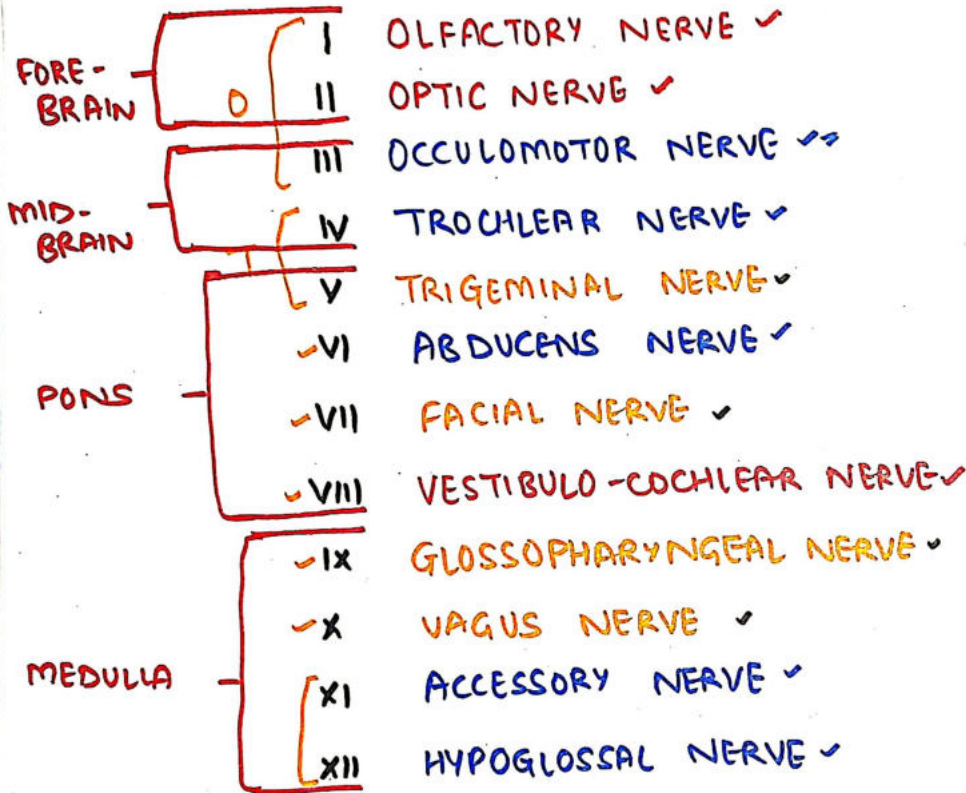


CRANIAL NERVES → 12 pairs



● SENSORY NERVES. 1, 2, 8

● MOTOR NERVES 3, 4, 6, 11, 12

● MIXED NERVES 5, 7, 9, 10

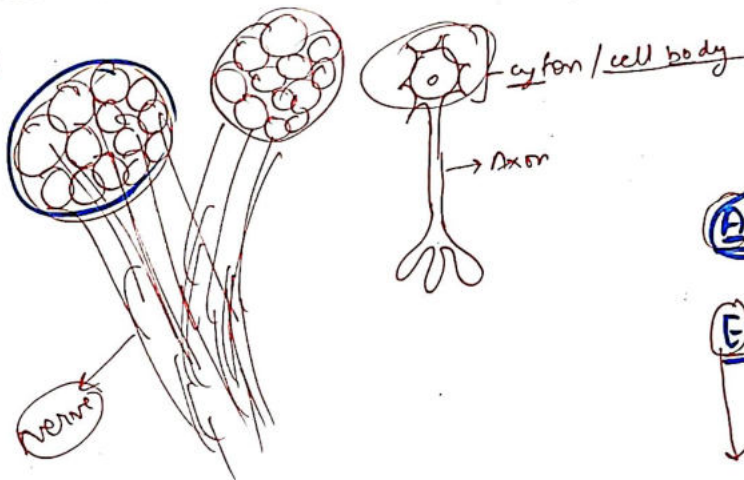
Nucleus / Ganglion - COLLECTION OF CELL BODIES

CNS

PNS

CN → 1 Nucleus
→ > 1 Nucleus ✓

EOMS



Afferent → Sensory

Efferent → motor

NUCLEUS	①	<u>GSE</u> →	GENERAL SOMATIC EFFERENT	} MOTOR
	②	<u>SVE</u> →	SPECIAL VISCERAL EFFERENT	
	③	<u>GVE</u> →	GENERAL VISCERAL EFFERENT	
	④	<u>SVA</u> →	SPECIAL VISCERAL AFFERENT	} SENSORY
	⑤	<u>GVA</u> →	GENERAL	

① GENERAL SOMATIC EFFERENT ^{motor} - THESE NUCLEI SUPPLY SKELETAL MUSCLES
(GSE) _{NUCLEUS} OF SOMATIC ORIGIN.

Eoms

C.N

NUCLEUS

3 ✓

OCCULOMOTOR NUCLEUS

→ PRESENT IN MID-BRAIN AT LEVEL OF SUPERIOR COLliculus

→ ITS FIBRES ENTERS OCCULOMOTOR NV. & SUPPLY 5 EXTRINSIC MUSCLES OF EYEBALL EXCEPT • LATERAL RECTUS
• SUP. OBLIQUE

4 ✓

TROCHLEAR NUCLEUS

→ PRESENT IN MID-BRAIN AT LEVEL OF INF. COLliculus

→ SUPPLIES SUP. OBLIQUE MUSCLE THROUGH TROCHLEAR NV.

6 ✓

ABDUCENS NUCLEUS

→ AT LOWER PART OF PONS

→ SUPPLIES LATERAL RECTUS MUSCLE THROUGH ABDUCENS NV.

12 ✓

HYPGLOSSAL NUCLEUS

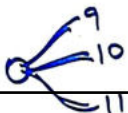
→ IN MEDULLA

→ SUPPLIES 7 out of 8 MUSCLES OF TONGUE THROUGH HYPGLOSSAL NV.
EXCEPT. PALATOGLOSSUS MUSCLE

② SPECIAL VISCERAL EFFERENT - THESE NUCLEI SUPPLIES STRIATED MUSCLE
(SVE) ^{motor} DERIVED FROM PHARYNGEAL ARCHES.

EOMS

C.N	NUCLEUS			
5	MOTOR NUCLEUS OF TRIGEMINAL NV.	→ UPPER PART OF PONS	→ SUPPLIES MUSCLES OF MASTICATION THROUGH MANDIBULAR NV.	
7	MOTOR NUCLEUS OF FACIAL NV.	→ LOWER PART OF PONS	→ SUPPLIES VARIOUS MUSCLES INNERVATED BY FACIAL NERVE	
9 10 11	} NUCLEUS AMBIGUOUS	→ IN MEDULLA	→ SUPPLIES:	
				① STYLOPHARYNGEUS MUSCLE THROUGH IX NERVE.
				② MUSCLES OF <u>SOFT PALATE</u> , <u>PHARYNX</u> , <u>LARYNX</u> THROUGH VAGUS & CRANIAL ACCESSORY NV.



③ GENERAL VISCERAL Efferent - PARASYMPATHETIC
 PRE-GANGLIONIC FIBRES ✓
 POST- " " ✓

 (GVE) (MOTOR)
 (EOMS) - SUPPLIES SMOOTH MUSCLES & GLANDS.

C.N NUCLEUS

3

EDINGER WESTPHAL
NUCLEUS

→ PRESENT IN MIDBRAIN IN
CLOSE RELATION WITH
OCULOMOTOR (N)

→ ITS FIBRES PASS THROUGH OCULOMOTOR NV.
TO CILIARY GANGLION TO SUPPLY

SPHINCTER PUPILAE CILIARUS
MUSCLE

7

SUP. SALIVATORY (N)
LACRIMATORY (N)

→ LOWER PART OF PONS
→ PONS.

→ SENDS FIBRES THROUGH FACIAL NV.
TO RELAY IN SUBMANDIBULAR GANGLION
& SUPPLY SUBMANDIBULAR, SUBLINGUAL
GLANDS & GLANDS OF ORAL
CAVITY.

9

INF. SALIVATORY (N)

→ JUST BELOW SUP. SALIVATORY
(N)

→ SENDS FIBRES THROUGH FACIAL NV. &
RELAY IN PTERYGO PALATINE GANGLION
& SUPPLIES PALATAL, NASAL,
PHARYNGEAL & LACRIMAL
GLANDS

10

DORSAL (N) OF VAGUS → MEDULLA

↓
GIVES FIBRES ~~THAT~~ THROUGH VAGUS NV.
TO BE DISTRIBUTED TO THORACIC &
ABDOMINAL VISCERA.

→ SENDS FIBRES THROUGH IX NERVE & RELAY
IN OTIC GANGLION & SUPPLY PAROTID GLAND

(N) → NUCLEUS

(Ganglions present in supplied.)

④ SPECIAL VISCERAL AFFERENT
(SV) &
GENERAL VISCERAL AFFERENT -
(GV) (sensory)

Eoms

NUCLEUS OF TRACTUS SOLITARIUS

→ ⊕ in MEDULLA.

ITS LOWER PART RECEIVES GV
SENSATIONS :

i) THROUGH IX NV. FROM TONSIL,
PHARYNX, POST. PART OF TONGUE,
CAROTID BODY & CAROTID SINUS

ii) THROUGH X NV. FROM PHARYNX,
LARYNX, TRACHEA, ESOPHAGUS,
OTHER THORACIC & ABDOMINAL
VISCERA

ITS UPPER PART RECEIVES
TASTE SENSATION FROM TONGUE
(SVA)

- FROM ANT. $\frac{2}{3}$ RD OF TONGUE &
PAPILLAE (except Circumvallate)
THROUGH VIIth NV.
- FROM POST. $\frac{1}{3}$ RD OF TONGUE }
THROUGH IXth NV. including
Circumvallate
papillae.
- FROM POSTERIORMOST PART
OF TONGUE & EPIGLOTTIS THROUGH
X NV.