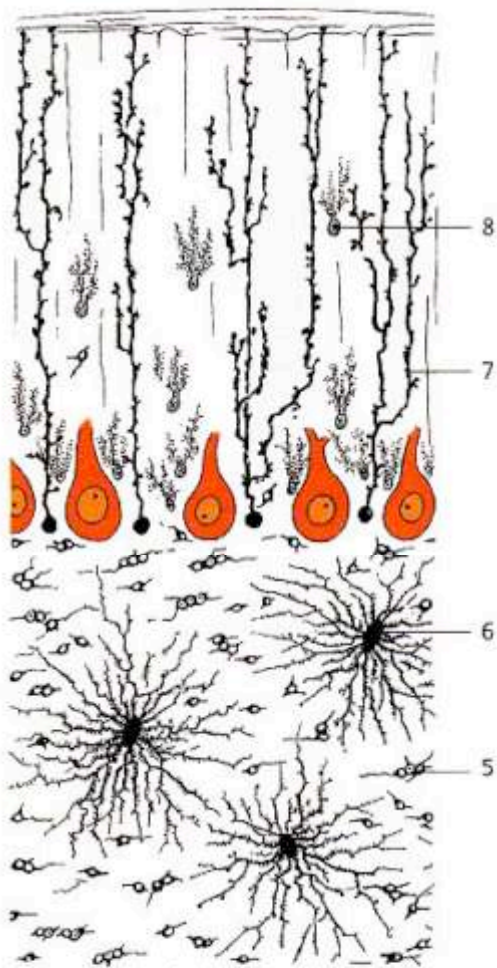
**Peduncolo medio**

**Peduncolo superiore**

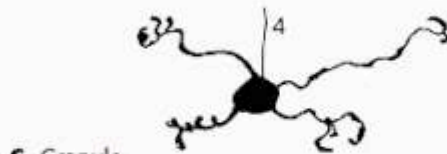
# **Corteccia del Cervelletto**



BCC Microscopy Inc.



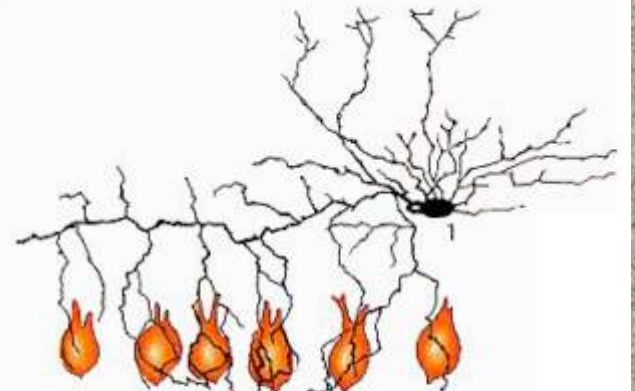
**D** Cellule gliali del cervelletto



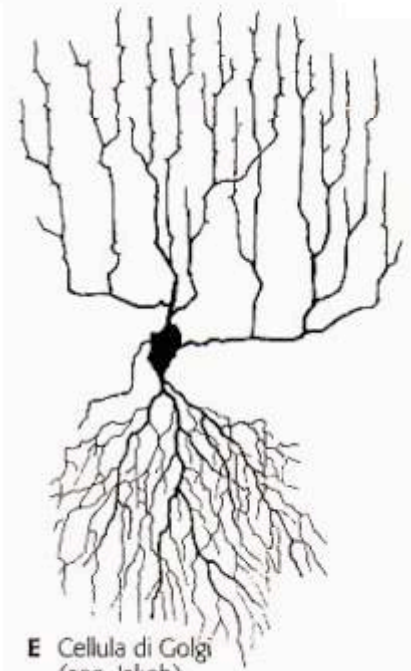
**C** Granulo



**B** Cellula di Purkinje: schema ultrastrutturale delle sinapsi con le cellule dei canestri (sec. Hármori e Szentágothai)



**A** Cellula dei canestri (sec. Jakob)



**E** Cellula di Golgi (sec. Jakob)

Rappresentazione schematica  
dei collegamenti neuronali  
nella corteccia cerebellare

