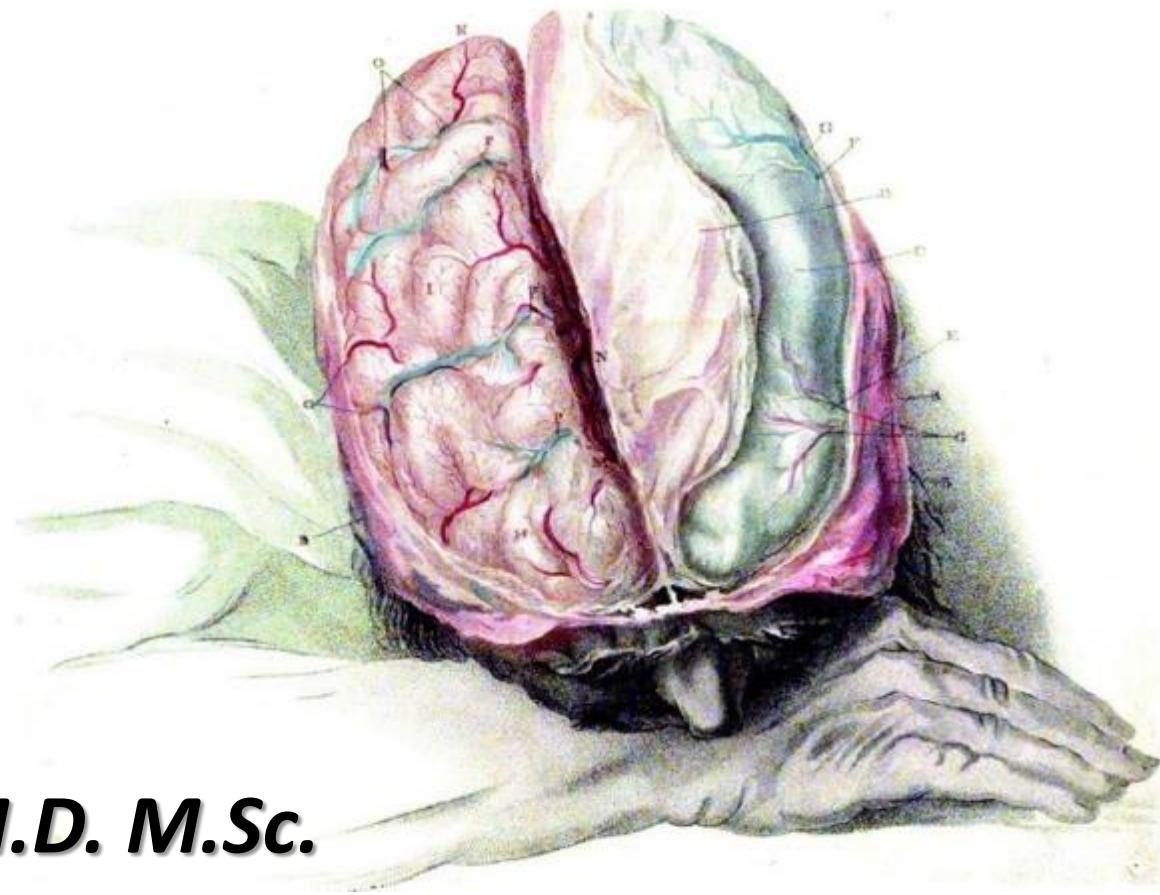


# Corteza Cerebral

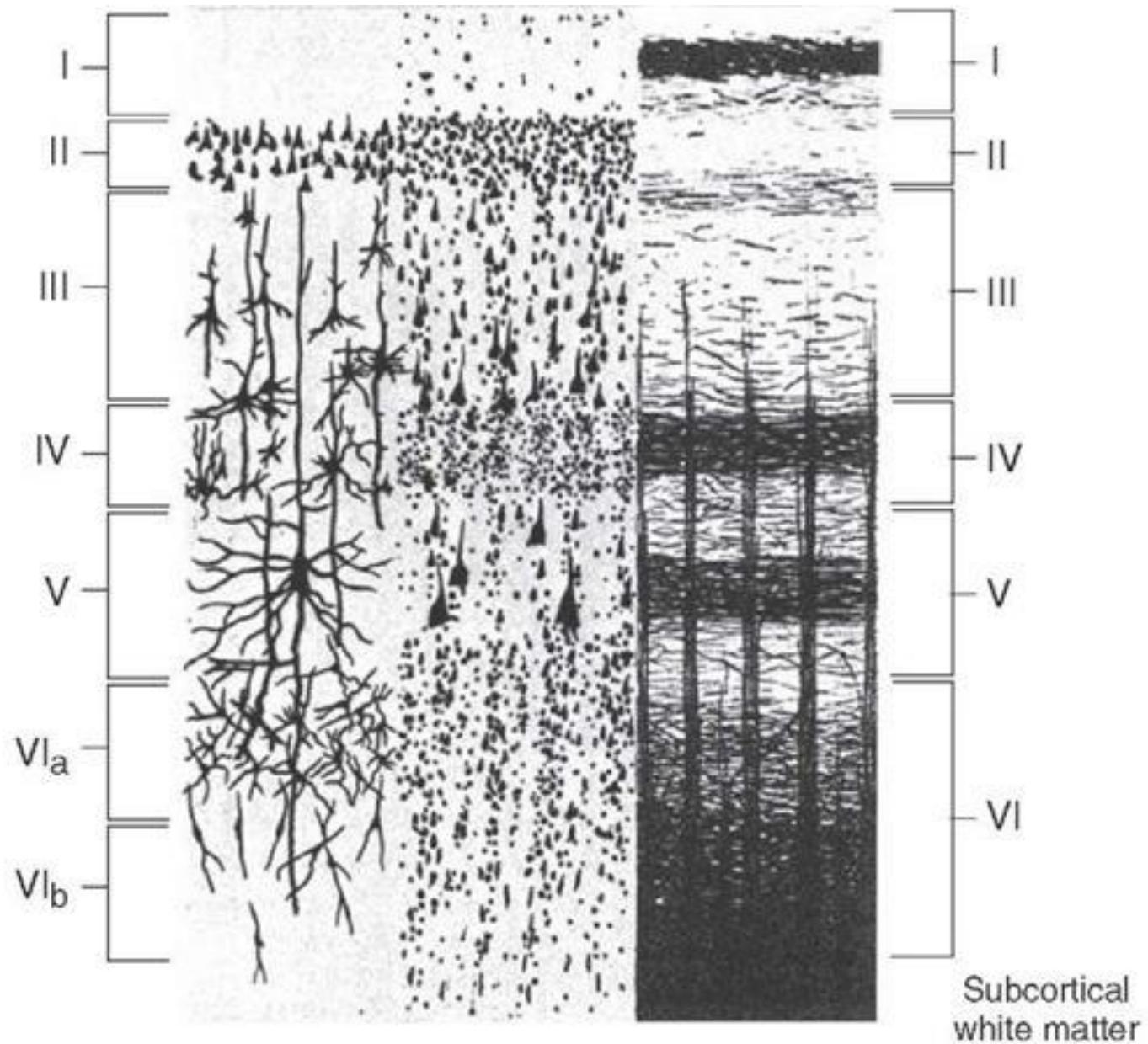


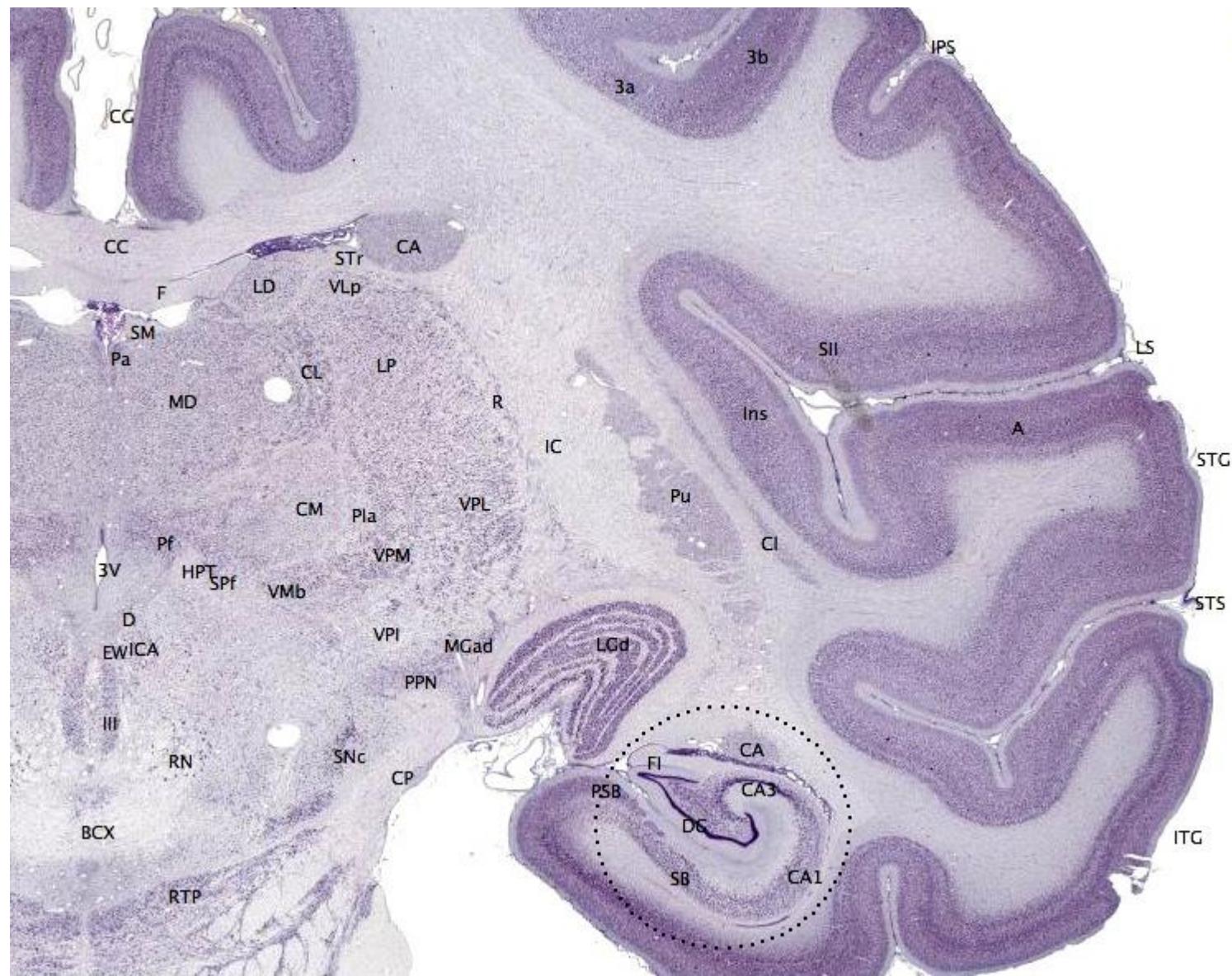
**Nelson D. Villalba M.D. M.Sc.**

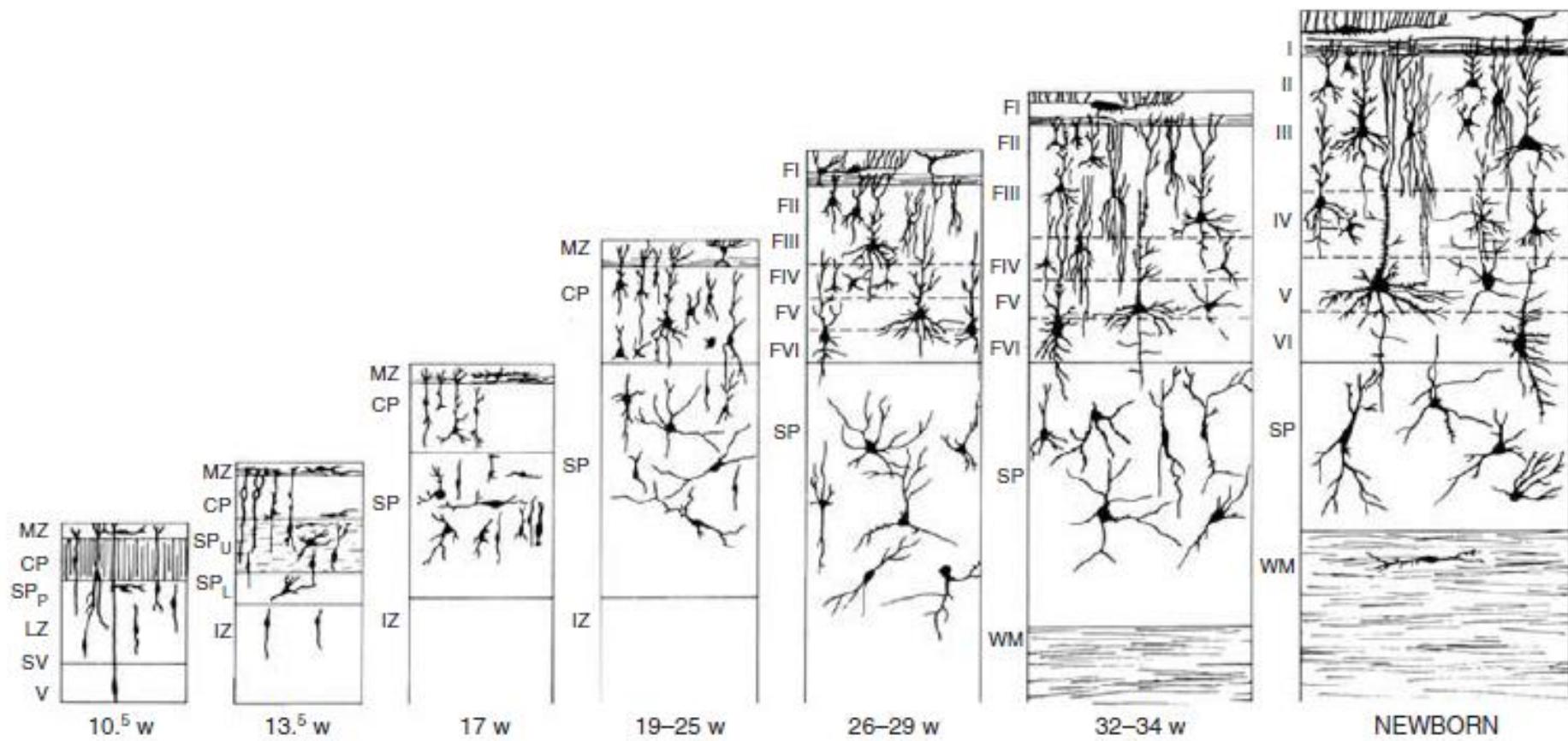
*Los hombres deben saber que del cerebro y solo de él vienen las alegrías, las delicias, el placer, la risa y también, el sufrimiento, el dolor y los lamentos [...] Y por el mismo órgano nos volvemos locos y deliramos y el miedo y los terrores nos asaltan.*

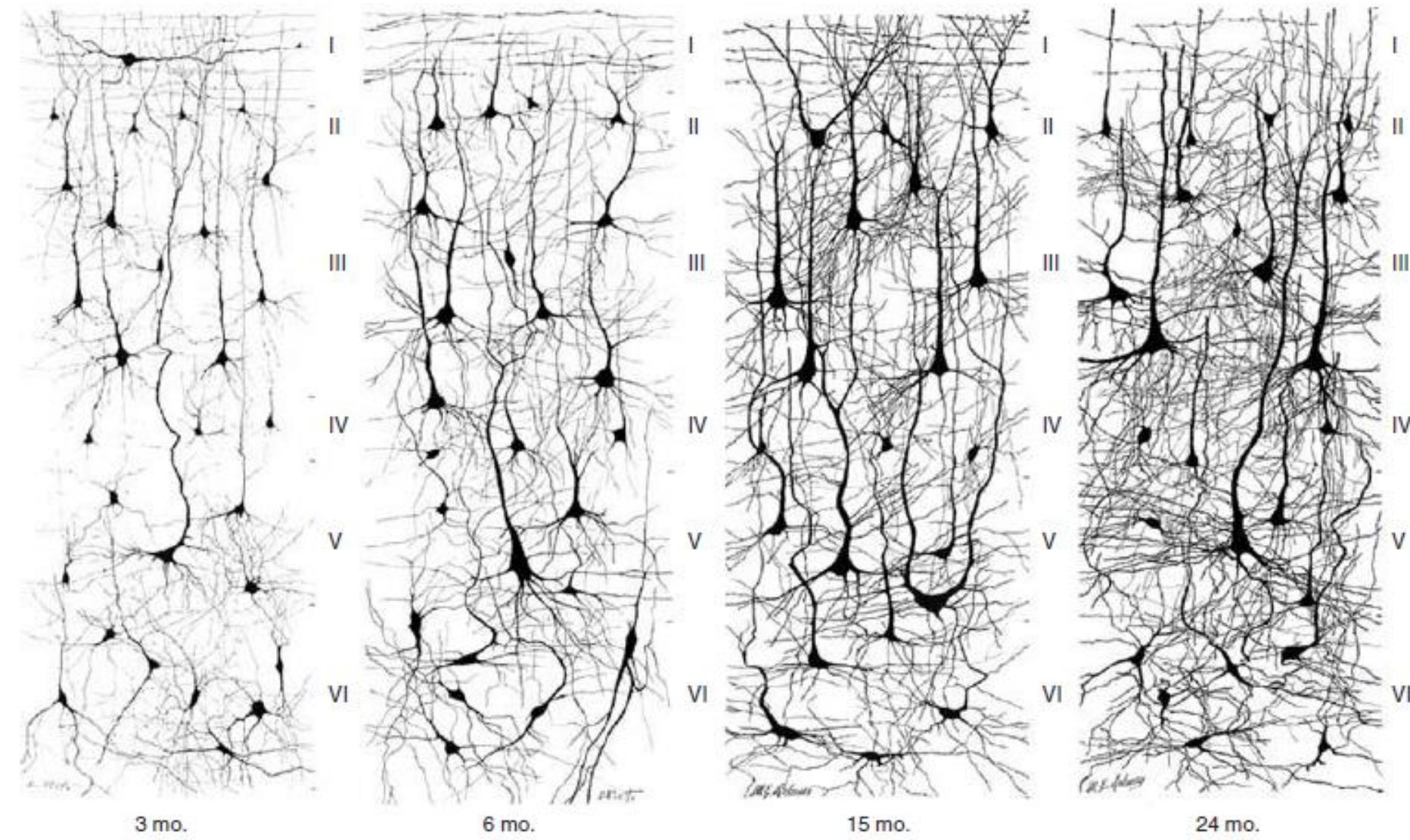
*Es el máximo poder en el hombre.  
Es nuestro intérprete de aquellas cosas que están en el aire...*

*Hipócrates (460 - 370 a. C)*

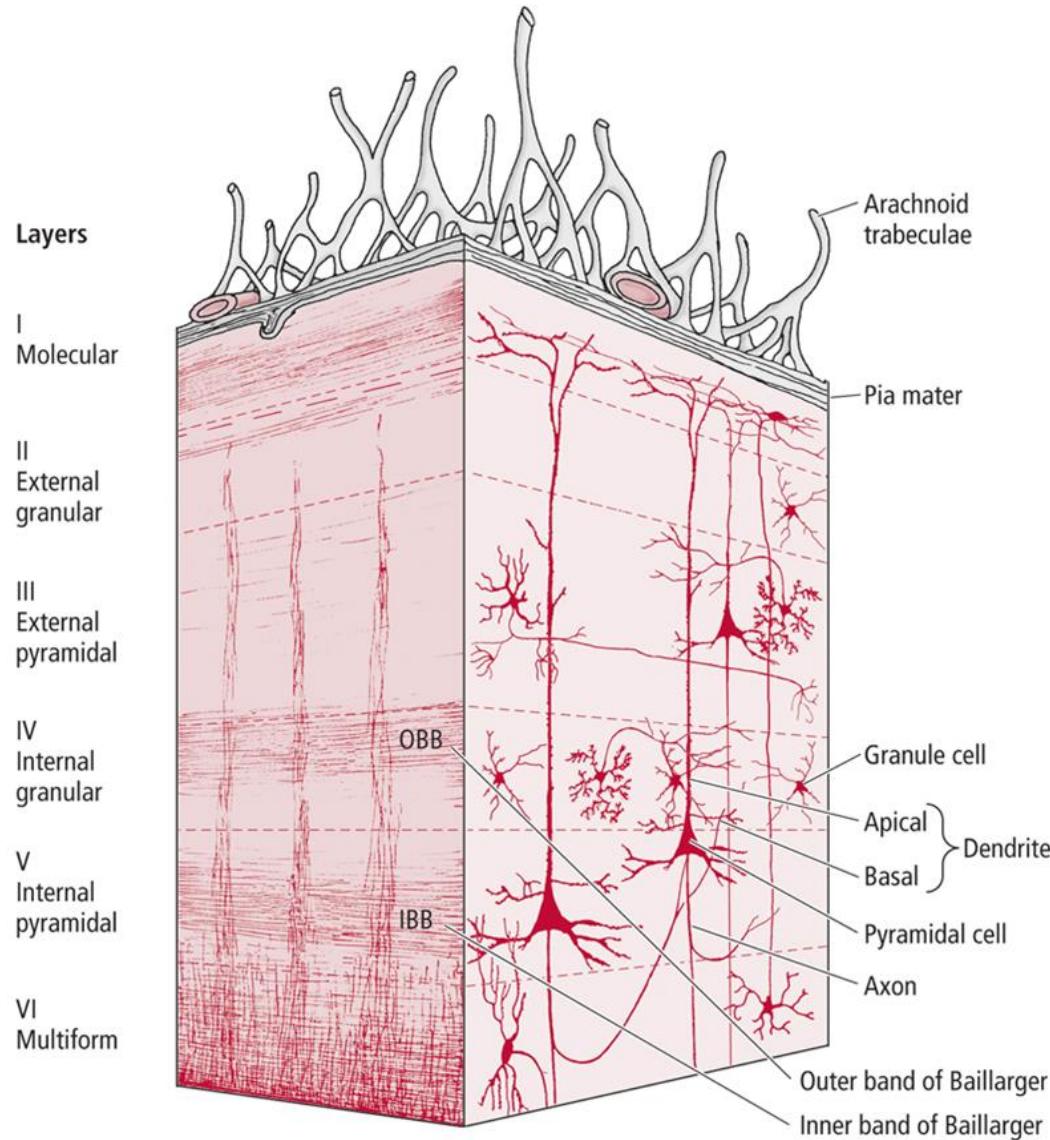




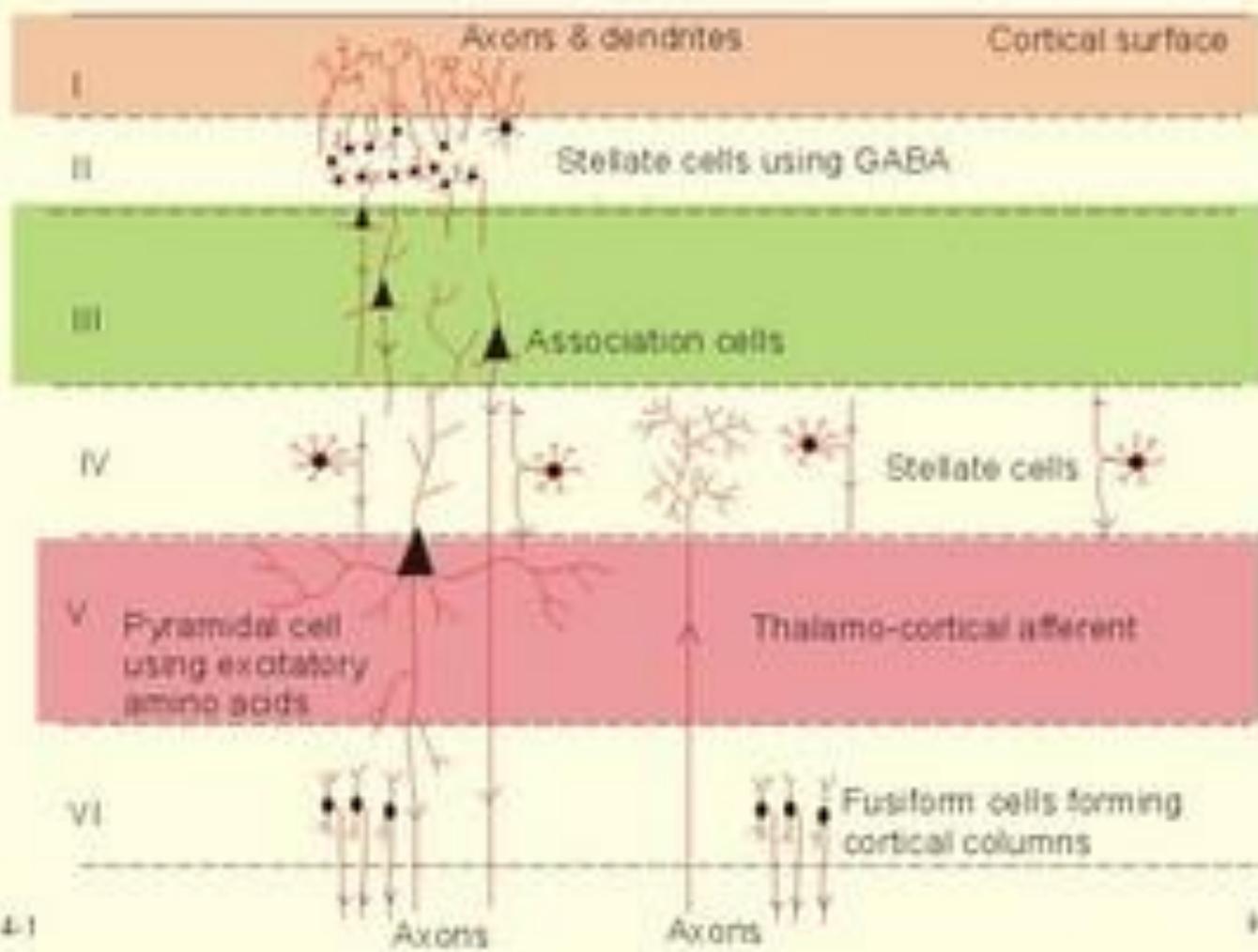




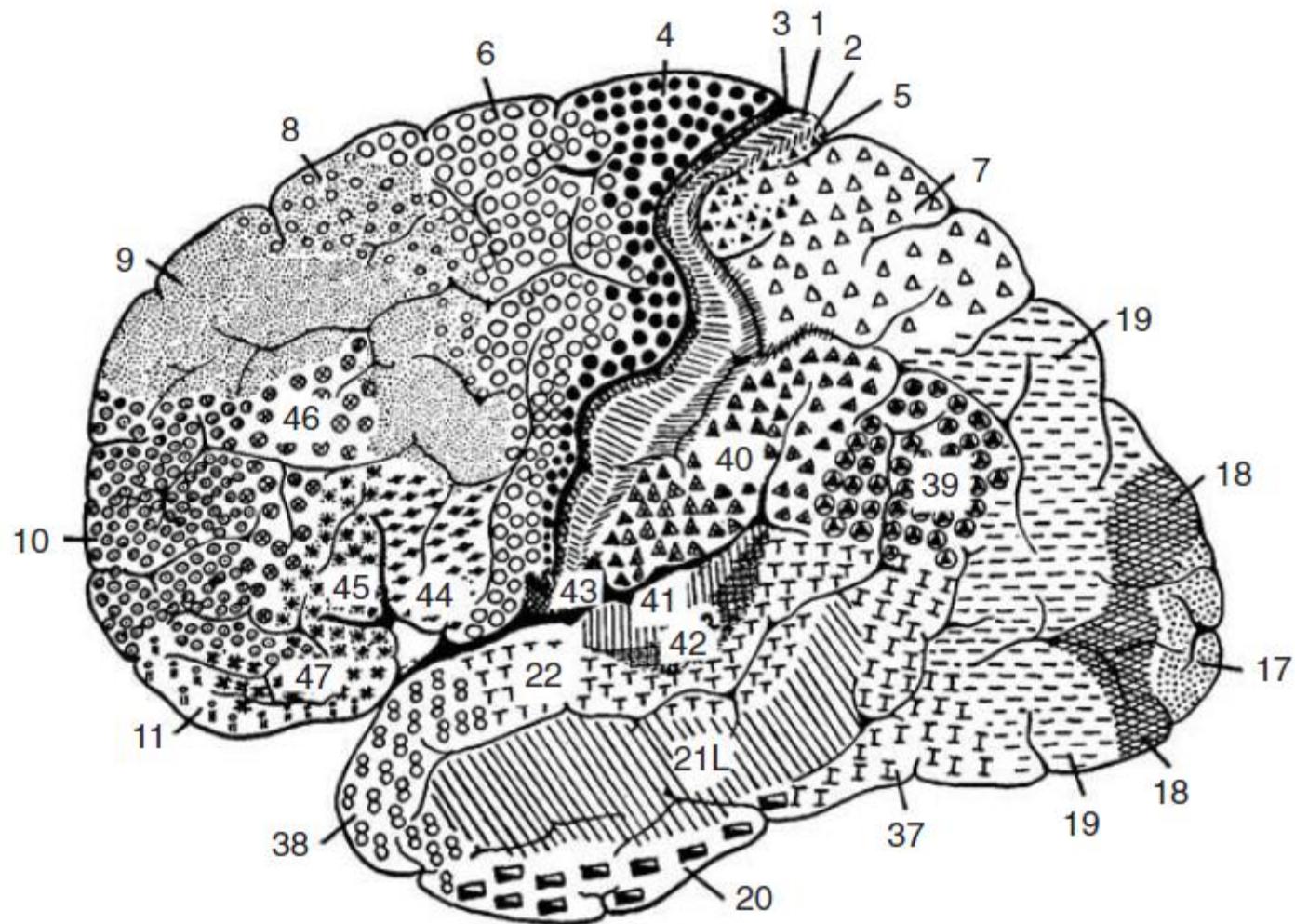
# Organización Laminar



## The 6 Layers of The Cerebral Neocortex



# Organización Laminar

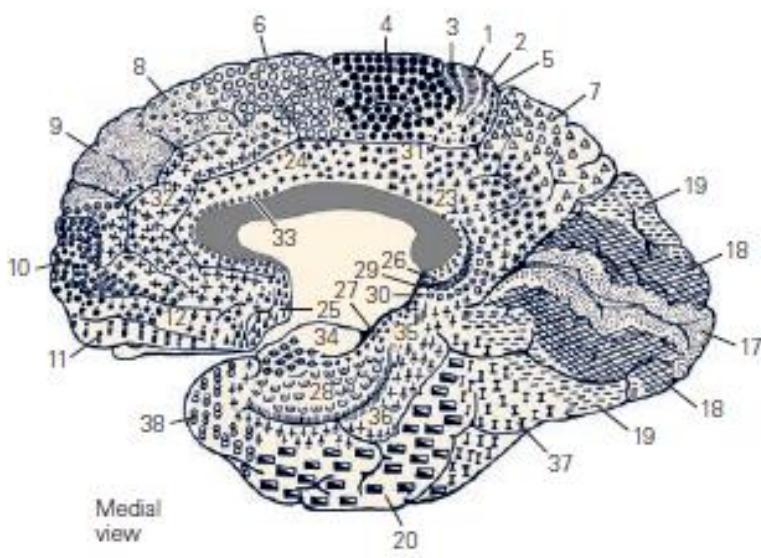
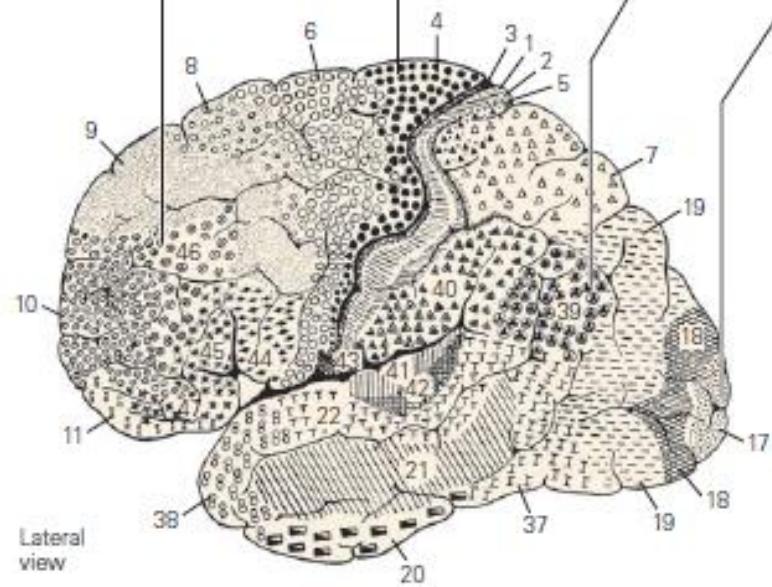
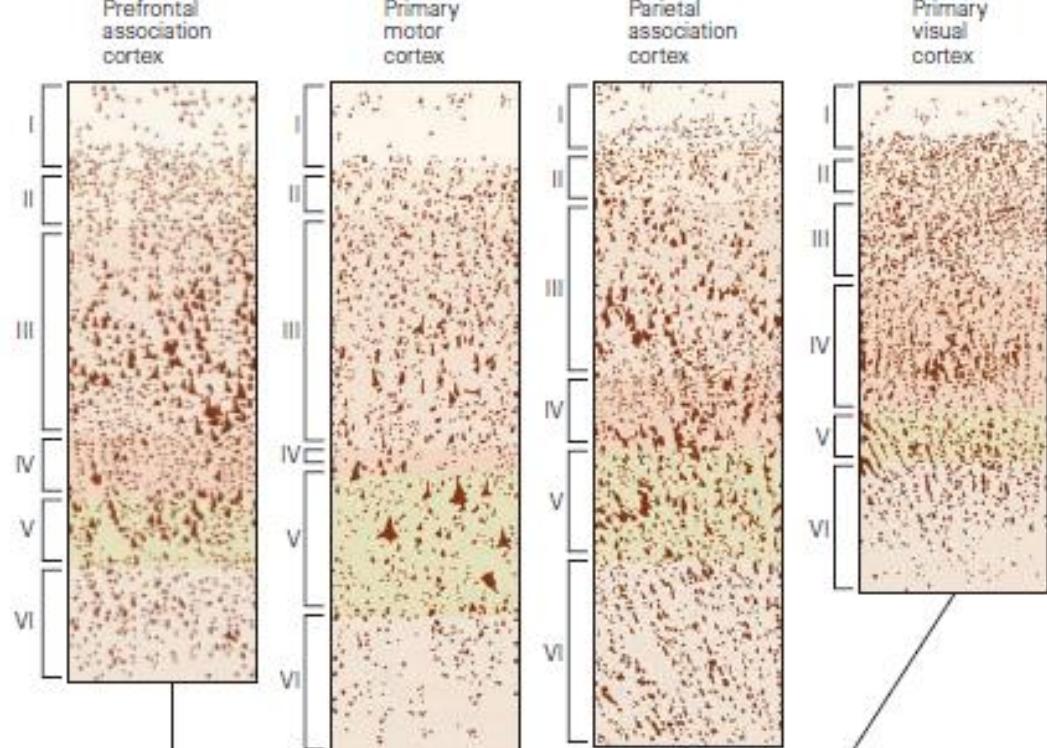


# Organización Laminar

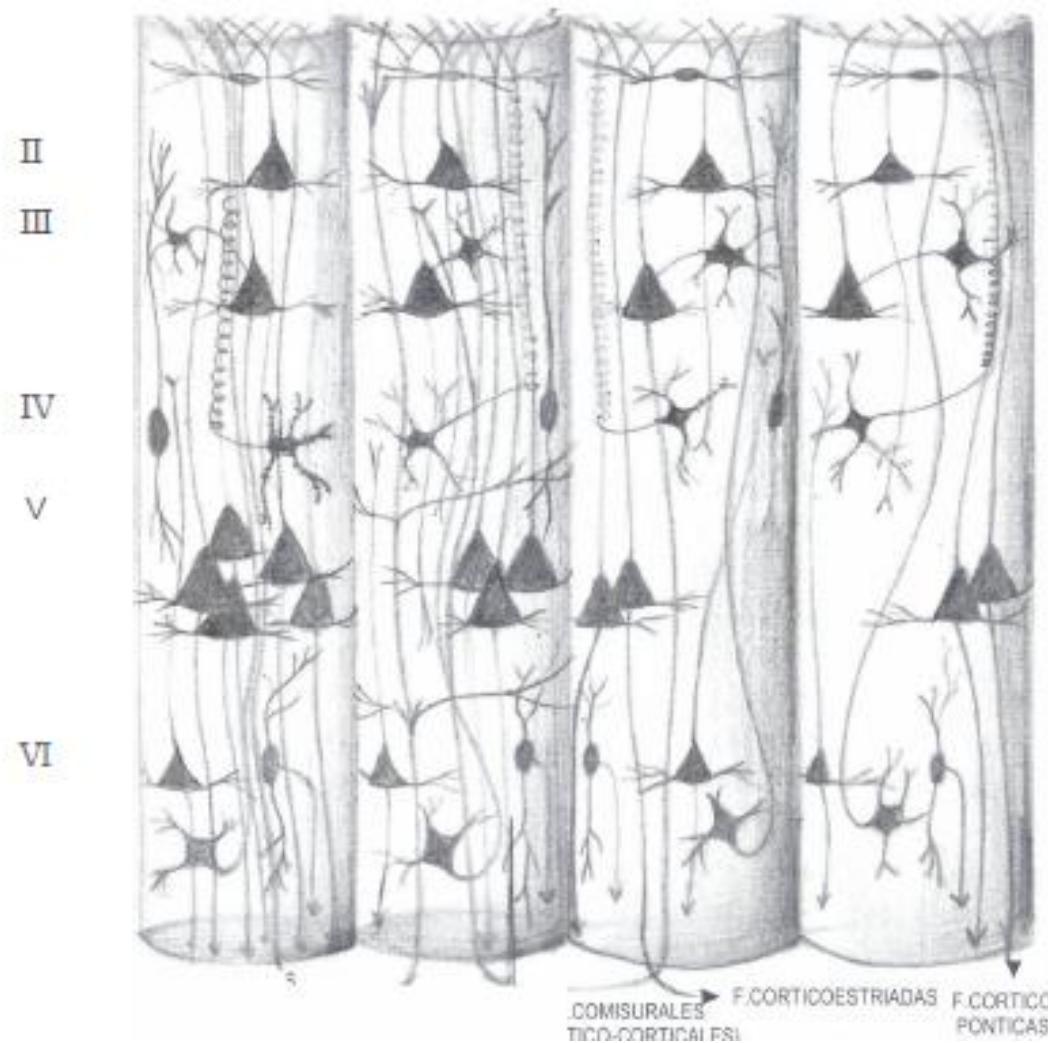
**Figura 2.** Progresión de la arquicorteza, la paleocorteza y las zonas de transición hacia la neocorteza.

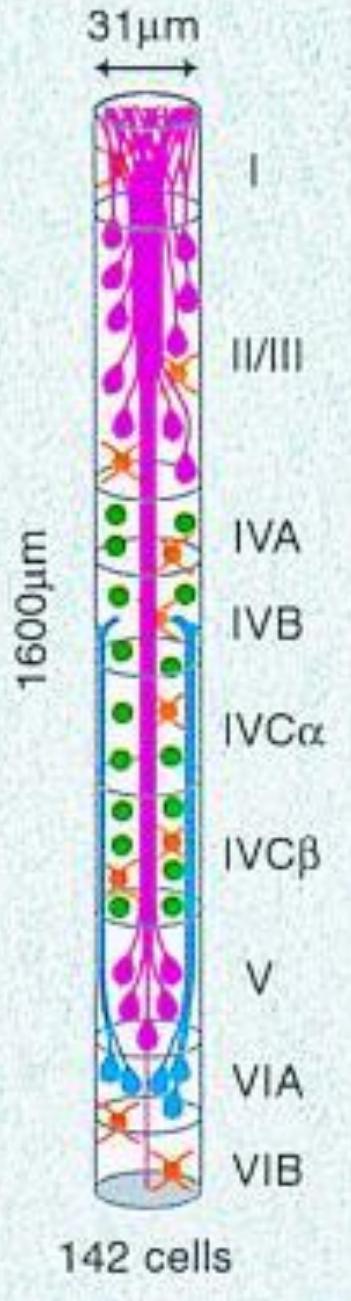


*Nota: en la figura, la línea doble muestra una conexión recíproca entre los extremos del espectro.*



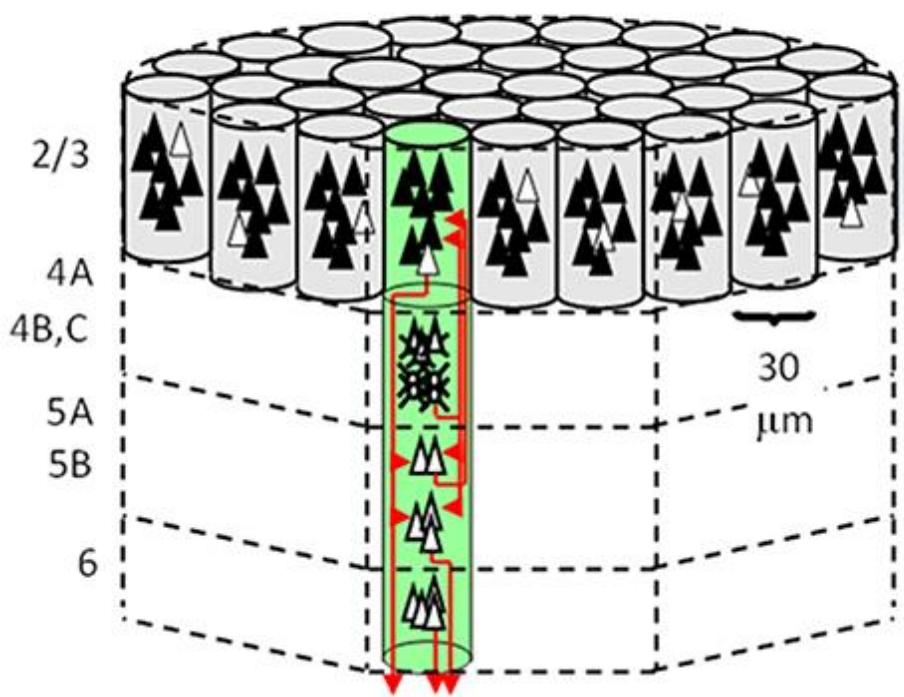
# Organización Columnar



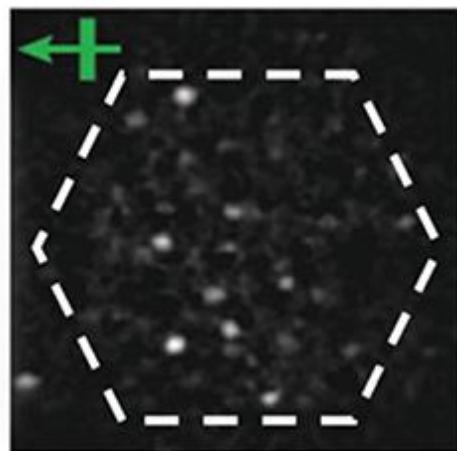
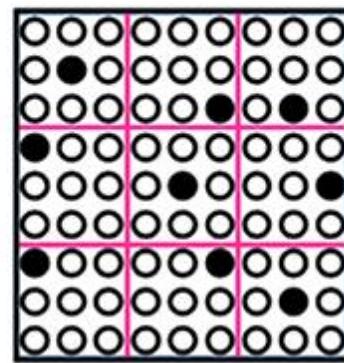
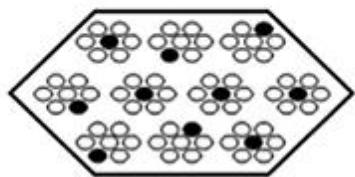


## Macrocolumn, "Mac"

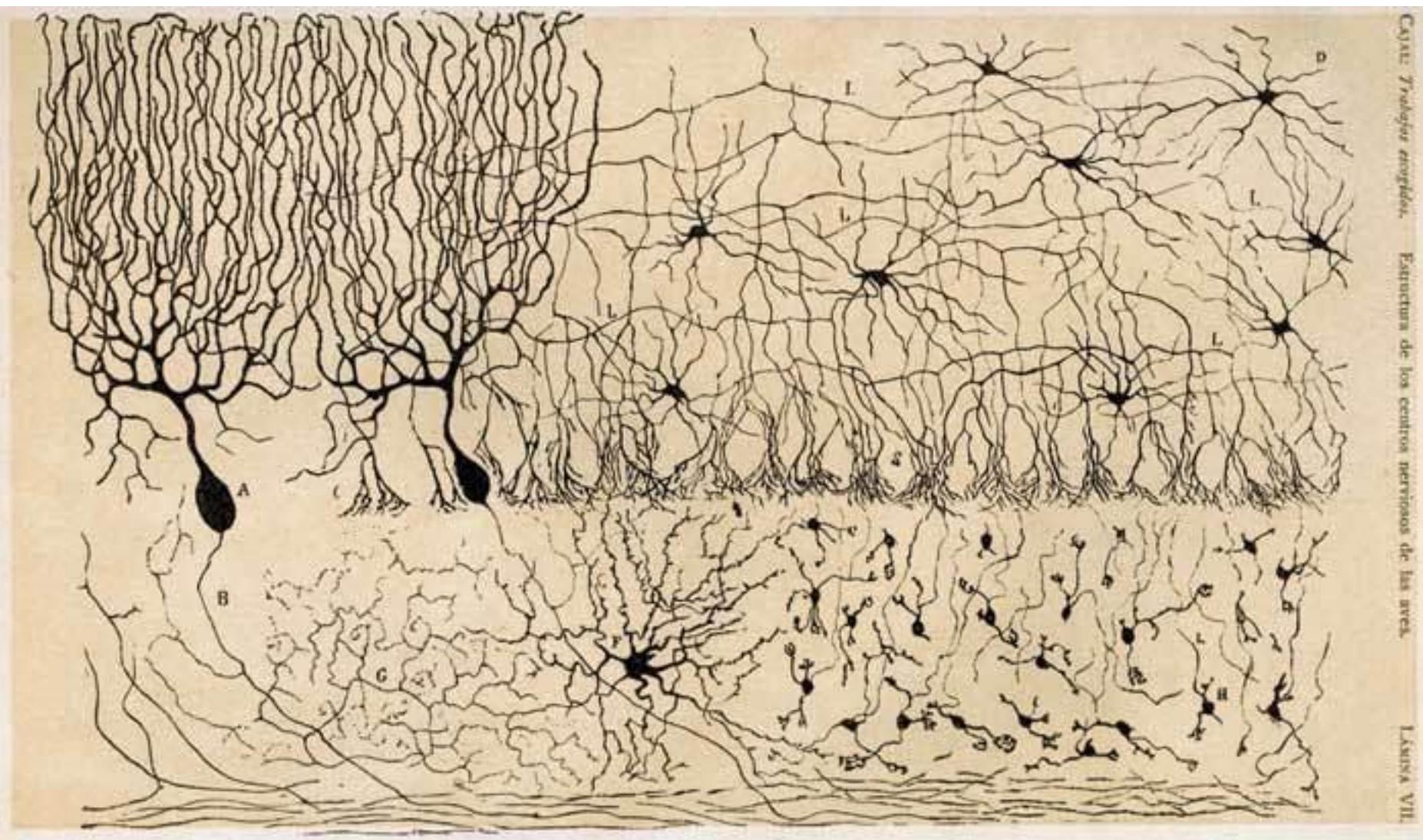
300-500  $\mu\text{m}$



2-photon  
calcium  
Imaging



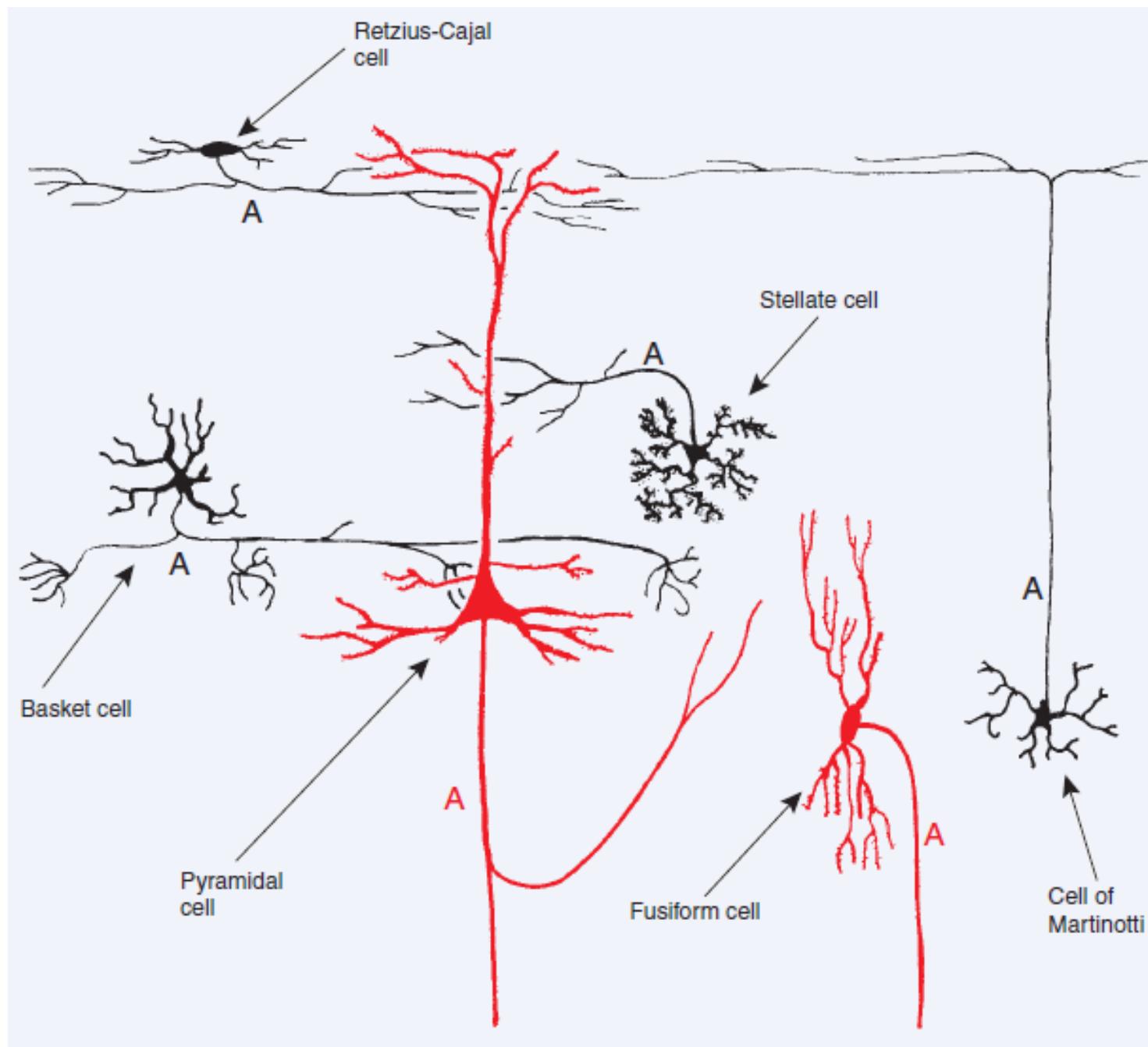
# Tipos Celulares



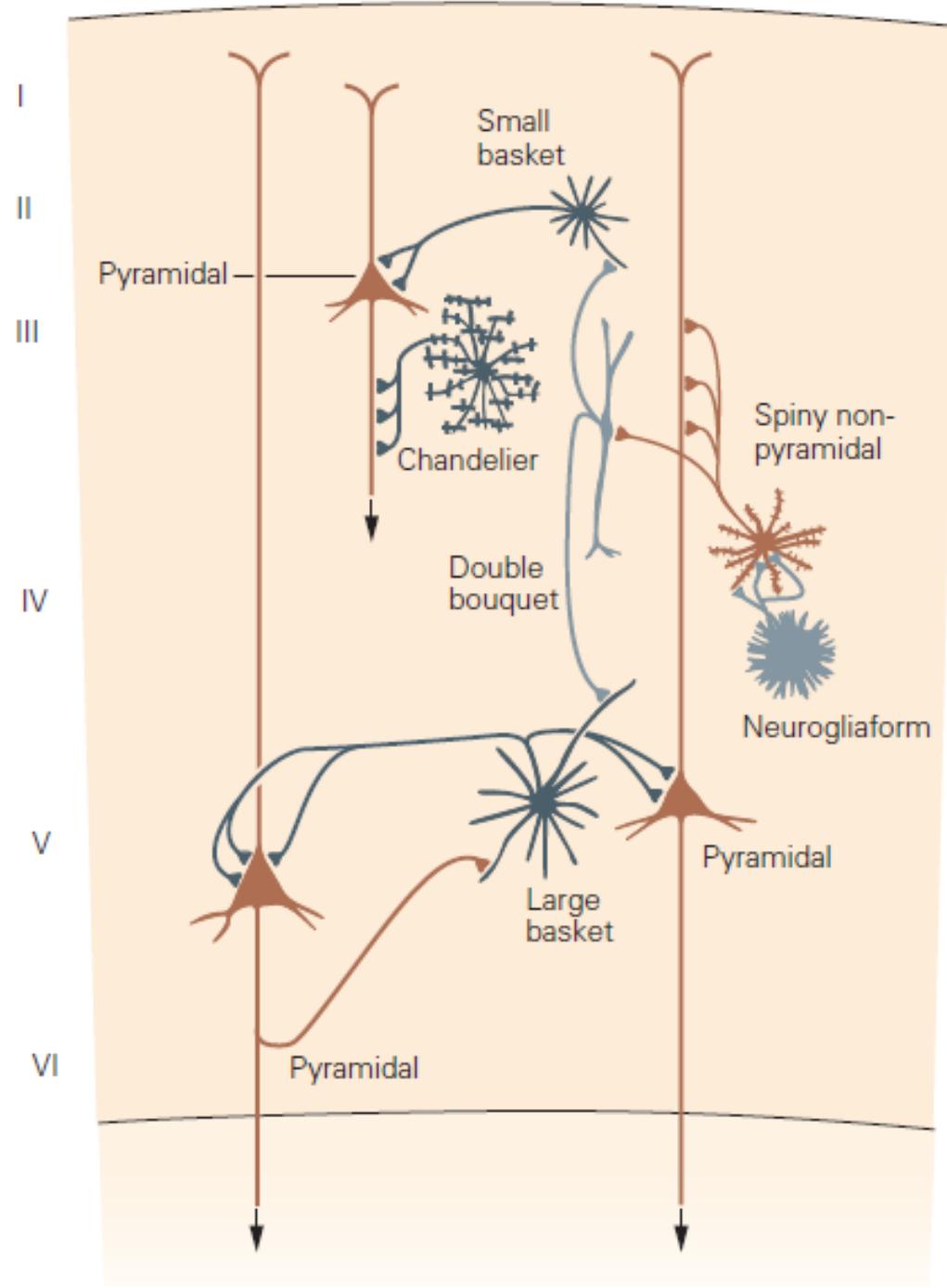
# Tipos Celulares

- Células Piramidales
- Células Estrelladas
- Células Fusiformes
- Horizontales de Cajal
- Células de Martinotti

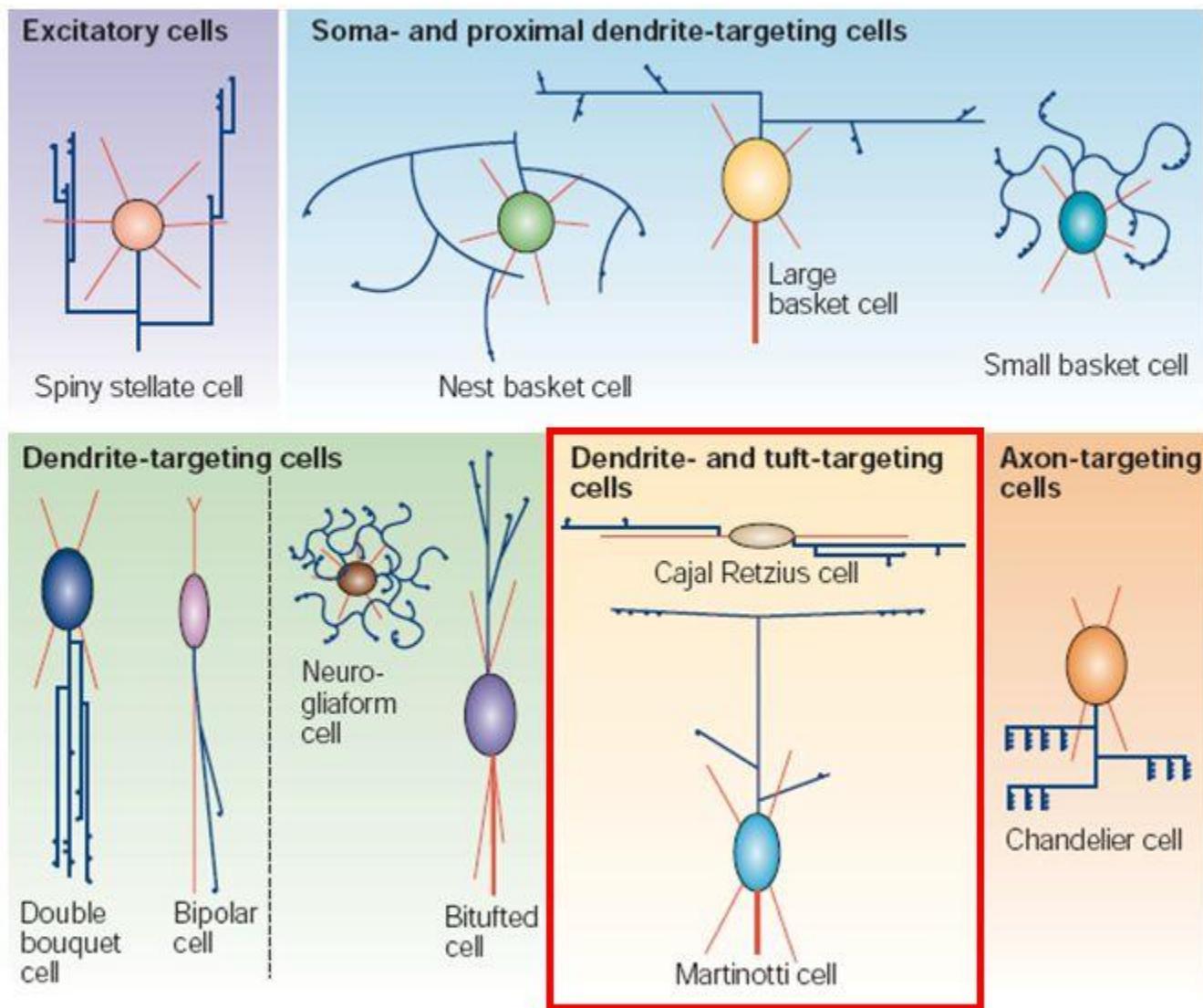
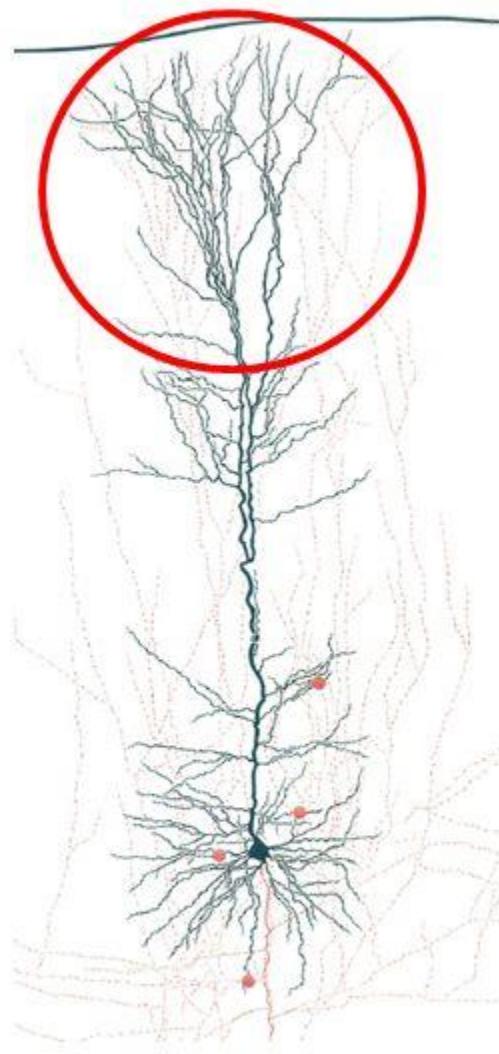
# Tipos Celulares

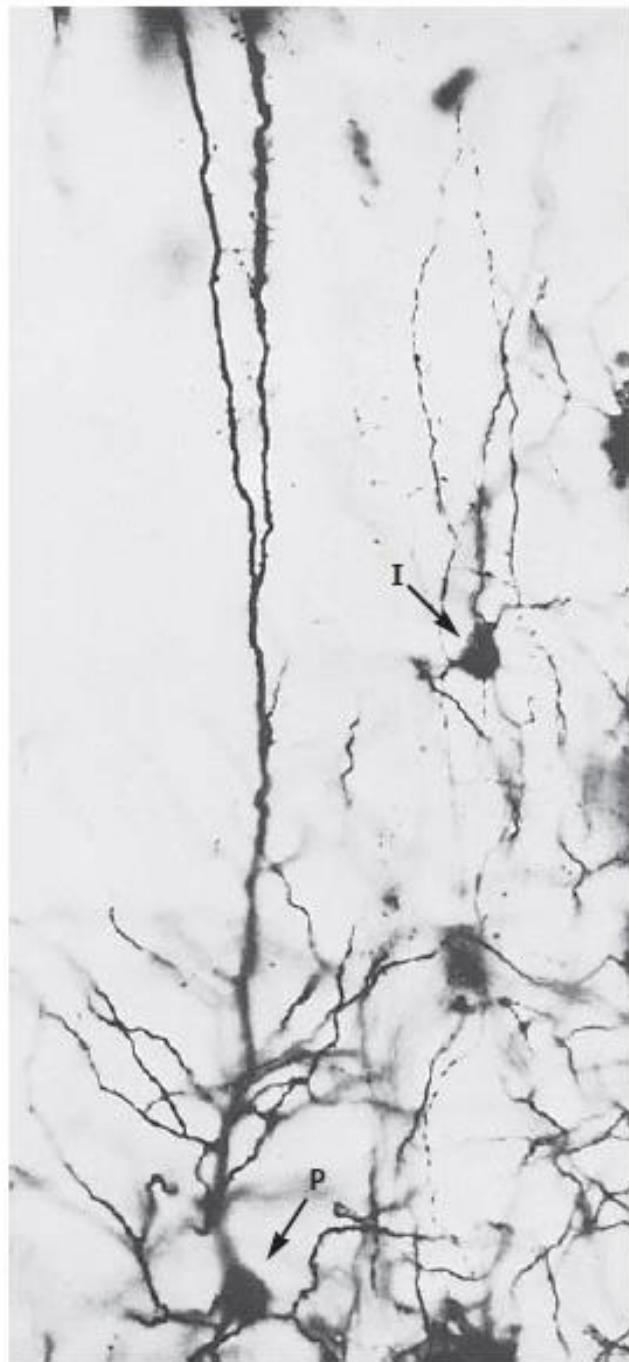


# Tipos Celulares

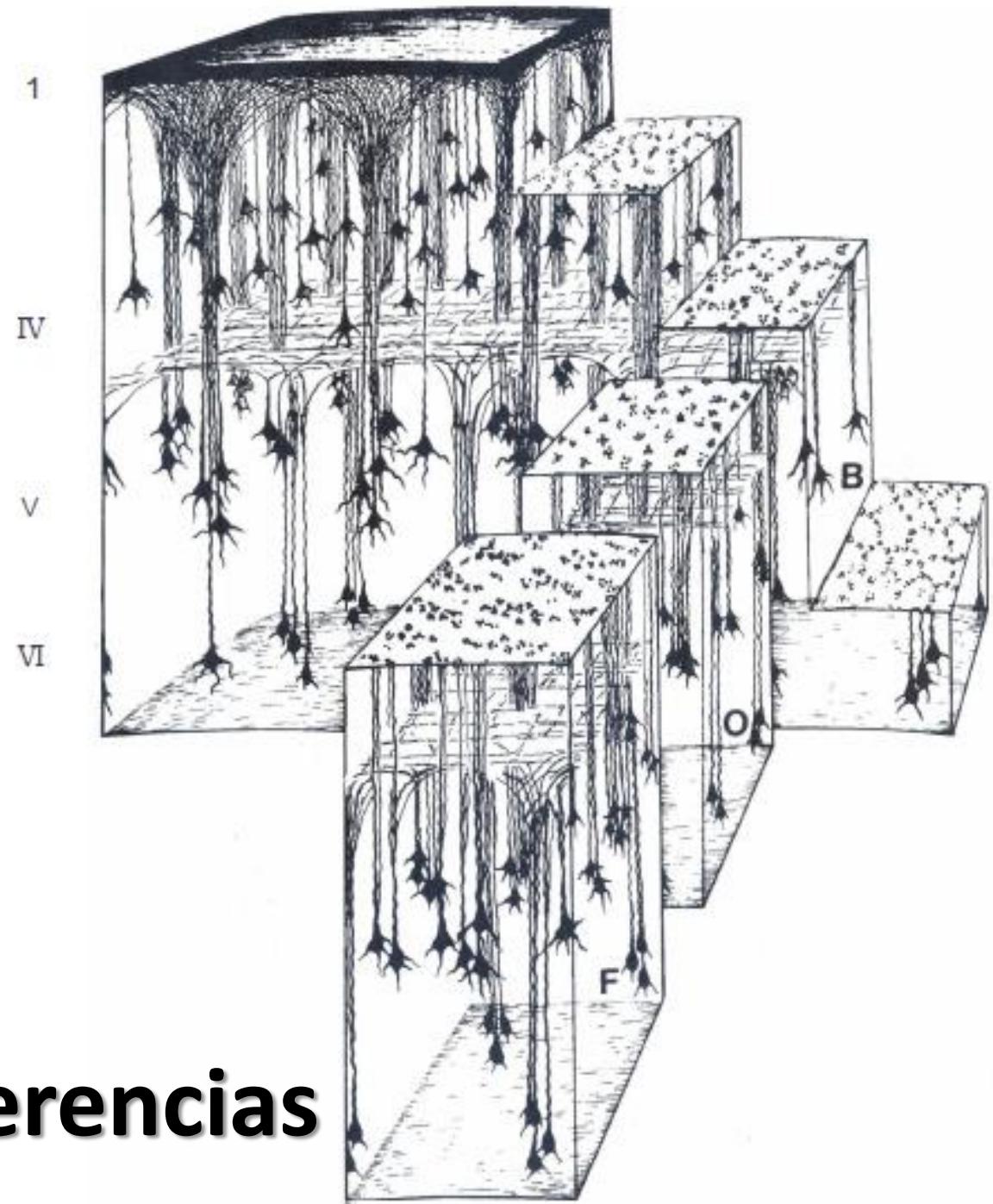


# Connections between interneurons & pyramidal neurons





# Aferencias y Eferencias



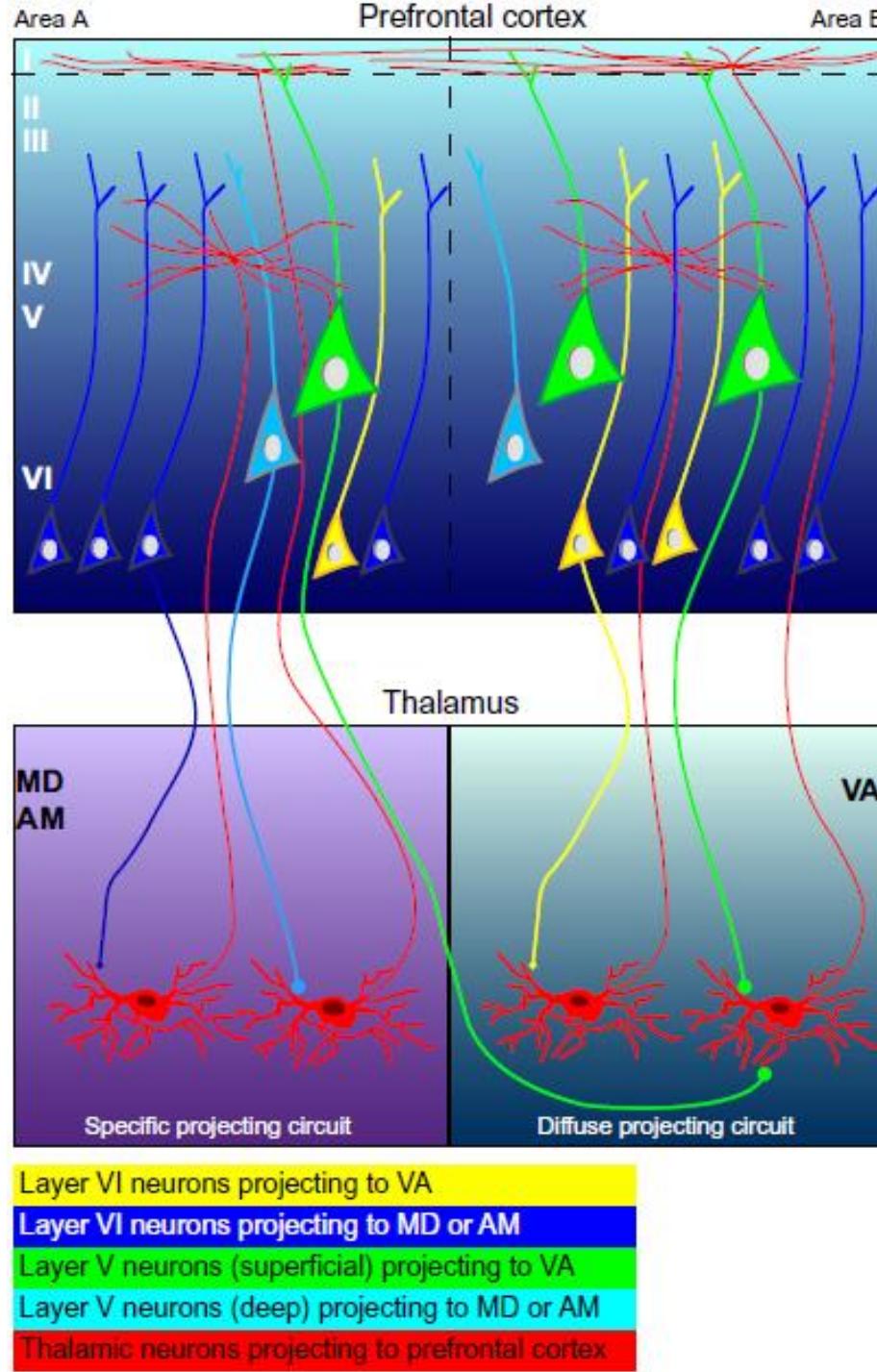
# Aferencias

- Estructuras Subcorticales – Tálamo
- Otras áreas corticales – Fibras Asociativas
- Áreas Corticales H. Opuesto – Fibras Comisurales
- Fibras del Tallo Cerebral

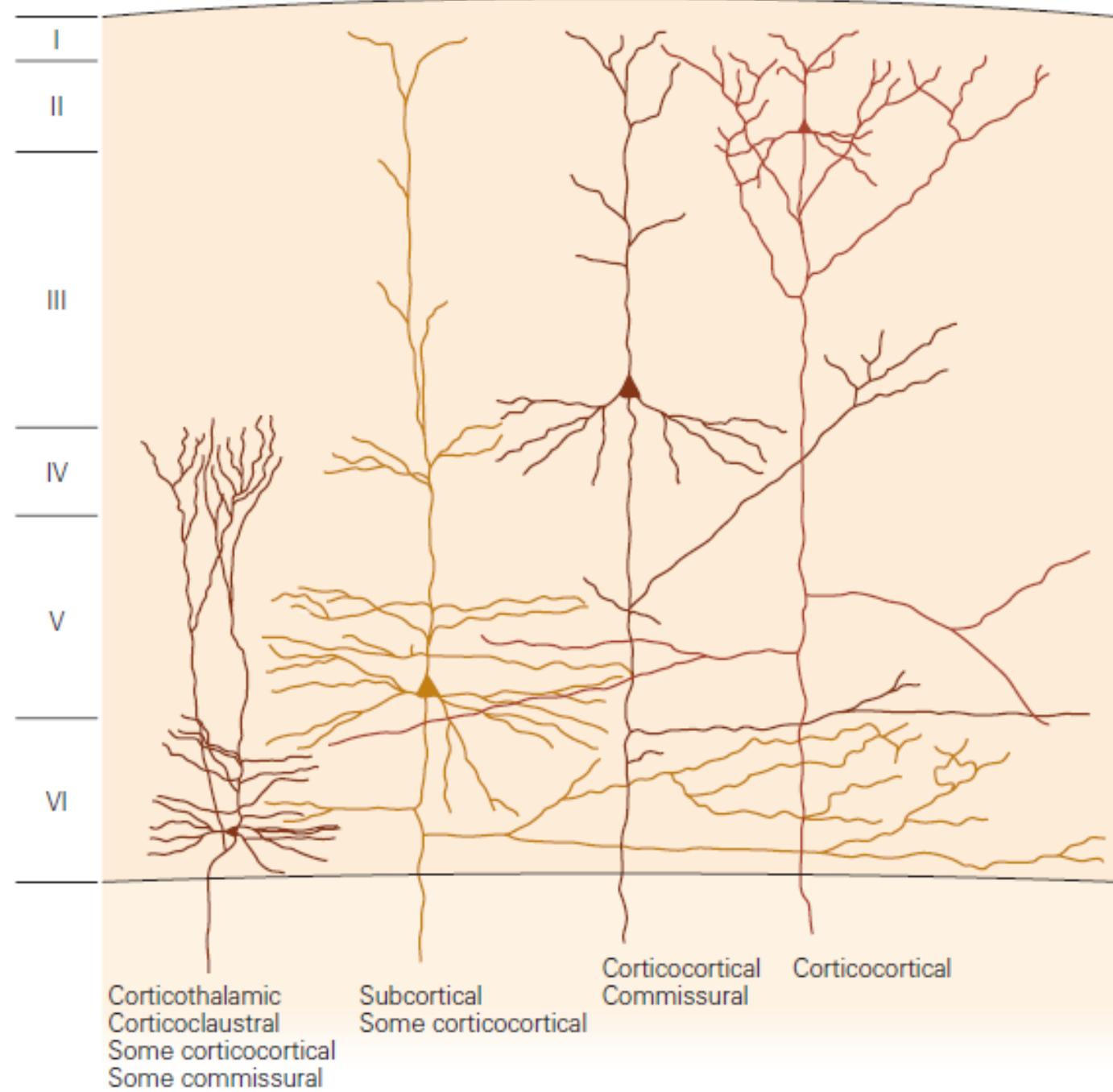
# Aferencias Talámicas

- Específicas
- Inespecíficas

# Aferencias Talámicas



# Eferencias



# Neurotransmisores

- Intrínsecos: Glutamato, GABA
- Extrínsecos: Norepinefrina, Serotonina, Dopamina.

YO SABÍA EXACTAMENTE QUIEN ERA.  
MI CONFLICTO DE IDENTIDAD EMPEZÓ  
CUANDO CONOCÍ LA OBRA DE UN TAL MAGRITTE.

