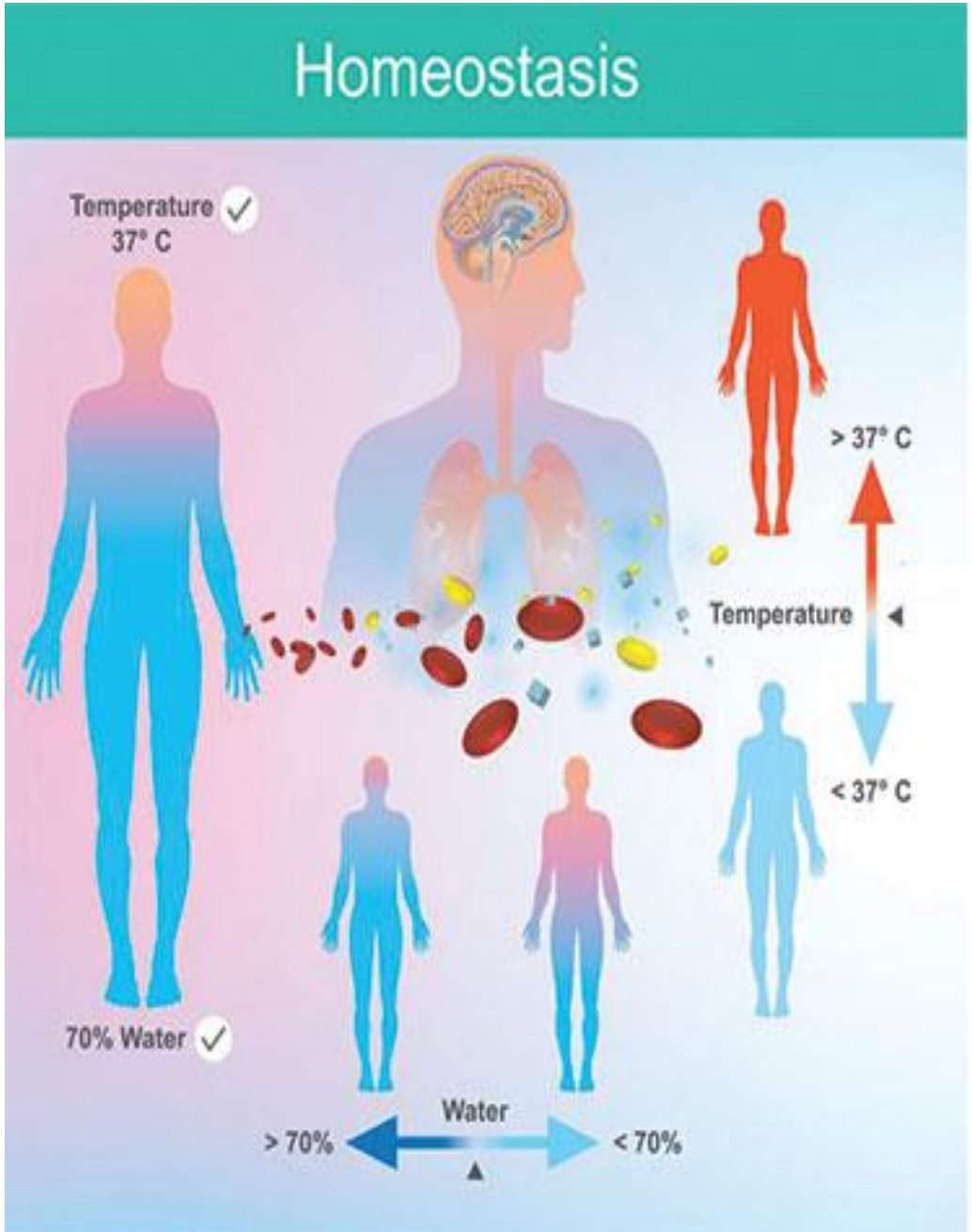
فیزیولوژی اعصاب و غدد، جلسه اول:

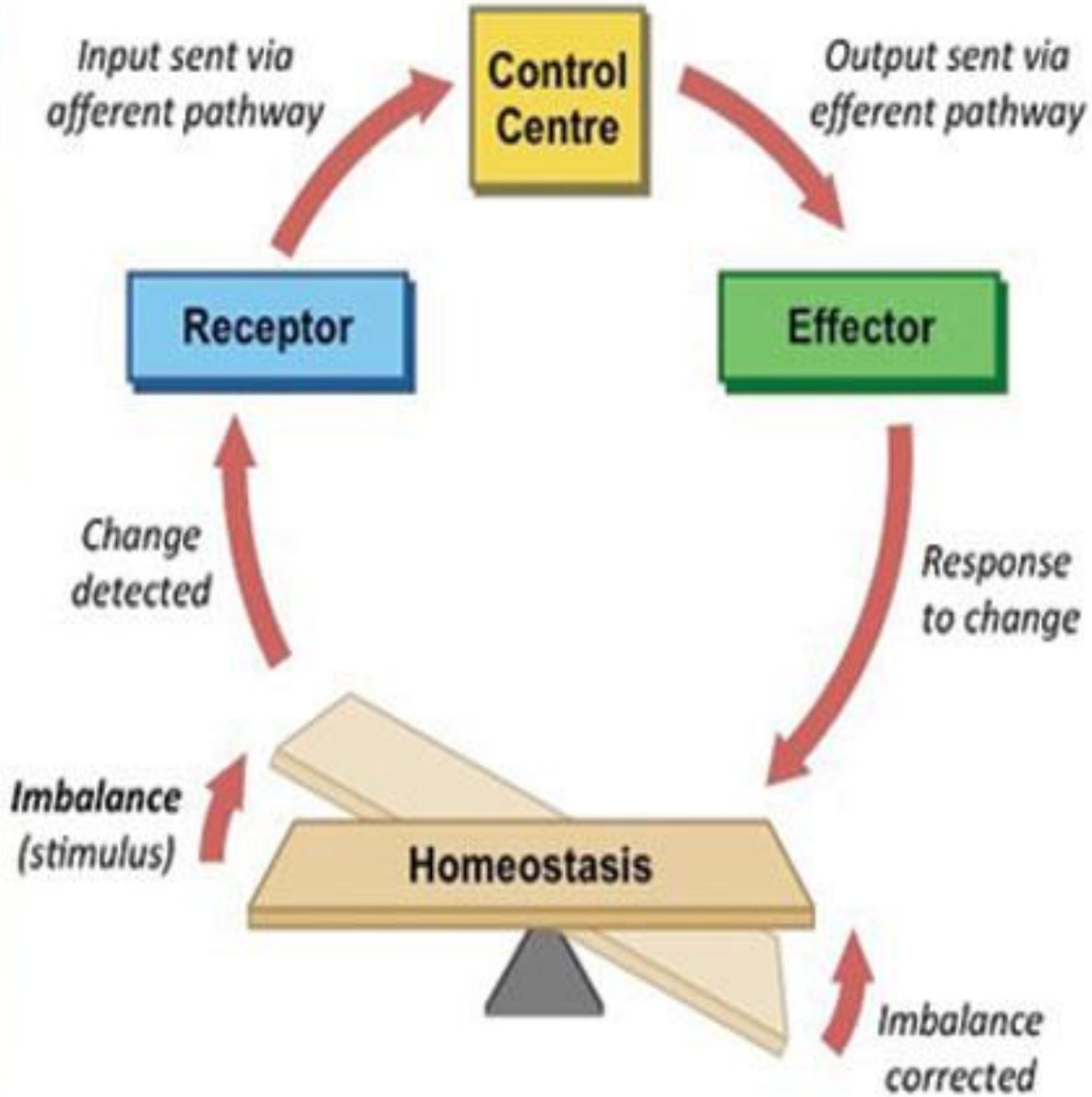
۱- هومئوستازی

۲- تنظیم های عصبی و هورمونی

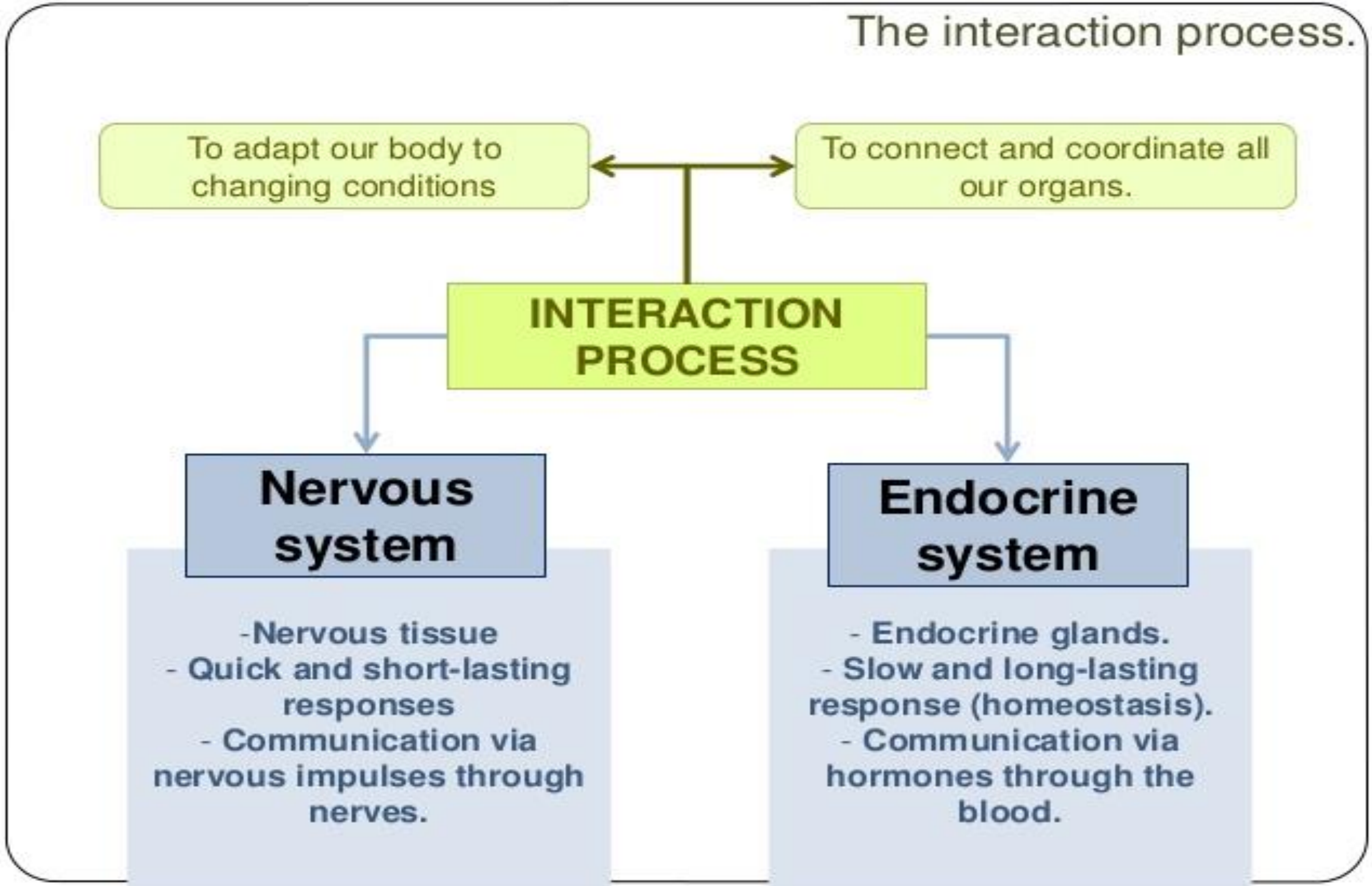
Homeostasis

- **Defined as maintenance of a relatively stable internal environment**
  - Does not mean that composition, temperature, and other characteristics are absolutely unchanging
- **Homeostasis is essential for survival and function of all cells**
- **Each cell contributes to maintenance of a relatively stable internal environment**

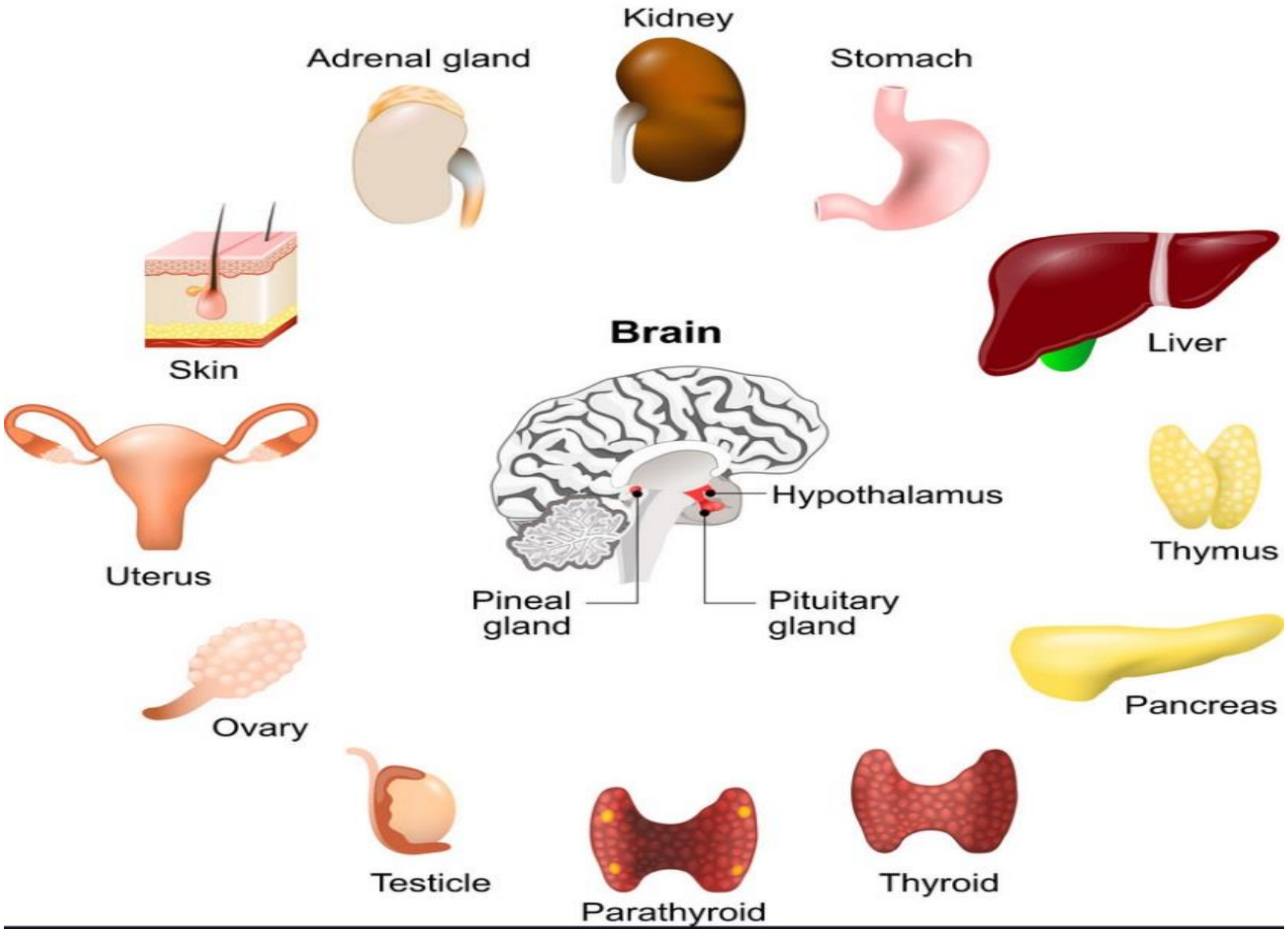

Homeostasis
Temperature
37° C
70% Water
> 37° C
Temperature
< 37° C
Water
> 70%
< 70%


Input sent via
afferent pathway
Control
Centre
Output sent via
efferent pathway
Receptor
Effector
Change
detected
Response
to change
Imbalance
(stimulus)
Homeostasis
Imbalance
corrected

The interaction process.



ENDOCRINE SYSTEM



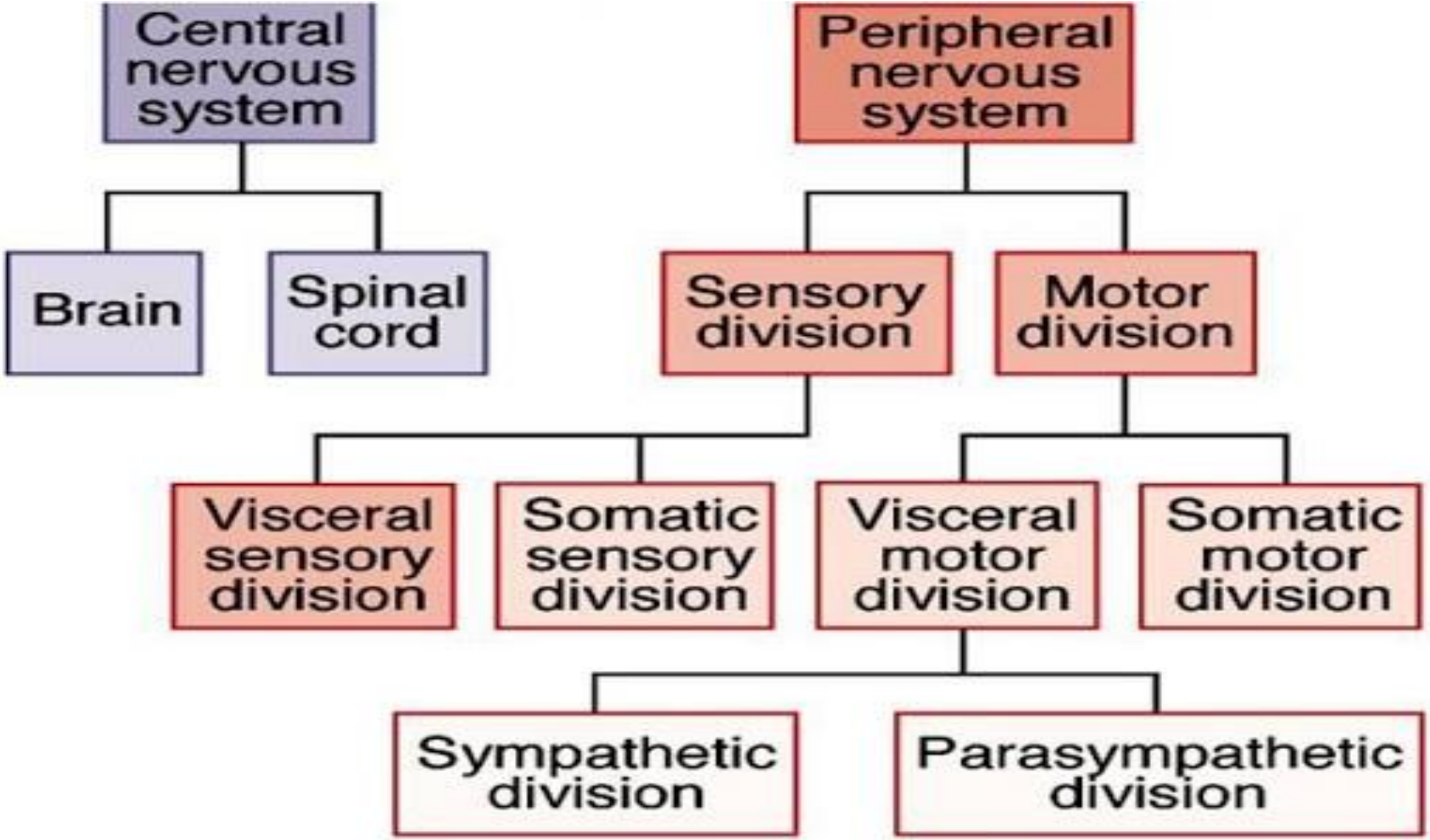
فیزیولوژی اعصاب و غدد، جلسه دوم:

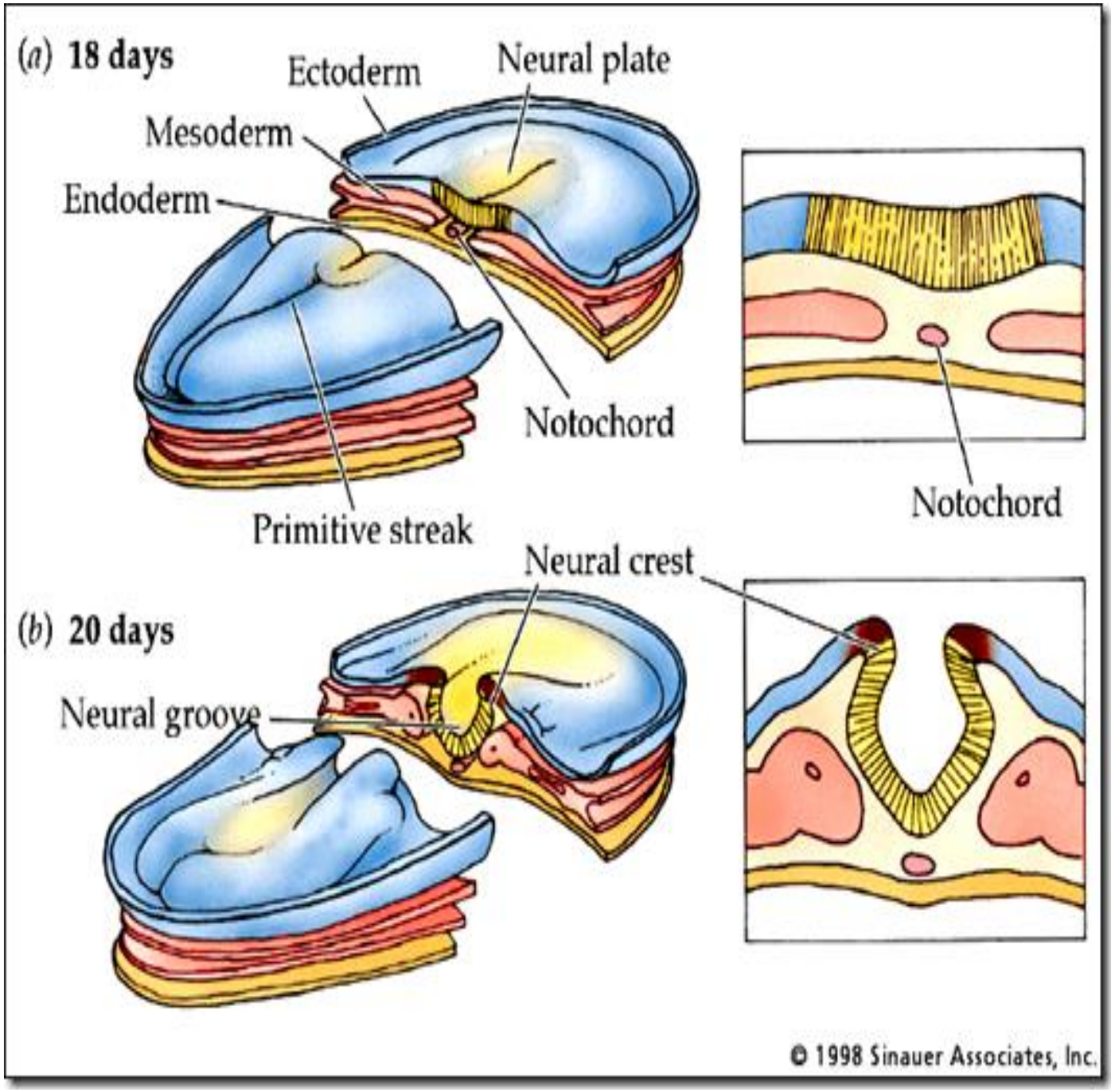
۱- دستگاه های عصبی مرکزی و محیطی

۲- بخش های دستگاه عصبی

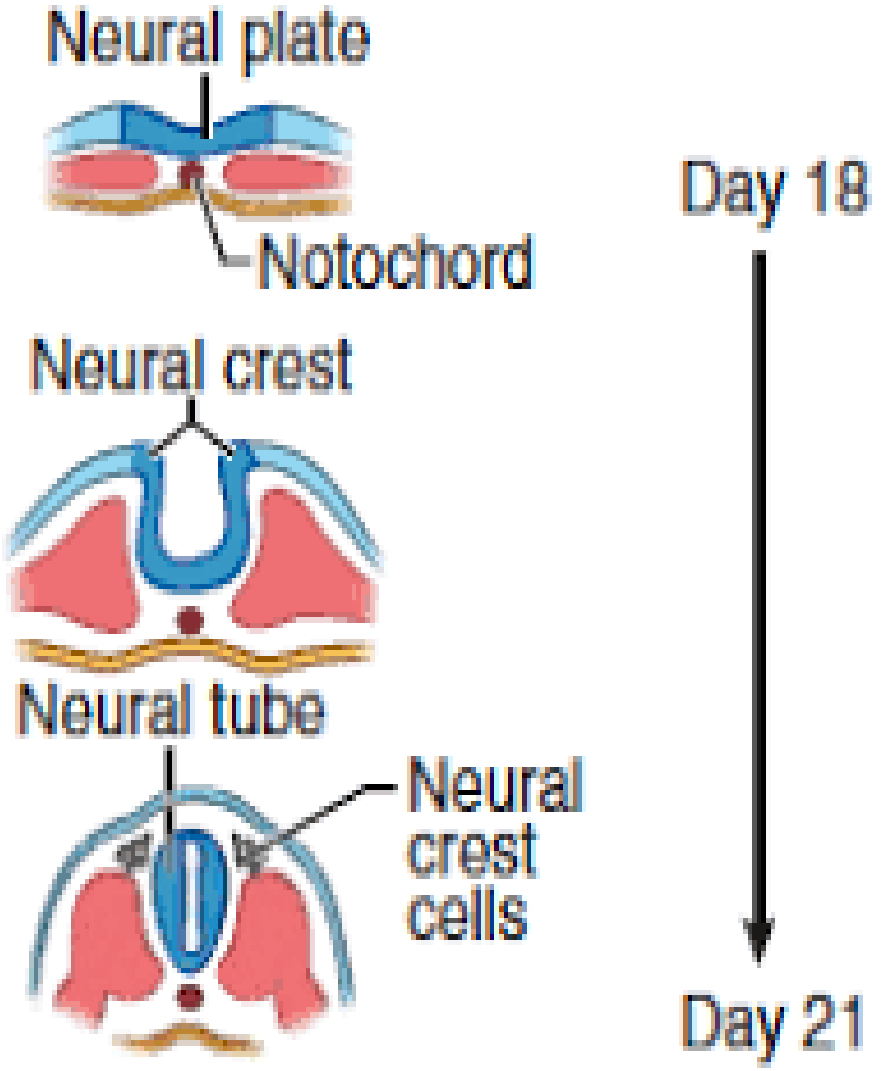
۳- سطوح دستگاه عصبی مرکزی

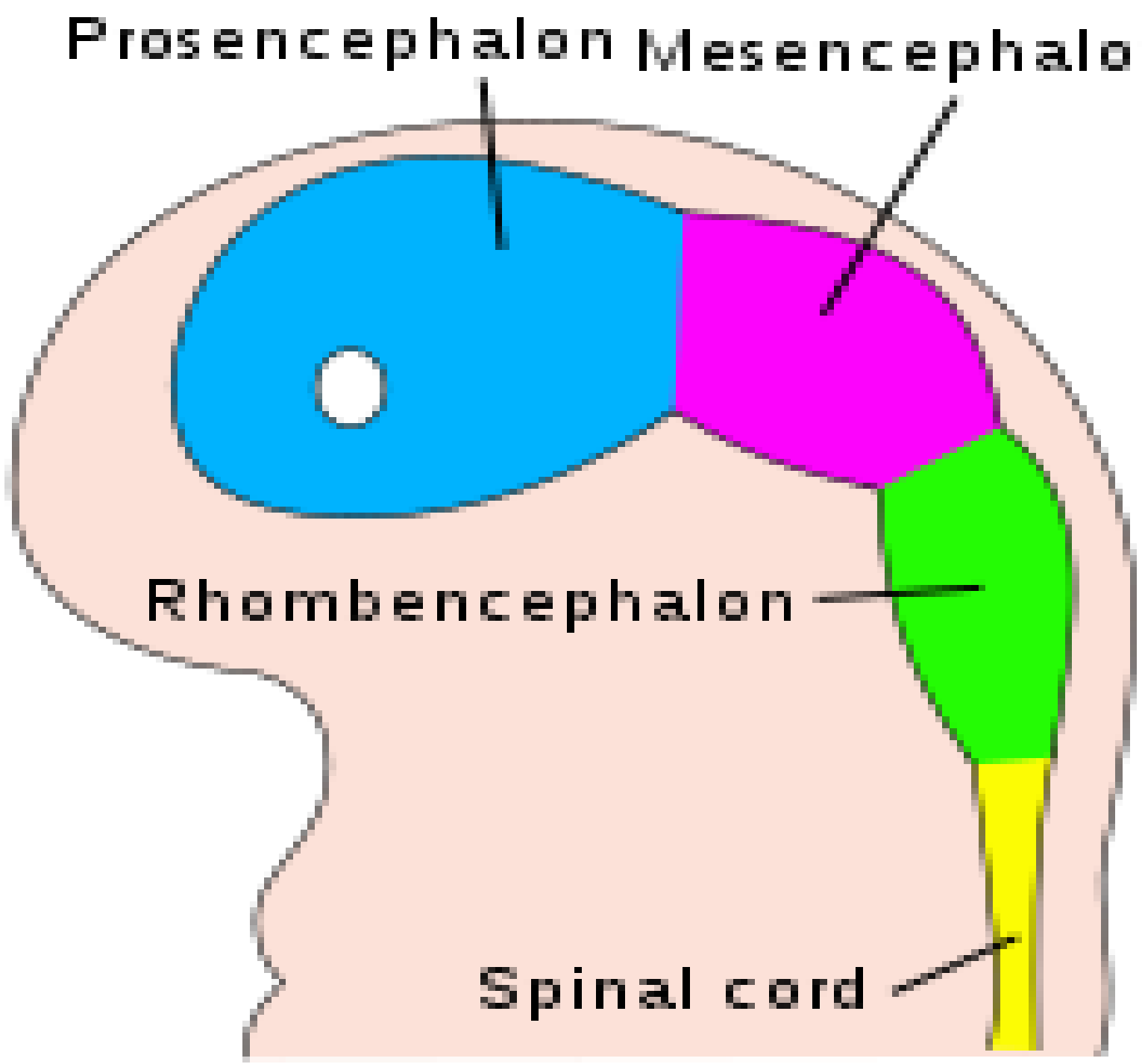
۴- تکوین جنینی دستگاه عصبی مرکزی


Central nervous system
Peripheral nervous system
Brain
Spinal cord
Sensory division
Motor division
Visceral sensory division
Somatic sensory division
Visceral motor division
Somatic motor division
Sympathetic division
Parasympathetic division



Neural development




Prosencephalon
Mesencephalon
Rhombencephalon
Spinal cord

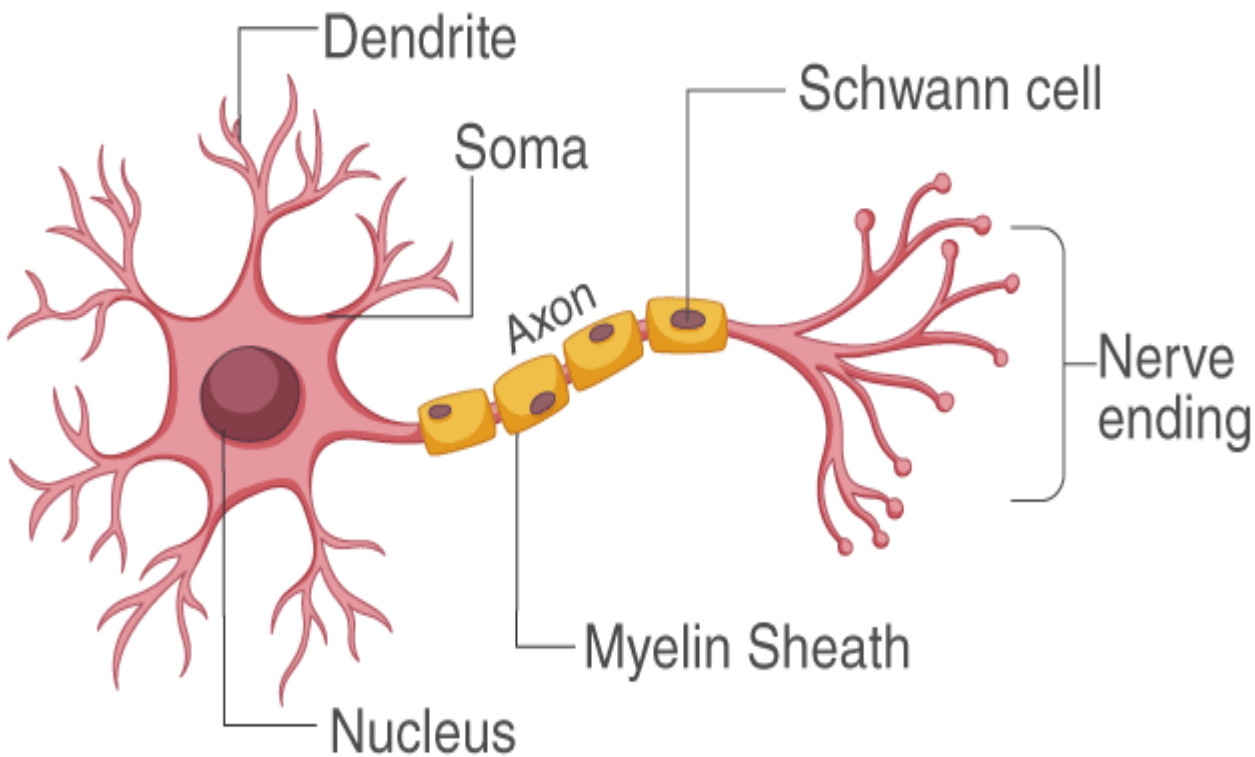
فیزیولوژی اعصاب و غدد، جلسه سوم:

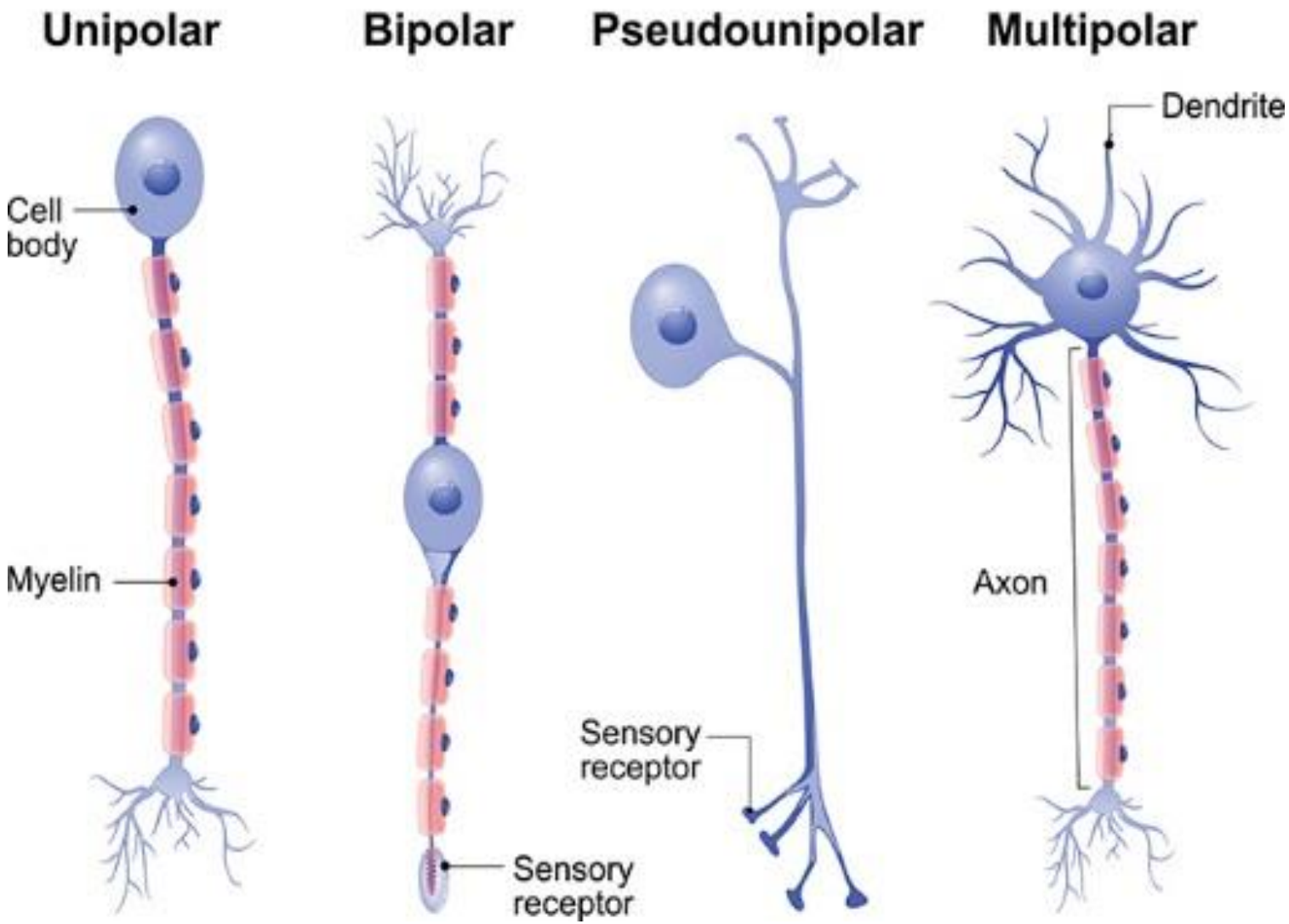
۱- نورون

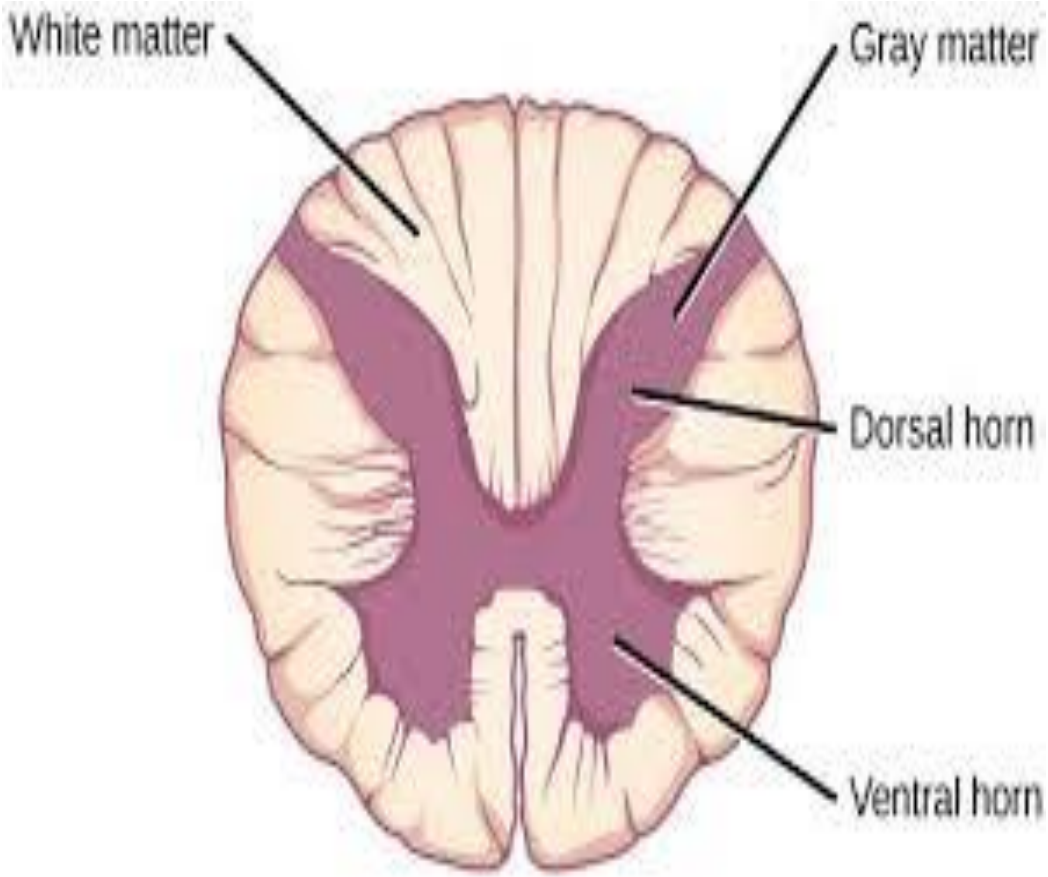
۲- مواد سفید و خاکستری بافت عصبی

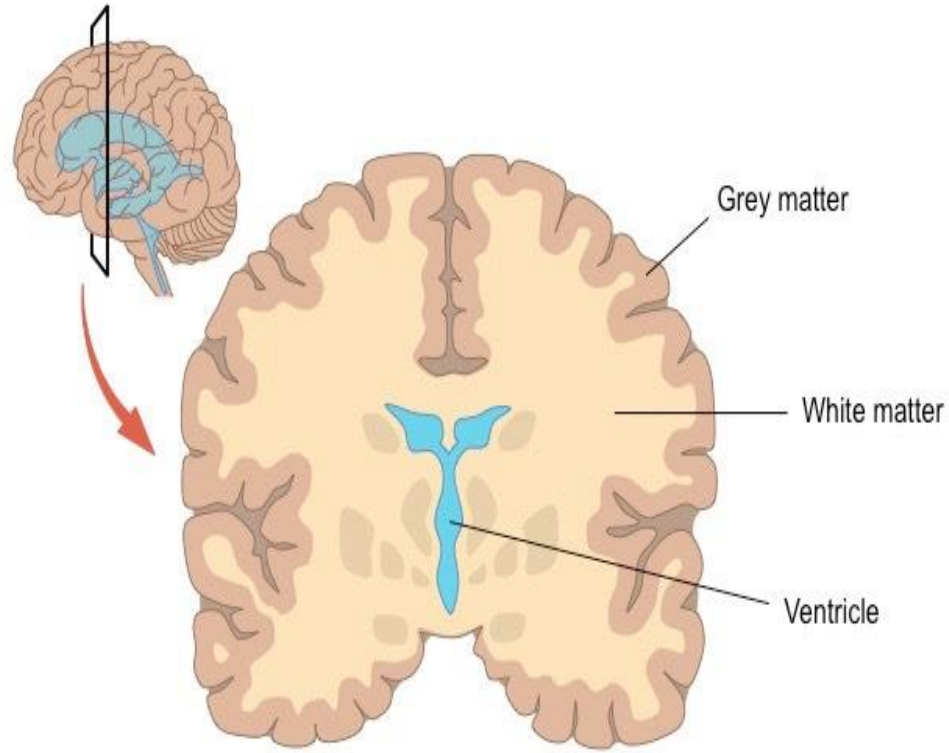
۳- بافت نوروگلی

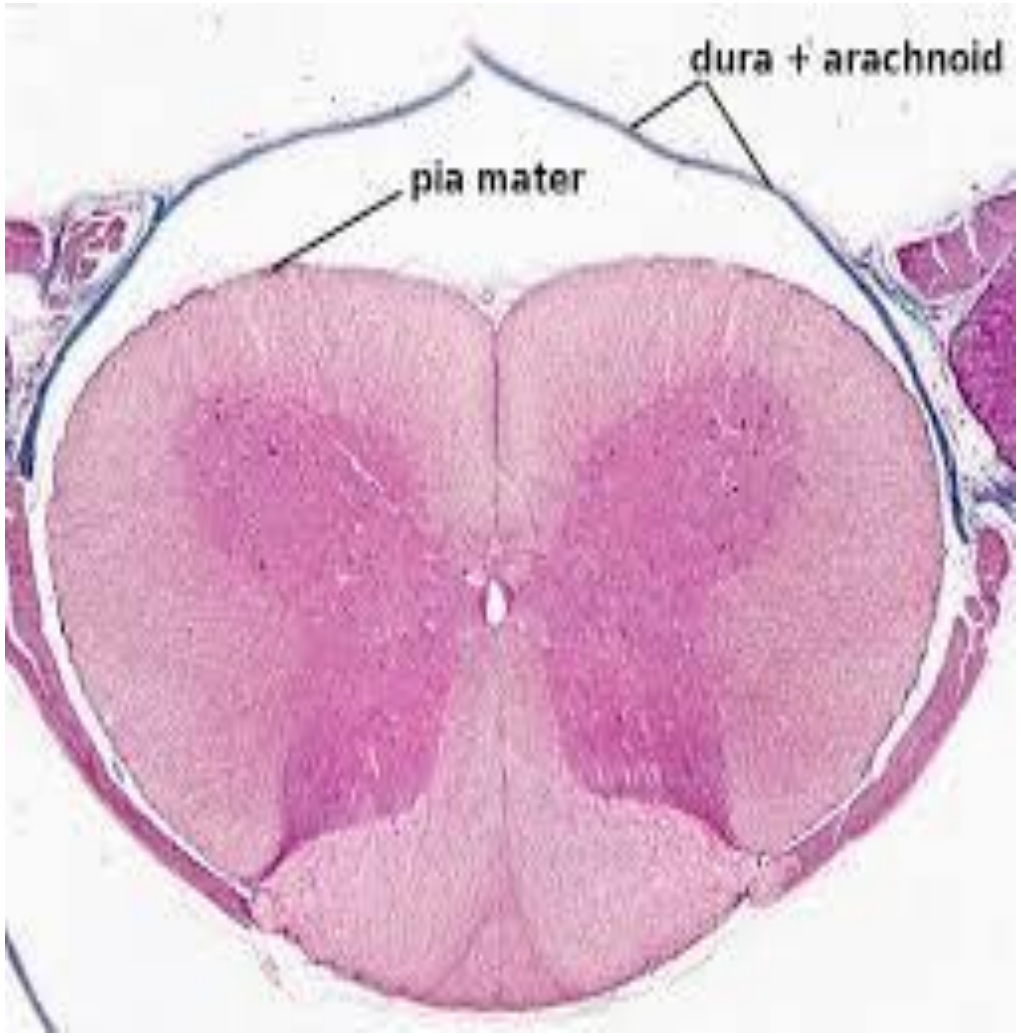
STRUCTURE OF NEURON

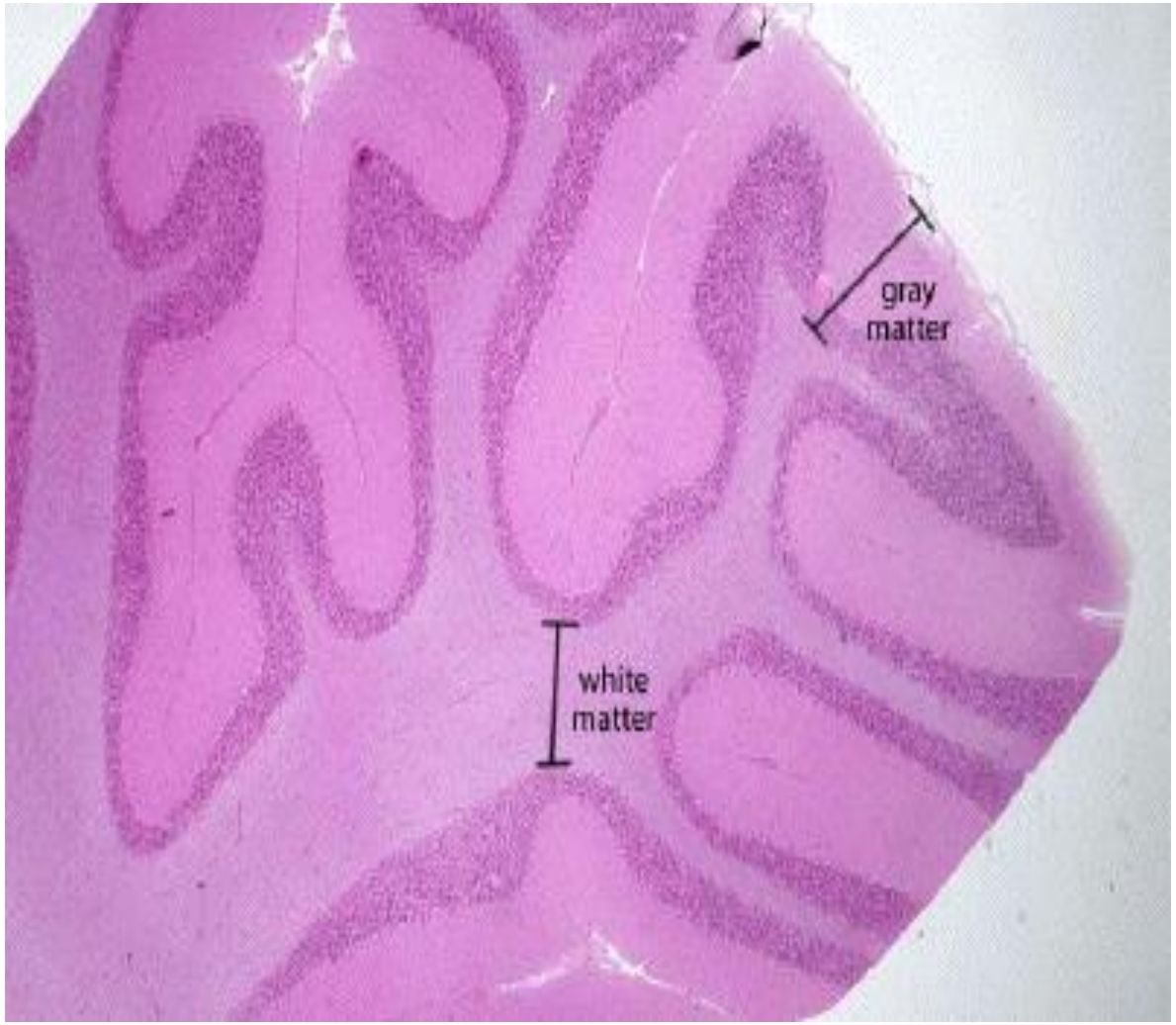


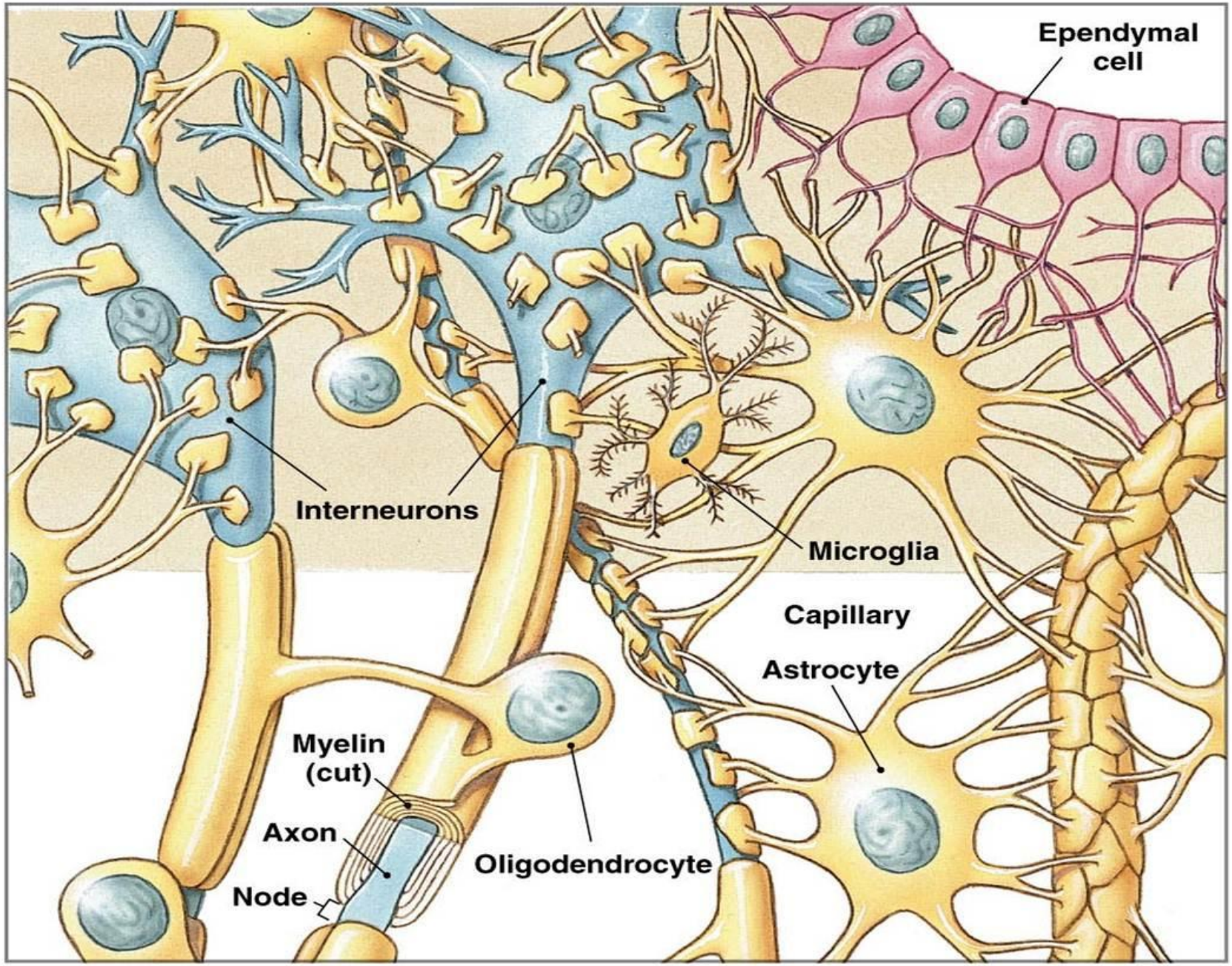

Unipolar
Bipolar
Pseudounipolar
Multipolar
Cell body
Myelin
Sensory receptor
Sensory receptor
Dendrite
Axon

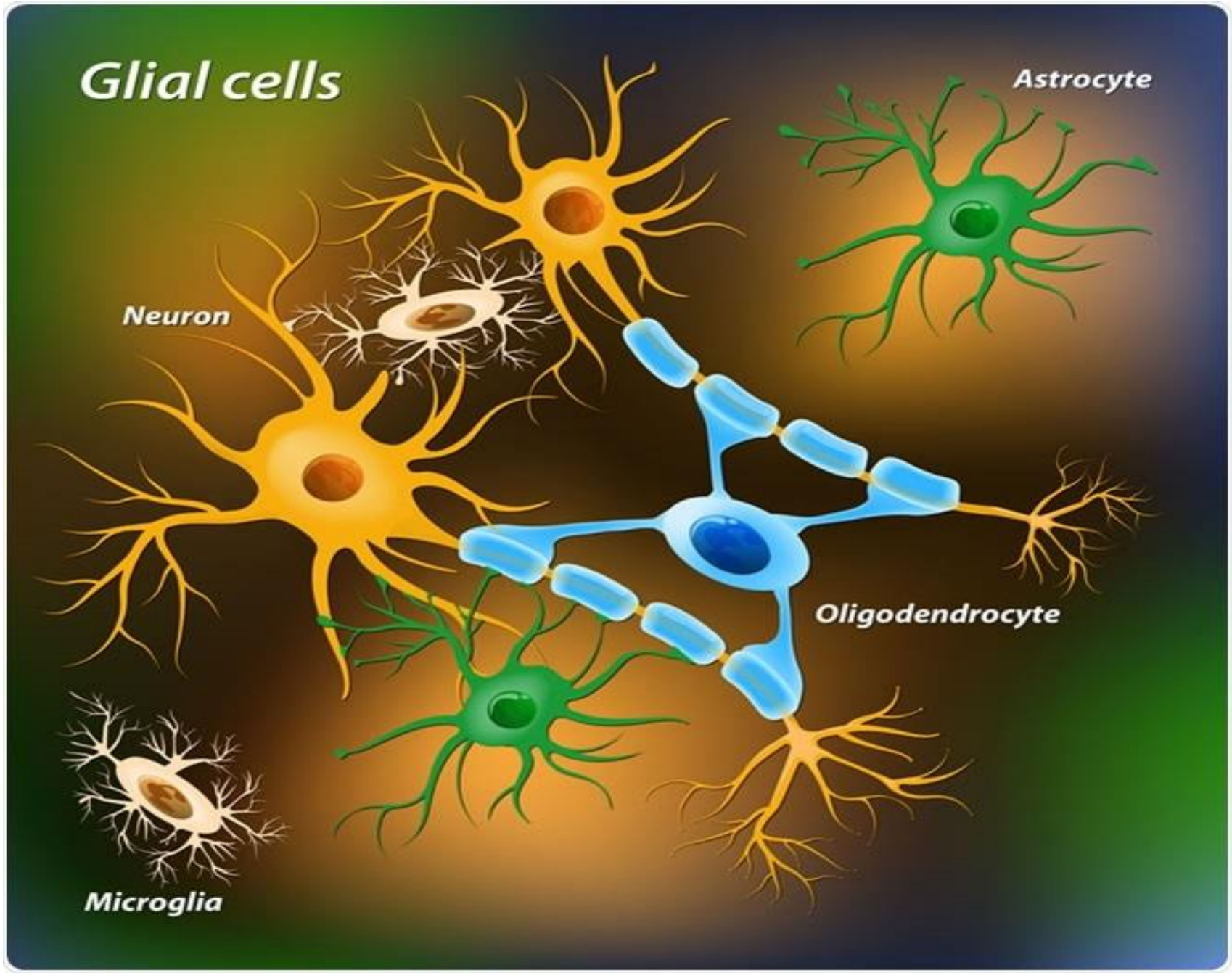

White matter
Gray matter
Dorsal horn
Ventral horn


Grey matter
White matter
Ventricle


dura + arachnoid
pia mater


gray matter
white matter


Ependymal cell
Interneurons
Microglia
Capillary
Astrocyte
Myelin (cut)
Axon
Node
Oligodendrocyte

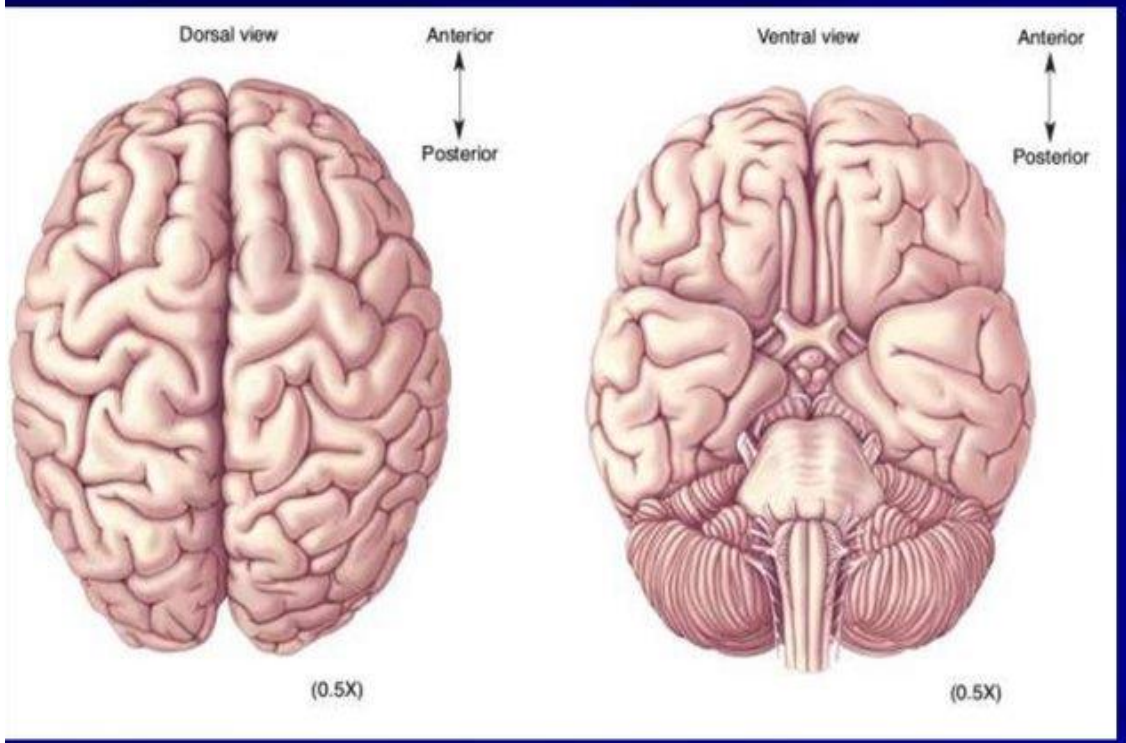

Glial cells
Astrocyte
Neuron
Oligodendrocyte
Microglia

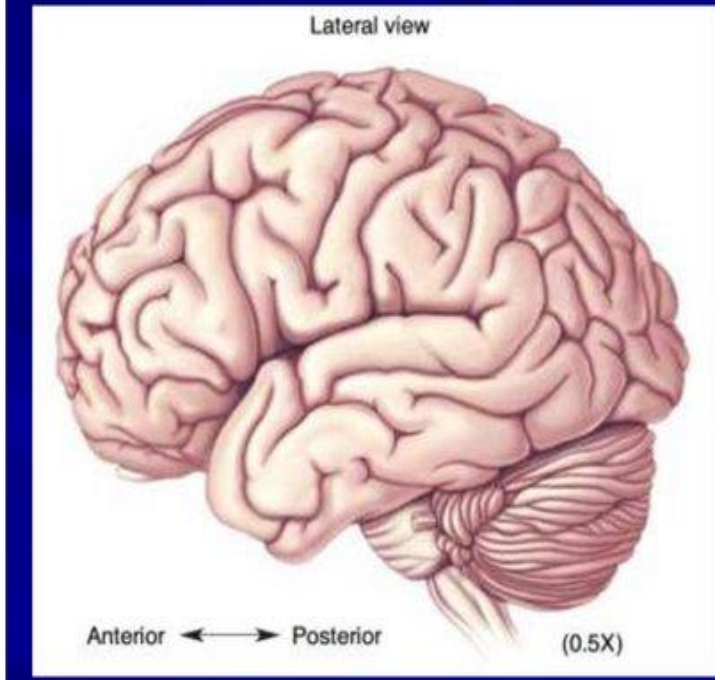
فیزیولوژی اعصاب و غدد، جلسه چهارم:

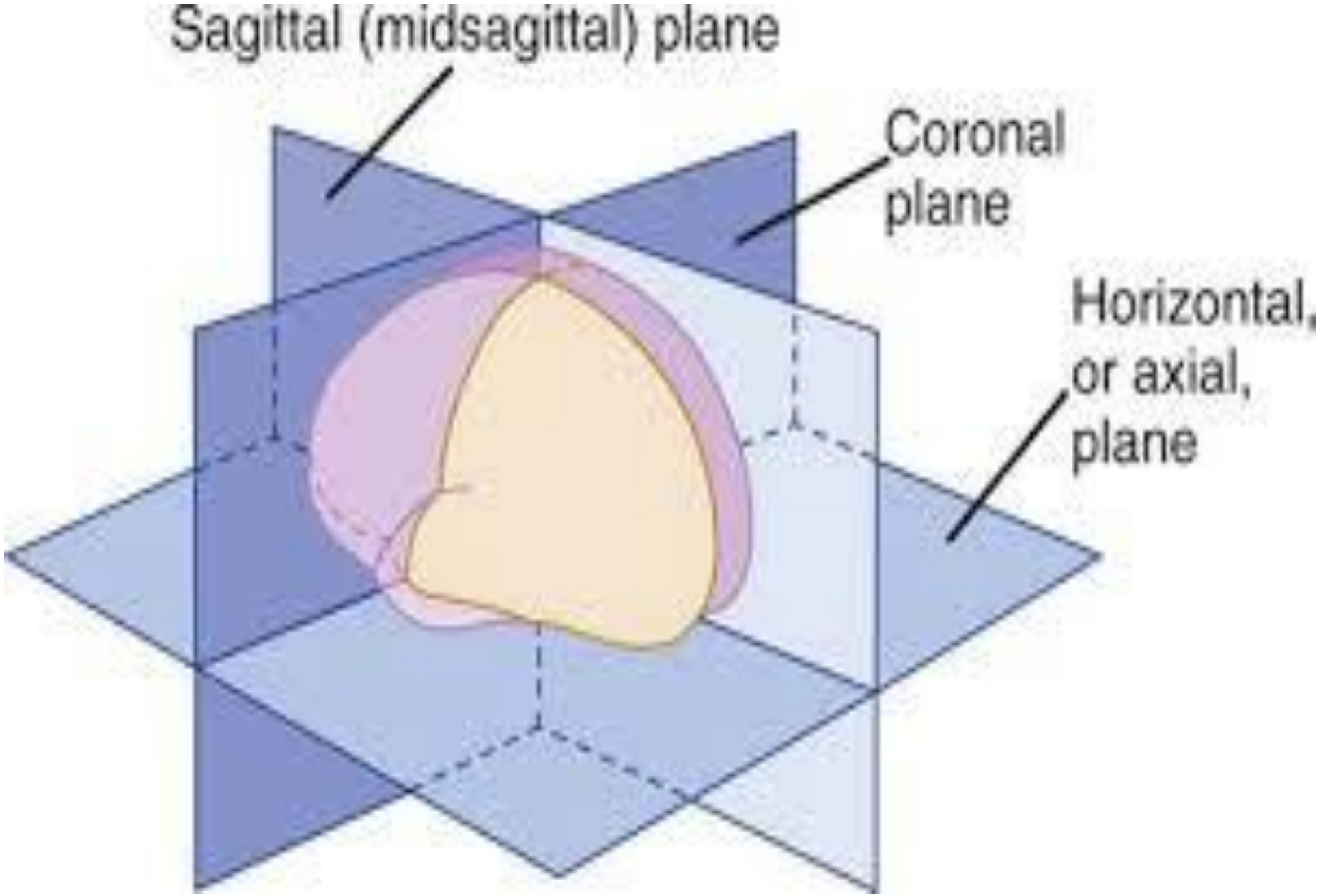
تشریح فیزیولوژیکی مغز(قسمت اول)

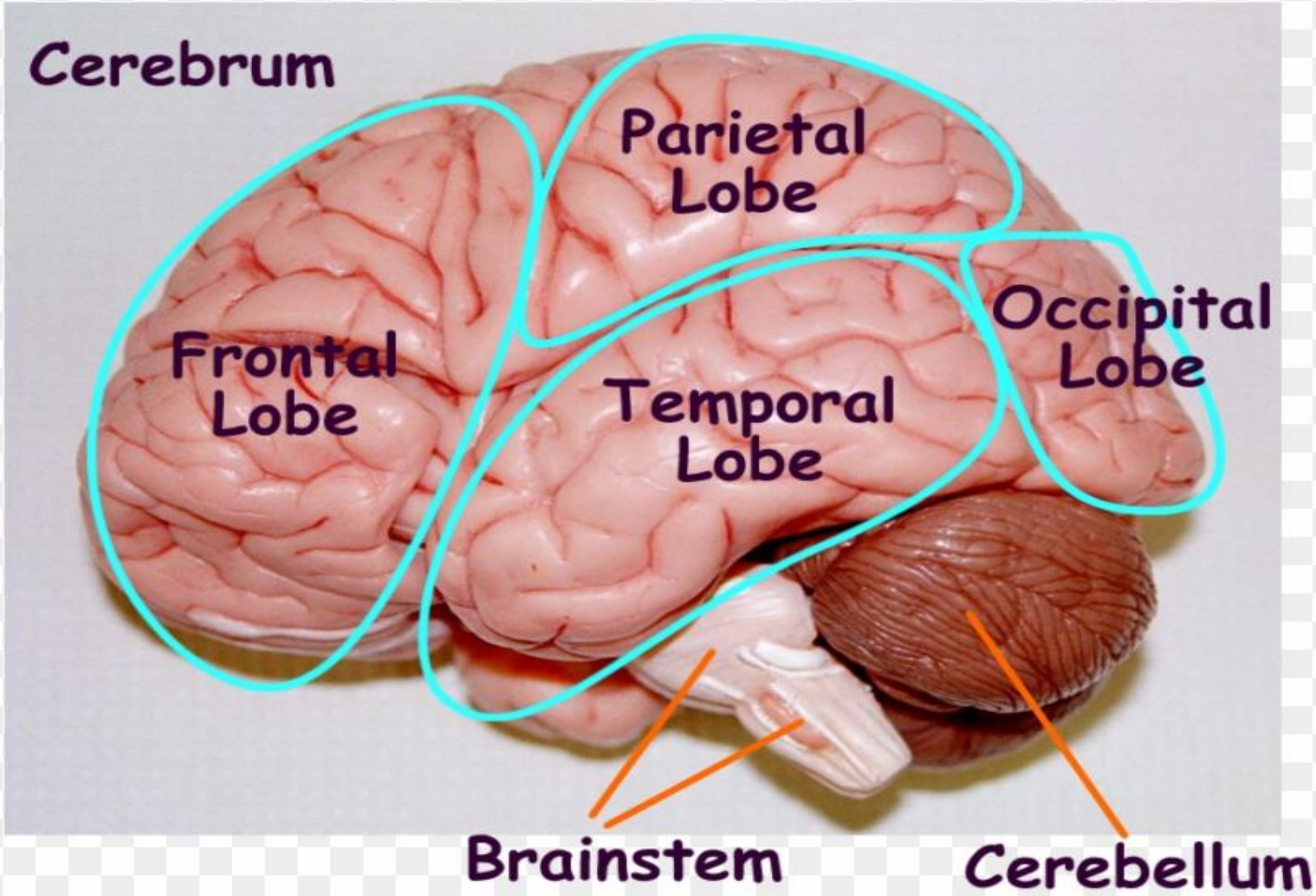
Anatomy of the human brain

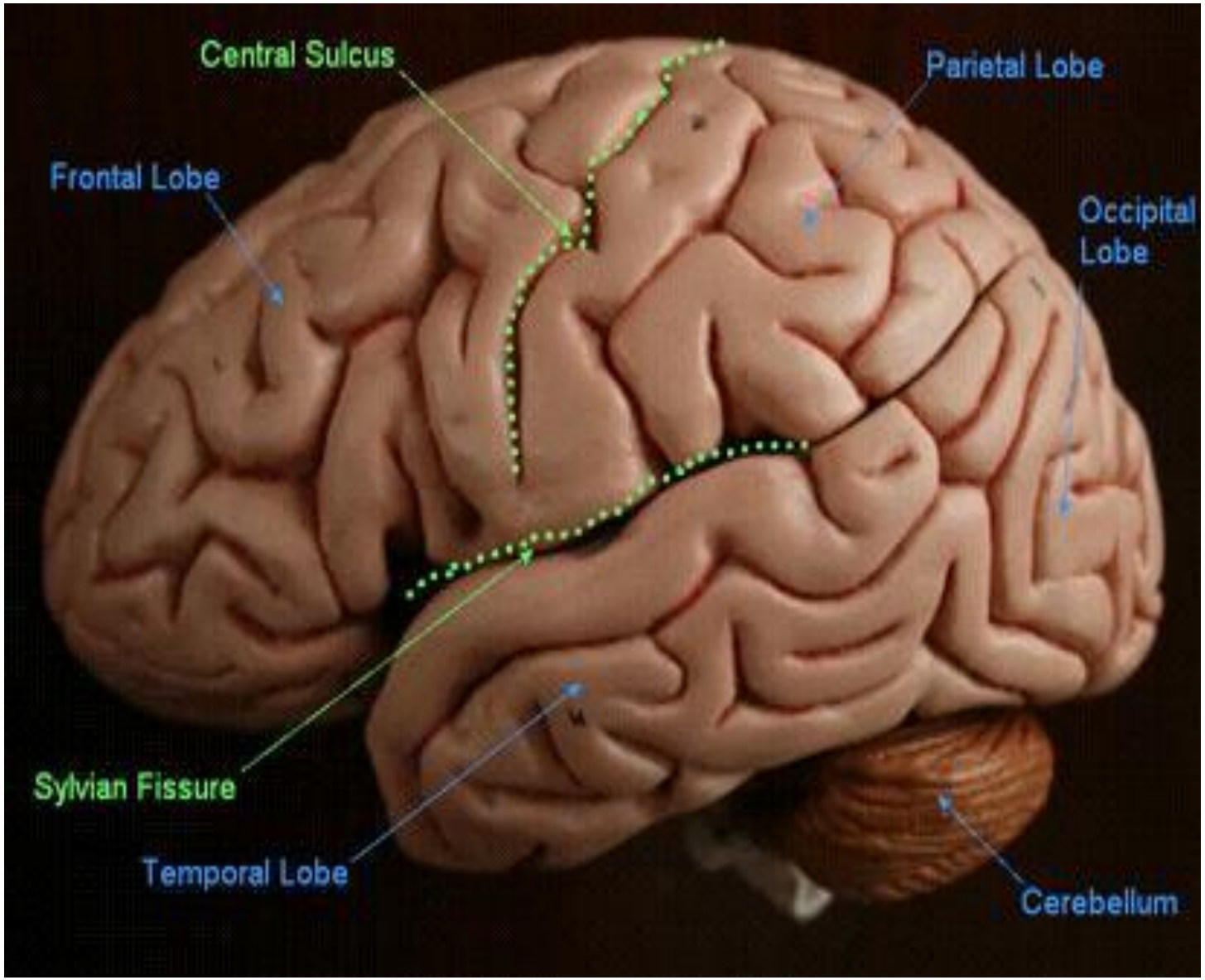
- Surface anatomy of the brain

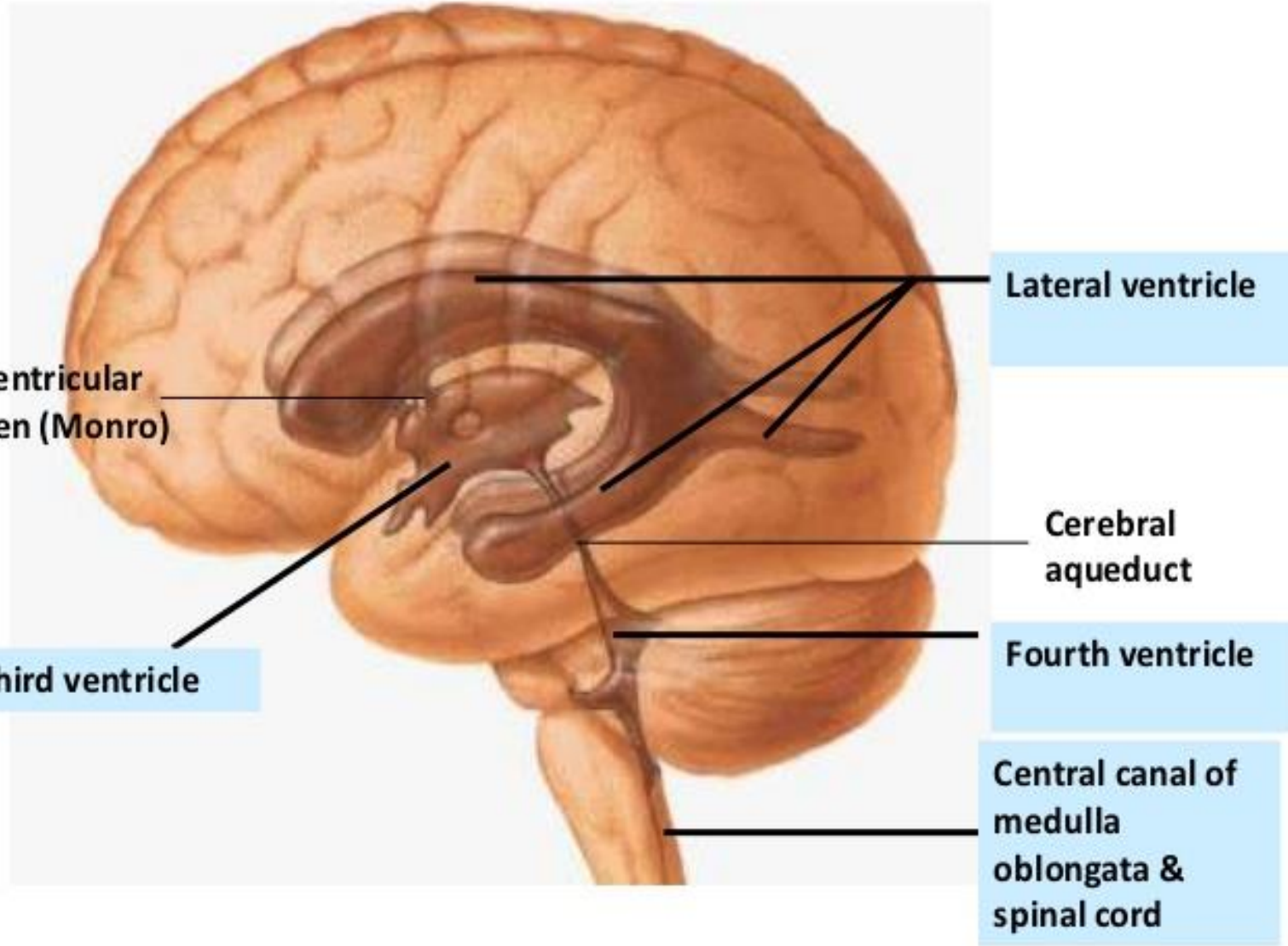





Sagittal (midsagittal) plane
Coronal plane
Horizontal, or axial, plane


Cerebrum
Parietal Lobe
Occipital Lobe
Frontal Lobe
Temporal Lobe
Brainstem
Cerebellum


Central Sulcus
Parietal Lobe
Frontal Lobe
Occipital Lobe
Sylvian Fissure
Temporal Lobe
Cerebellum



Lateral view to show the ventricular system of the CNS