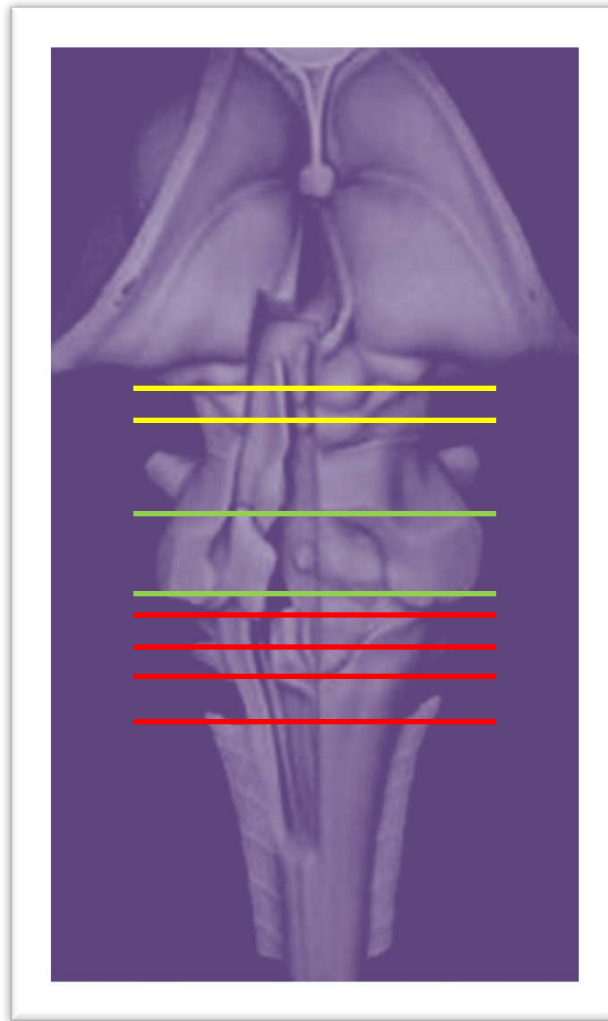


BASICS OF NEUROBIOLOGY

ORGANIZATION OF THE BRAIN STEM

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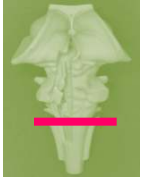
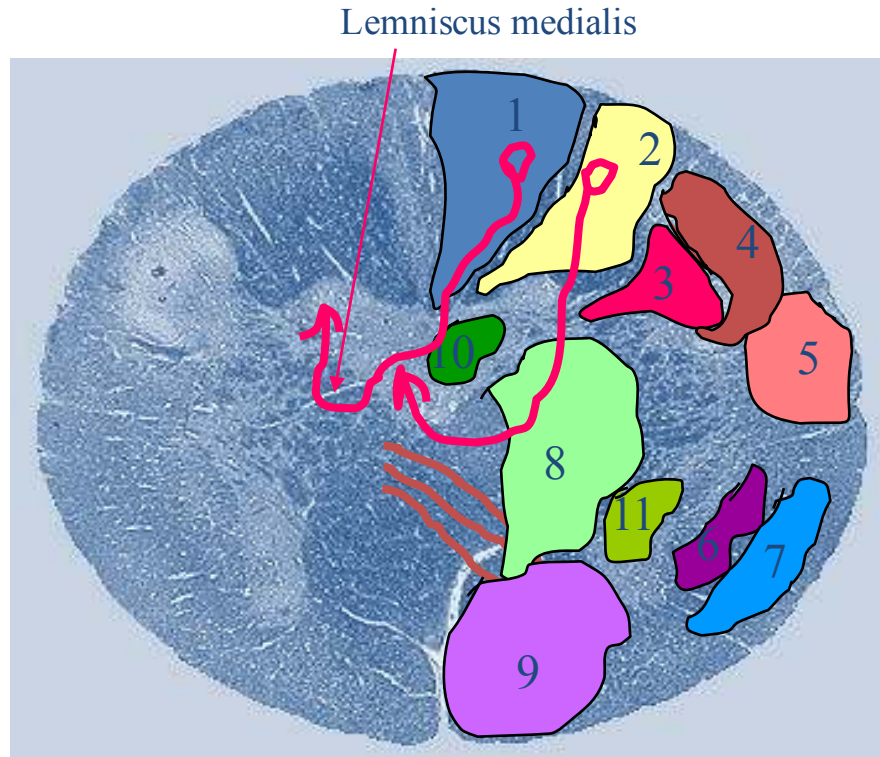
Basics of Neurobiology: Organization of the brain stem



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SPINO-MEDULLARY JUNCTION. PYRAMIDAL DECUSSATION

1. Nucleus gracilis
2. Nucleus cuneatus
3. N. spinalis n.V
4. Tr. spinalis n.V
5. Tr. spinocerebellaris d.
6. Tr. spinothalamicus
7. Tr. spinocerebellaris v.
8. Decussatio pyramidum
9. Pyramid
10. Nucleus n. XII
11. Nucleus ambiguus. N. motorius IX, X, XI



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MEDULLA OBLONGATA

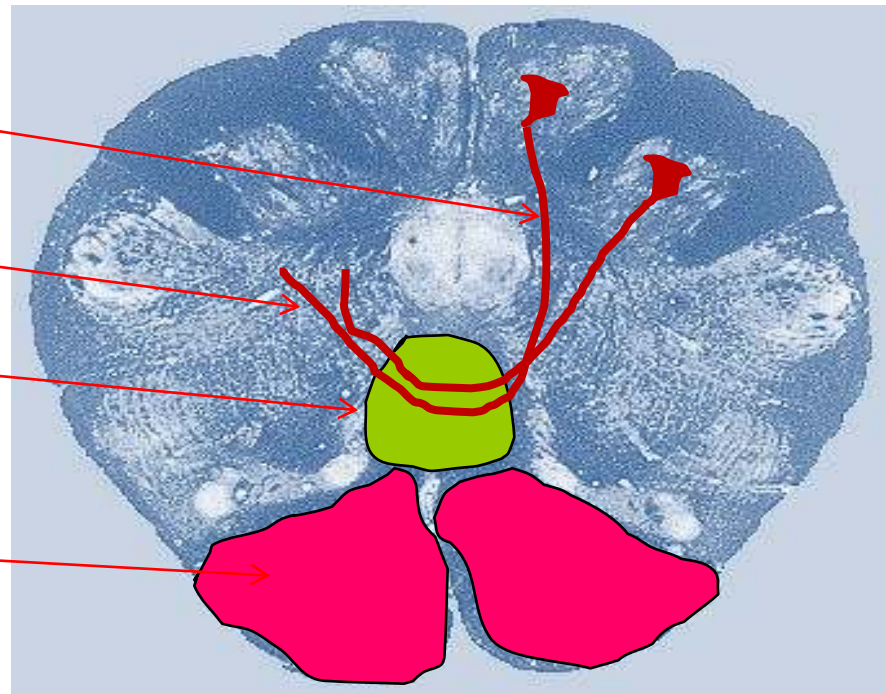
LEVEL OF DECUSSATION OF THE MEDIAL LEMNISCUS

Fibrae arcuatae

Lemniscus medialis

Decussatio lemniscorum

Tr. corticospinalis



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MEDULLA AT LEVEL OF THE INFERIOR OLIVE

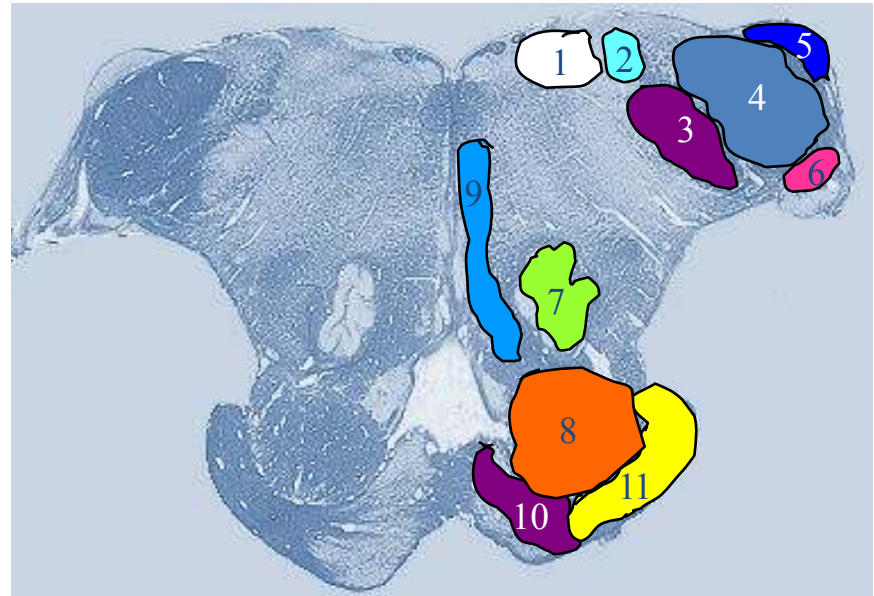
1. N. nervi XII
2. N. dorsalis. n. X
3. N. et tractus solitarius
4. N. ambiguus
5. Ped. cerebellaris inf.
6. Lemniscus medialis
7. Oliva inferior
8. Tr. corticospinalis



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THE OPEN PART OF THE MEDULLA

1. N. vestibularis medialis
2. N. vestibularis inferior
3. N. et tr. spinalis n. V
4. Ped. cerebellaris inf.
5. N. cochlearis dorsalis
6. N. cochlearis ventralis
7. Oliva inferior
8. Pyramidal tract
9. Lemniscus medialis
10. Basis pontis
11. Pedunculus cerebellaris medius



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PONS AT THE LEVEL OF THE FACIAL COLLICULUS

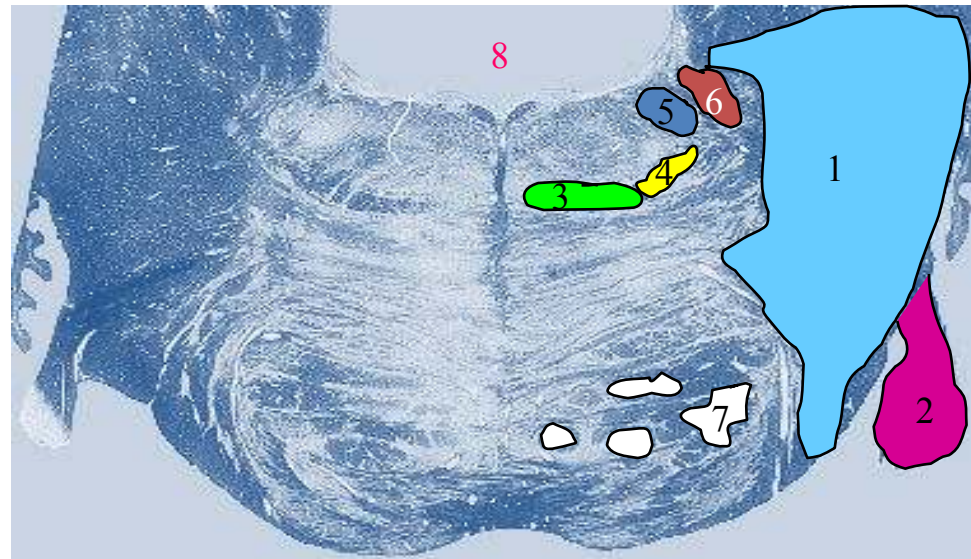
1. Colliculus facialis
2. Brachium pontis
3. Corpus trapezoideum
4. Lemniscus medialis
5. Oliva superior
6. N. motorius n. VII
7. Lemniscus lateralis
8. Pontocerebellar fibers
9. Pyramid tract
10. Nuclei pontis



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PONS AT THE LEVEL OF TRIGEMINAL NUCLEI

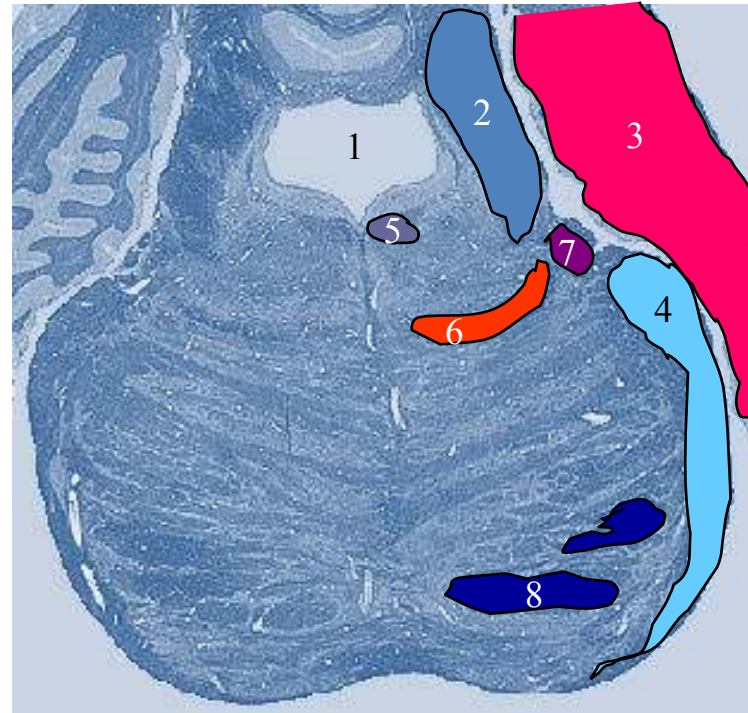
1. BRACHIUM PONTIS
2. N. TRIGEMINUS
3. LM+ EDINGER TRACT (E)
4. LEMN. LATERALIS
5. N. MOT. N. V
6. N. SEN. PRINC. N. V.
7. PYRAMID TRACT
8. 4TH VENTRICLE



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ROSTRAL PART OF THE PONS

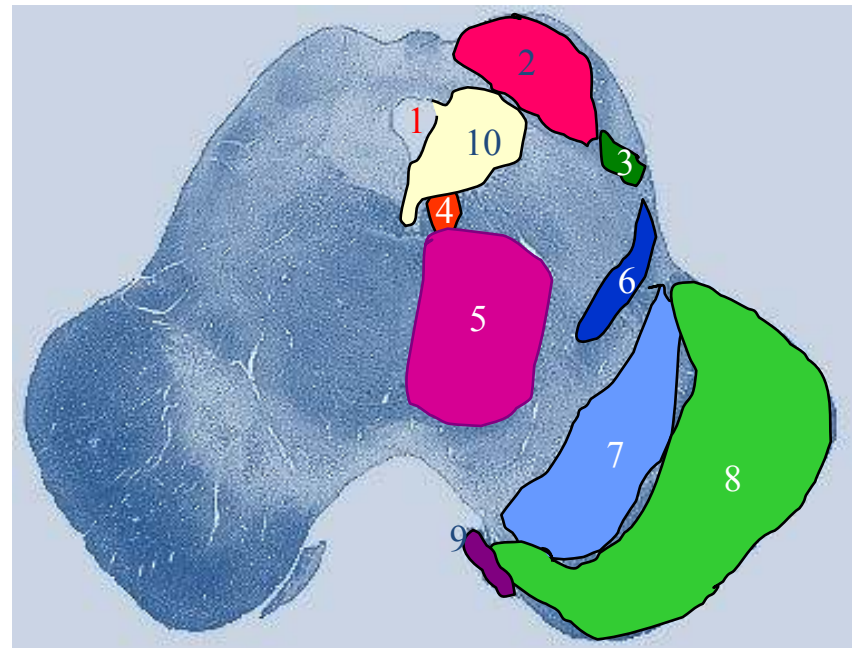
1. 4TH VENTRICLE
2. UPPER CEREBELLAR PEDUNCLE
3. CEREBELLUM
4. BRACHIUM PONTIS
5. FASC. LONG. MED.
6. LM+E
7. LEMNISCUS LATERALIS
8. PYRAMID TRACT



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MESENCEPHALON AT THE LEVEL OF INFERIOR COLLICULI

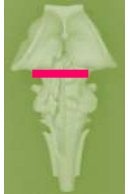
1. AQUEDUCTUS CEREBRI
2. COLLICULUS INFERIOR
3. LEMNISCUS LATERALIS
4. NUCL. NERVII IV.
5. DECUSSATION OF SUP. CEREBEL. PED.
6. LM+E
7. SUBSTANTIA NIGRA
8. PEDUNCULUS CEREBRI
9. N. OCULOMOTORIUS
10. CENTRAL GRAY MATTER



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MESENCEPHALON AT THE LEVEL OF SUPERIOR COLLICULI

1. COLLICULUS SUPERIOR
2. NUCLEUS RUBER
3. NUCLEUS N. III.
4. LM+E
5. SUBSTANTIA NIGRA
6. TR. FRONTO-PONTINUS
7. TR. CORTICOSPINALIS
8. TR. OCCIPITO-TEMPOROPONTINUS



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THE RETICULAR FORMATION OF THE BRAIN STEM

MAIN REGULATORY FUNCTIONS

RESPIRATION
CIRCULATION
FEEDING
EYE MOVEMENTS
MOTOR COORDINATION
STATE OF CONSCIOUSNESS
AROUSAL

