

Midbrain

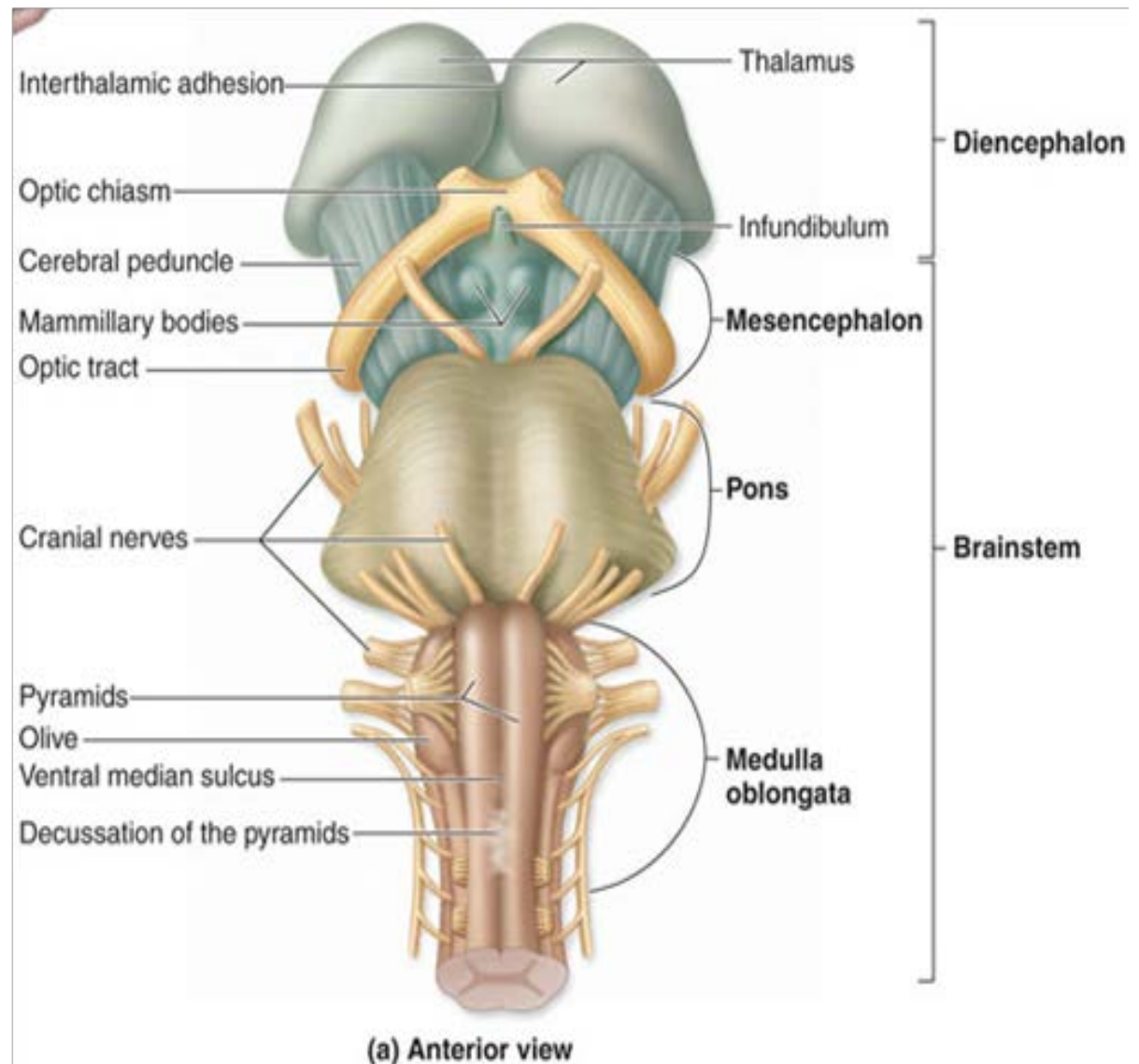


EXTERNAL VIEW

INTERNAL STRUCTURE

Anterior view

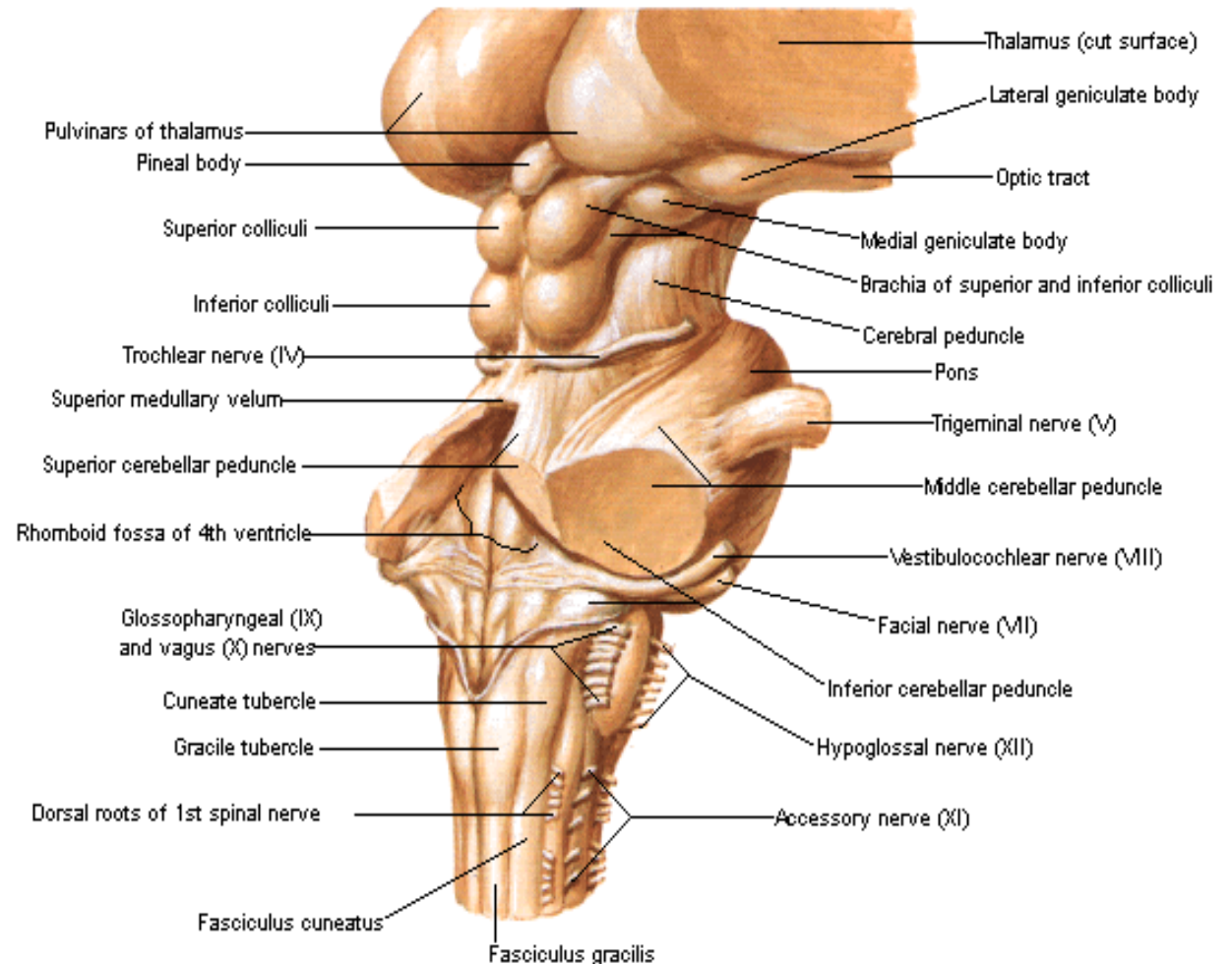
1. Crus cerebri
2. Oculomotor nerve
3. Post. Perforated substance

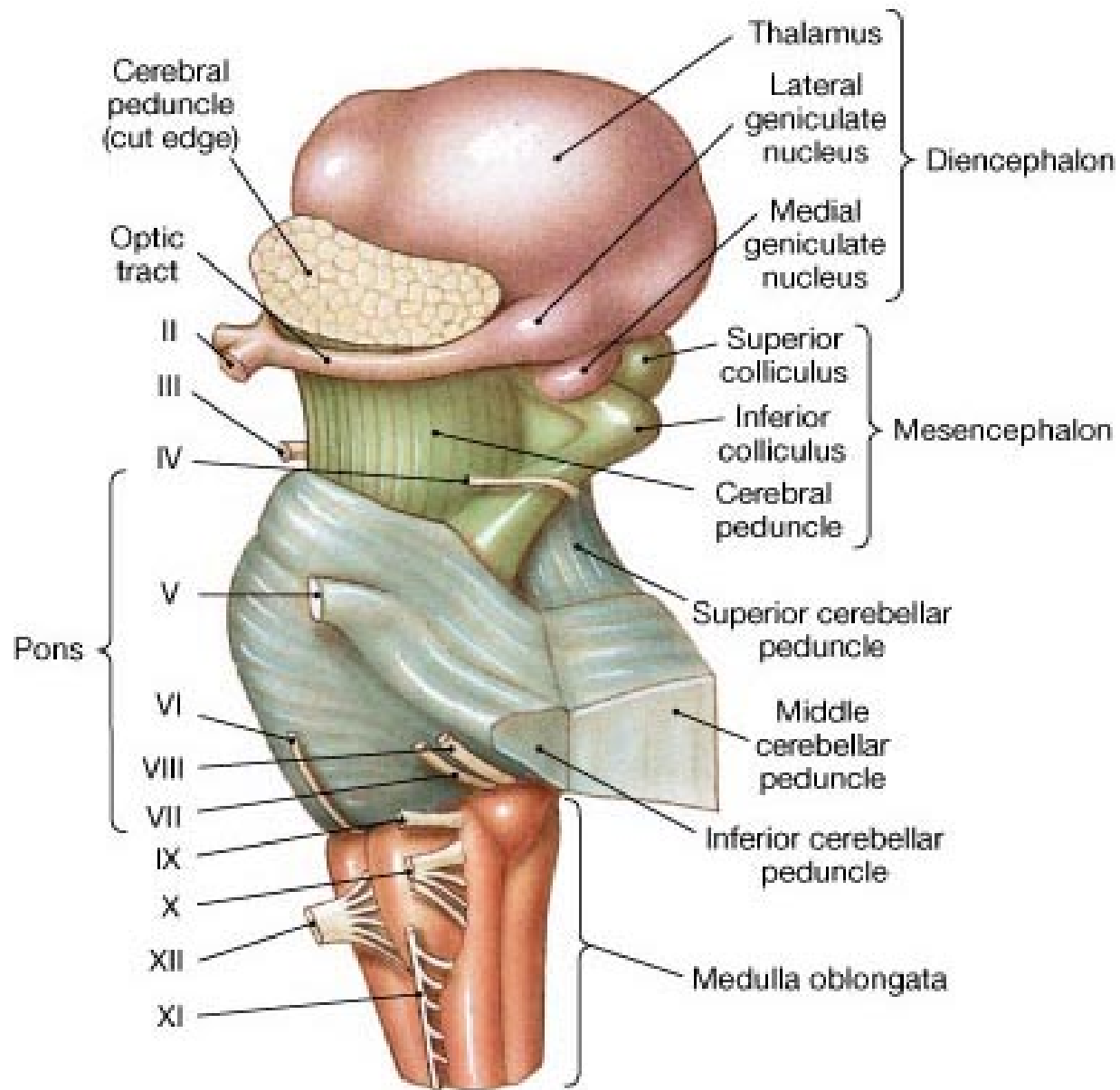


Posterolateral view

1. Brachium of sup. Colliculus
2. Brachium of inf. Colliculus
3. Trochlear nerve

Brainstem Posterolateral View

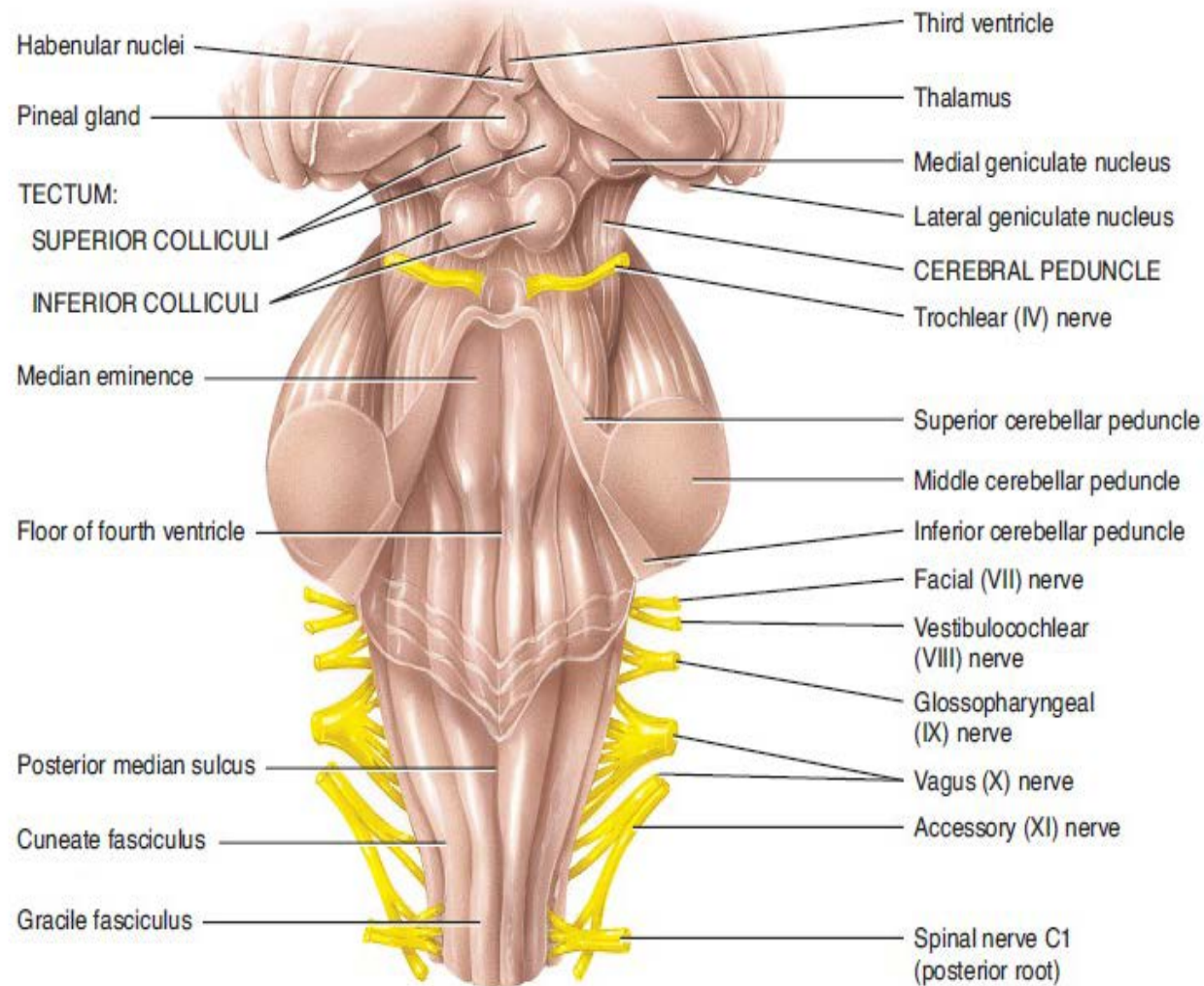


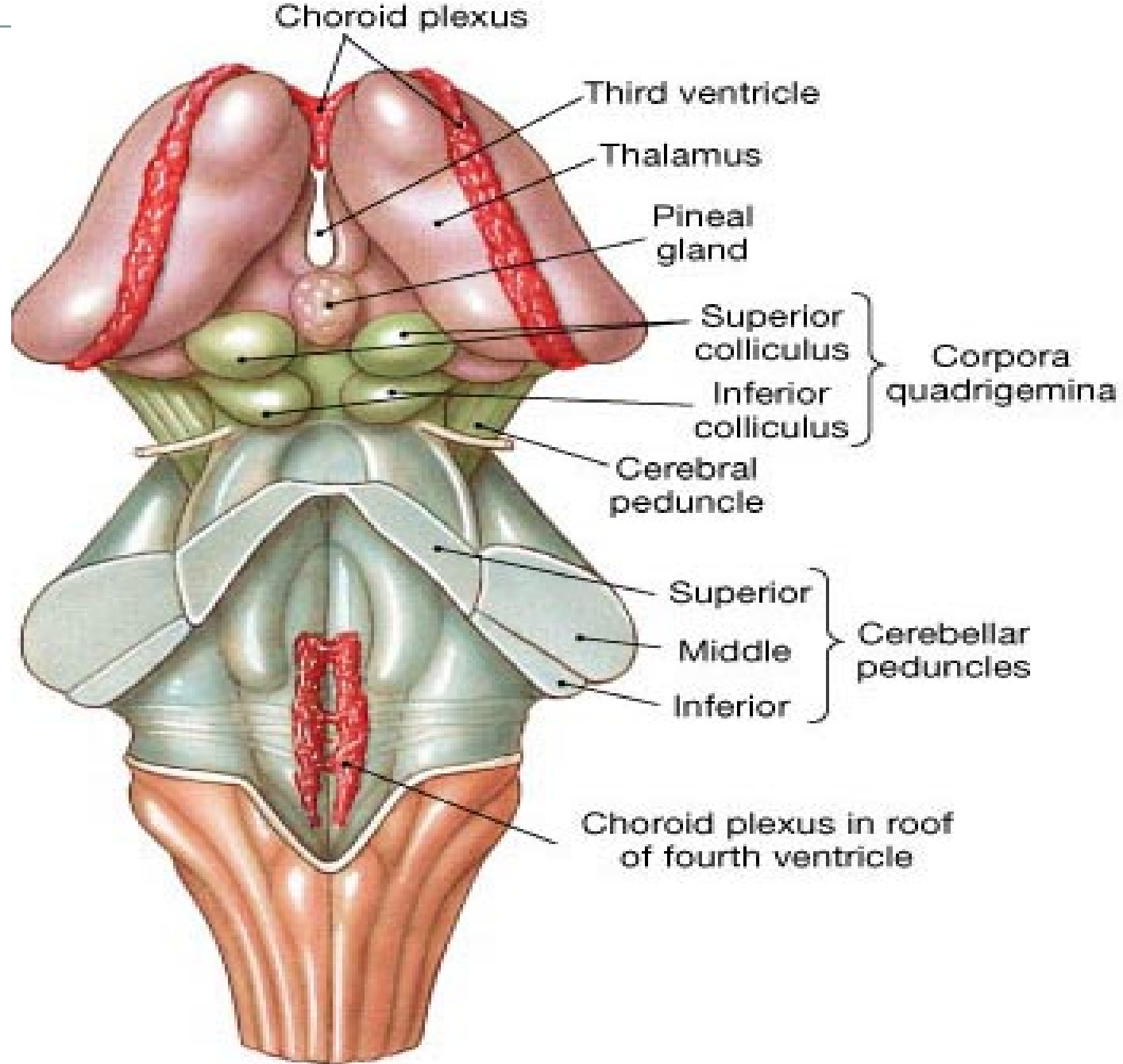


(a) Lateral view

Posterior view

1. Inf. Colliculus
2. Sup. Colliculus
3. Pineal body
4. Trochlear nerve





(c) Posterior view

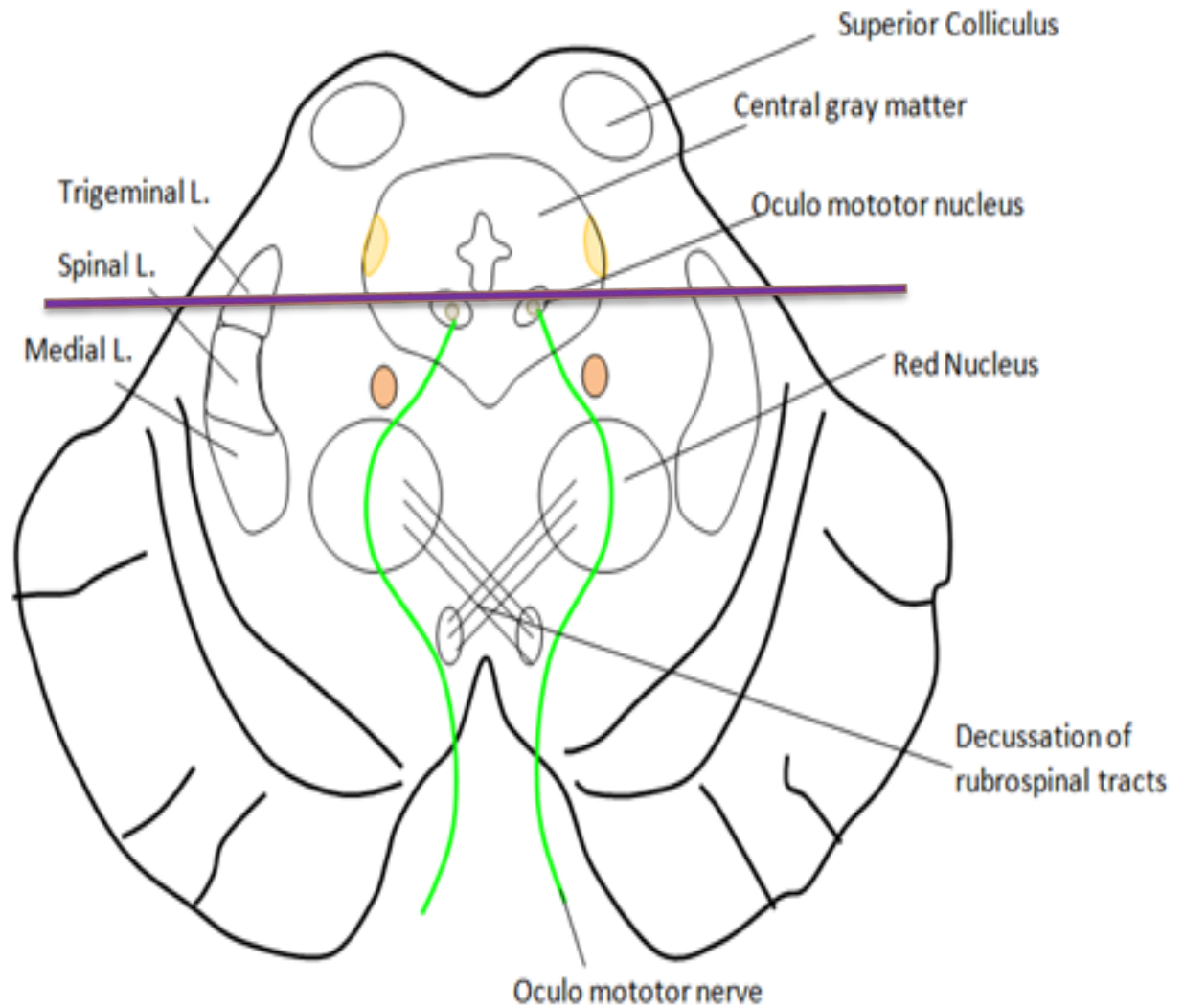


Internal structure

Ant. Part: cerebral
peduncle

- A. Crus cerebri
- B. Substantia nigra
- C. tegmentum

Post. Part: tectum



Crus cerebri

Corticospinal
fiber

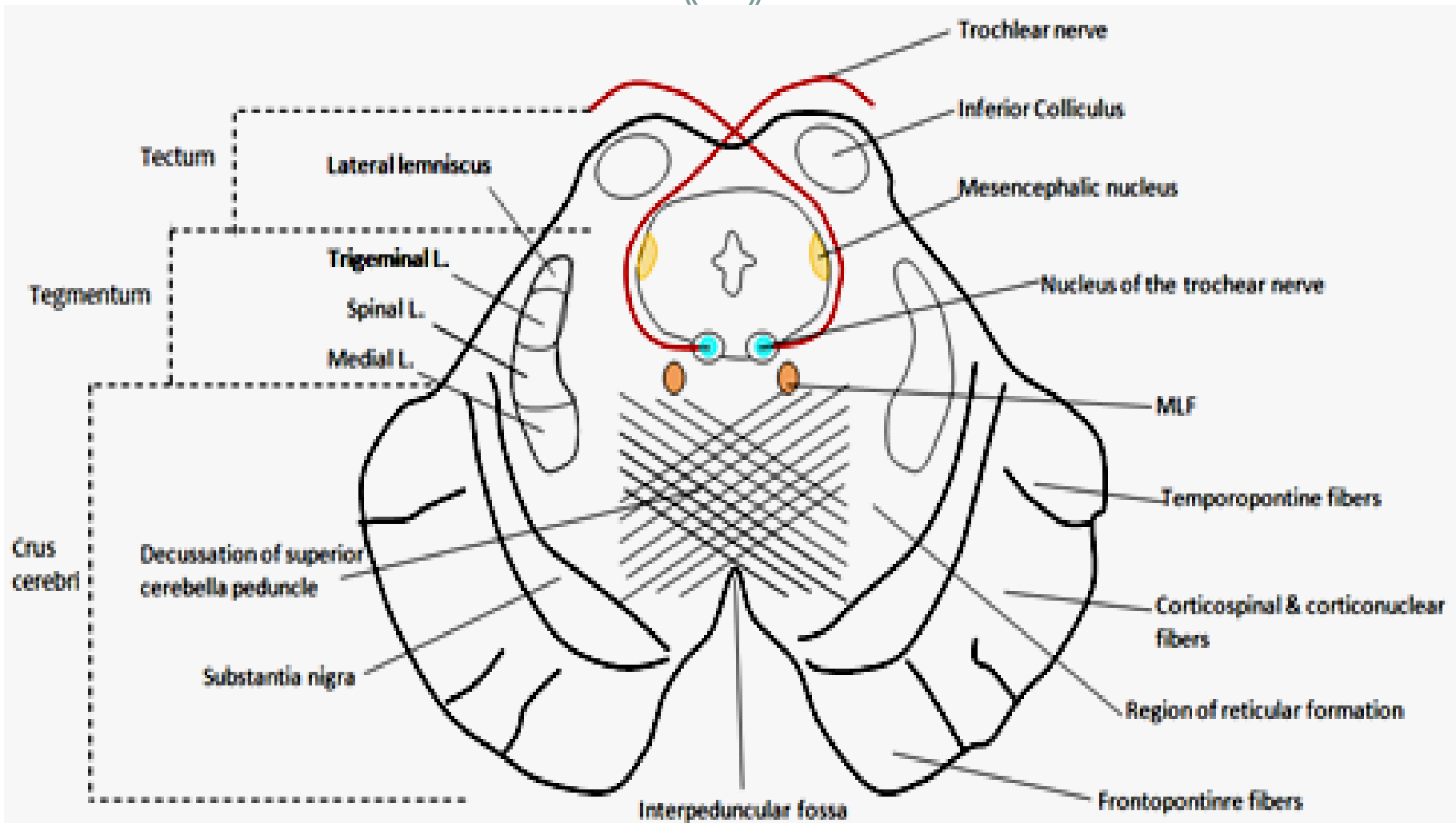
Corticonuclear
fiber

Corticopontine fiber

Temporopontine
fiber

Frontopontine
fiber

Midbrain inf. part



A Venn diagram with three overlapping circles. The top circle is light blue and contains the text 'Have the same strucure in midbrain'. The bottom-left circle is light green and contains the text 'Muscular tone'. The bottom-right circle is light brown and contains the text 'neuromelanin'. The central area where all three circles overlap is a darker yellow color and contains the text 'Substantia nigra'. The entire diagram is enclosed in a thin black rectangular border.

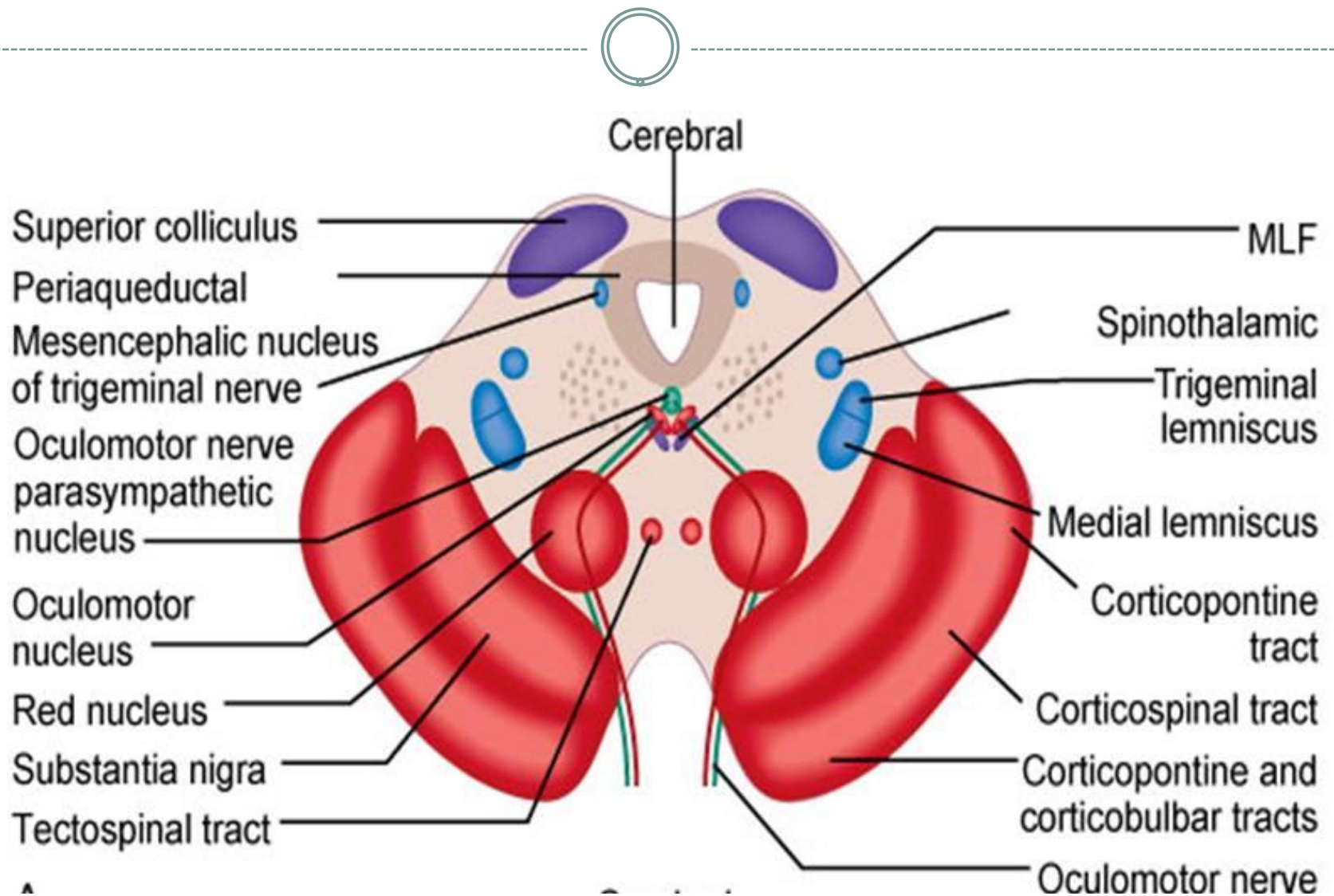
Have the
same strucure
in midbrain

Substantia
nigra

Muscular
tone

neuromelanin

Midbrain sup. part



Gray
matter



White
matter



tegumentum

Tegmentum

Gray matter



Sensory
nucleus

- Mesencephalic nucleus of trigeminal nerve

Motor
nucleus

- Nucleus of trochlear nerve
- Nucleus of oculomotor nerve

Atono
mic
nucleus

- Edinger-westphal nucleus

Others

- red nucleus

Tegmentum

White matter

Sensory tract

Motor tract

Association tract

Med. lemniscus

Lat. Lemniscus

Spinal lemniscus

Trigeminal lemniscus

NO fiber

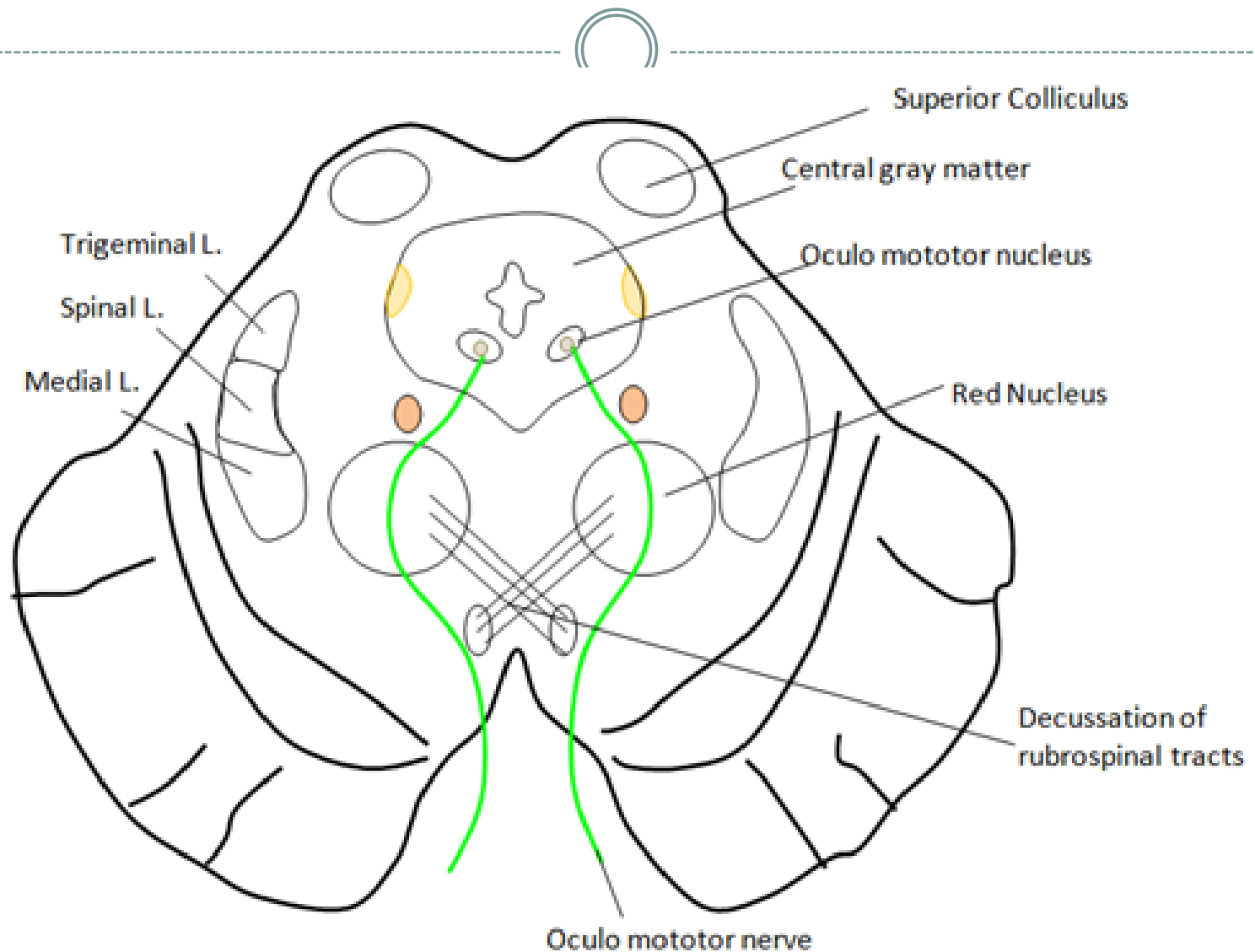
MLF

Reticular formation

Fibers related to sup.
Cerebellar peduncle



Midbrain sup. part



Inf.
colliculus

Brachium
of Inf.
colliculus

Med.
Geniculate

Auditory
pathway

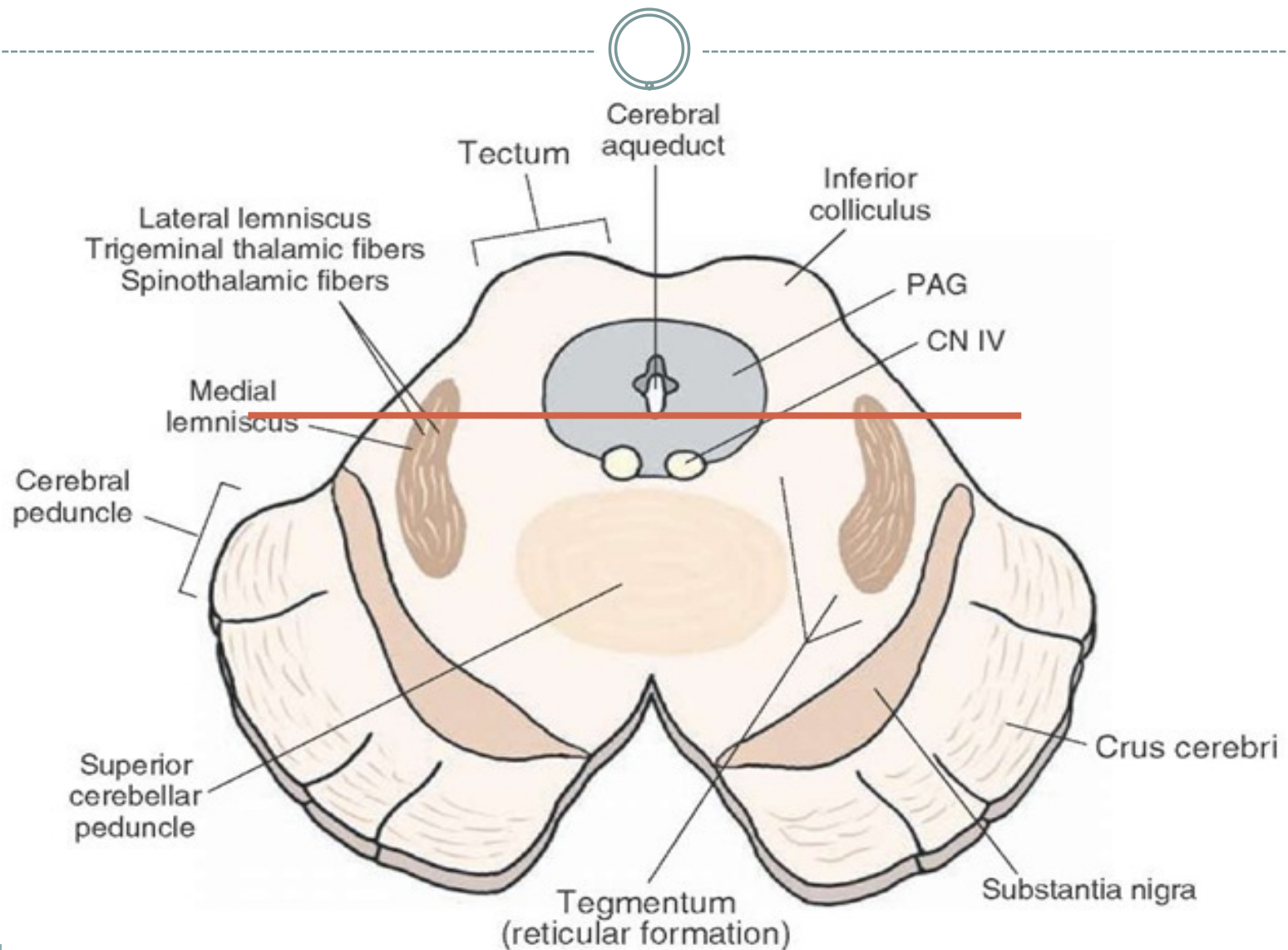
sup.
colliculus

Brachium
of sup.
colliculus

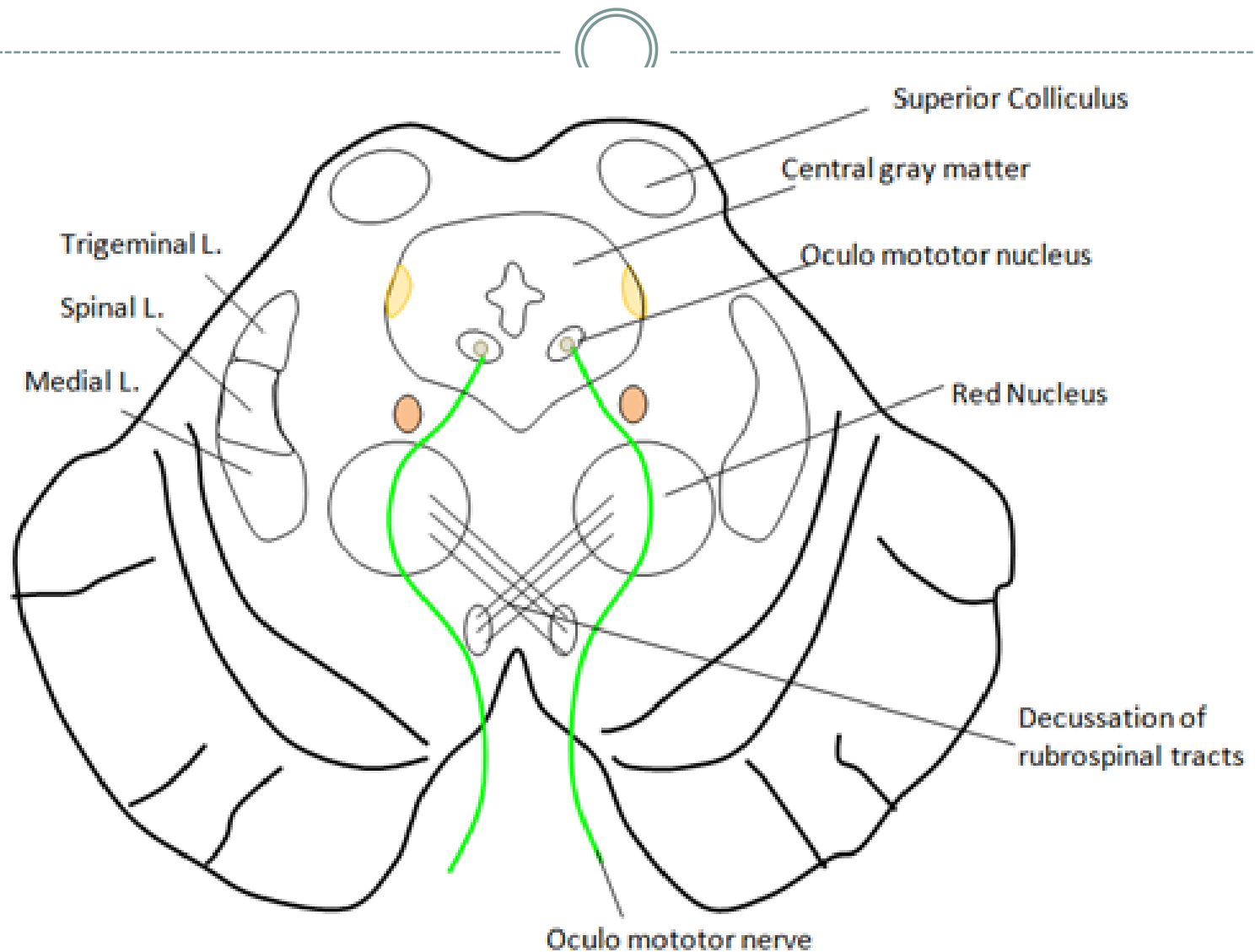
lat.
Geniculate

Visual
pathway

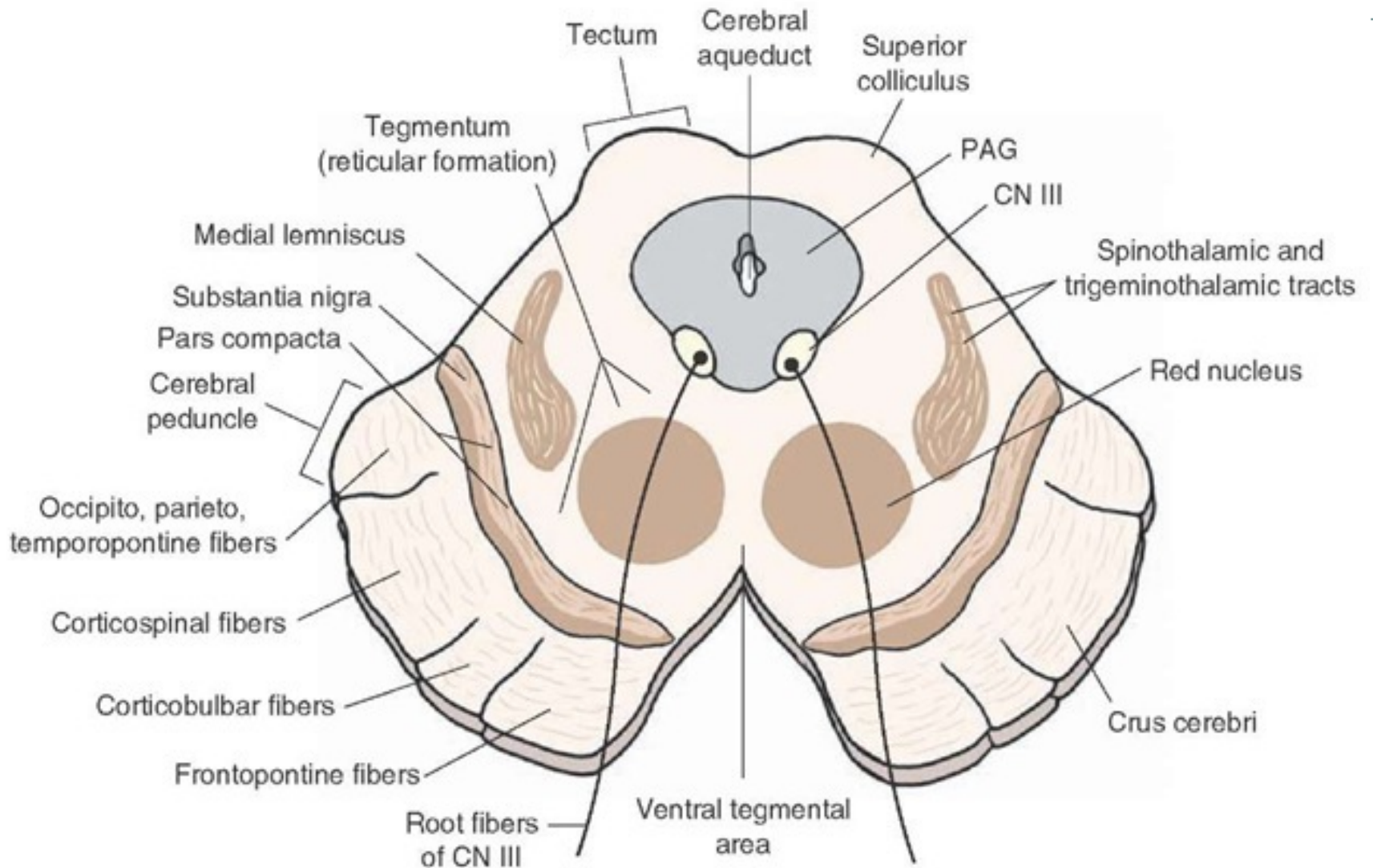
Midbrain inf. part



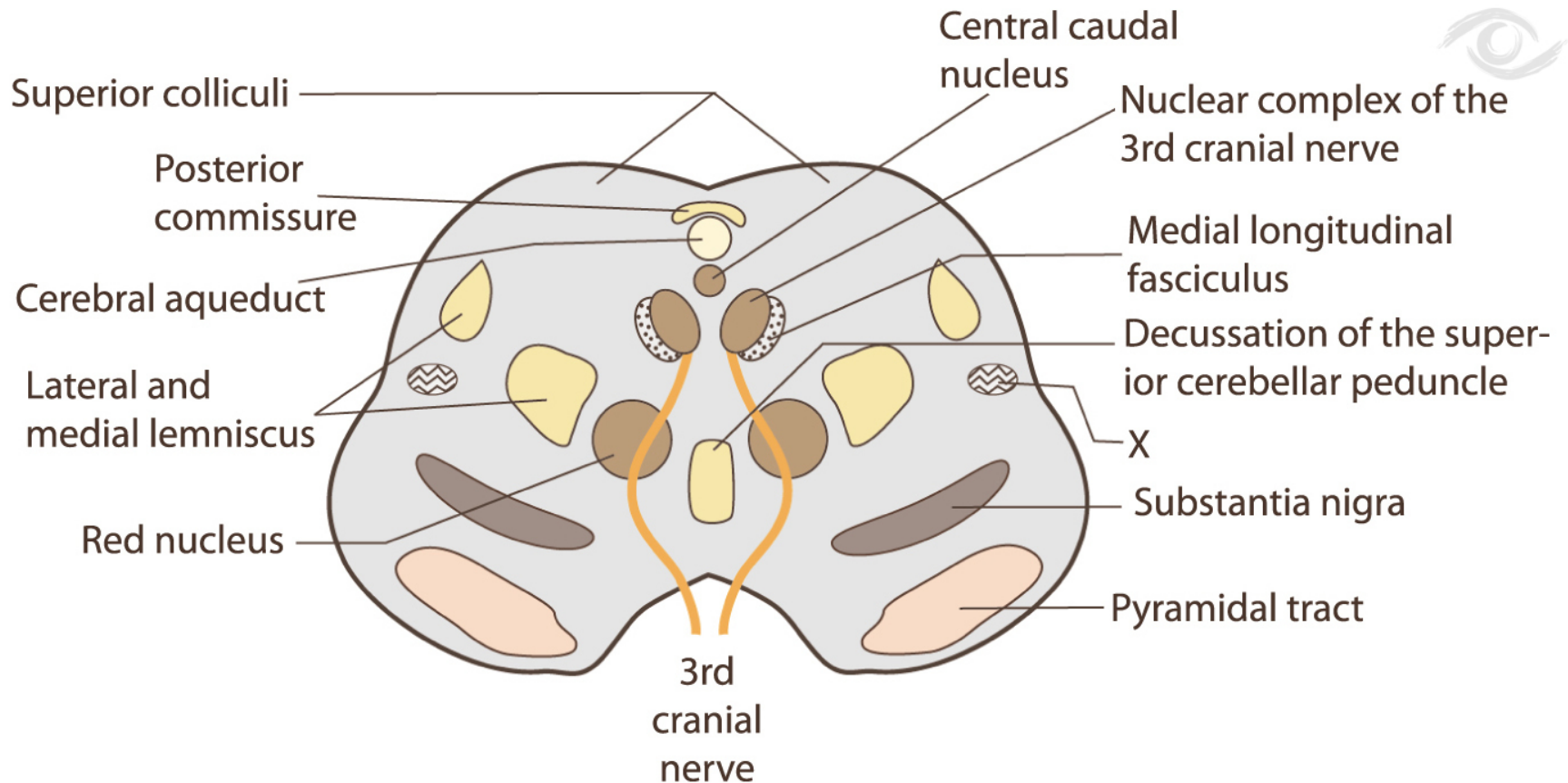
Midbrain sup. part



Midbrain sup. part



Midbrain sup. part



Midbrain sup. part

