

Cranial Nerves

CN I	Olfactory Nerve
CN II	Optic Nerve
CN III	Oculomotor Nerve
CN IV	Trochlear Nerve
CN V	Trigeminal Nerve
CN VI	Abducens Nerve
CN VII	Facial Nerve
CN VIII	Vestibulocochlear Nerve
CN IX	Glossopharyngeal Nerve
CN X	Vagus Nerve
CN XI	Accessory Nerve
CN XII	Hypoglossal Nerve

General Cranial Nerve Innervations

Cranial Nerve	Motor	Sensory
CN I - Olfactory Nerve	None	Smell
CN II - Optic Nerve	None	Sight
CN III - Oculomotor Nerve	Superior br. - Levator palpebrae superioris m.; Superior rectus m. :: Inferior br. - Medial rectus m.; Inferior rectus m.; Inferior oblique m.; Autonomics - Ciliary m.; Sphincter pupillae m.	None
CN IV - Trochlear Nerve	Superior oblique m.	None

General Cranial Nerve Innervations (cont)

CN V - Trigeminal Nerve	Anterior belly of digastric m.; Mylohyoid m.; Tensor veli palatini m.; Tensor tympani m.; MoM - Temporalis m.; Massester m.; Lateral pterygoid m.; Medial pterygoid m.	Skin of the face; Mucous membranes of the nasal oral cavities; General sensation afferent to anterior 2/3 of tongue (pain)
CN VI - Abducens Nerve	Lateral rectus m.	None
CN VII - Facial Nerve	Stapedius m.; Stylohyoid m.; Posterior belly of digastric m.; MoFE - Secretomotor to lacrimal, submandibular, sublingual, and mucous glands of the nasal and oral cavities	Taste (SVA) from the anterior 2/3 of the tongue; Part of the skin of the external auditory meatus
CN VIII - Vestibulocochlear Nerve	None	vestibular: balance/p- proprio- ception (SSA); cochlear: hearing (SSA)

General Cranial Nerve Innervations (cont)

CN IX - Glosso- pha- ryngeal Nerve	Stylopharyngeus m.; Secretomotor to the parotid gland (parasymp-athetic)	Carotid body, carotid sinus, pharynx, middle ear; Skin of the external ear; Taste from the posterior 1/3 of the tongue
CN X - Vagus Nerve	Intrinsic muscles of the larynx, pharynx (except stylopharyngeus), and palate (except tensor veli palatini); Smooth muscle of the respiratory tree & gut (proximal to the left colic flexure), heart; secretomotor: mucous glands of the larynx, respiratory tree, pharynx and gut; secretomotor to digestive glands	Skin of the external auditory meatus; Viscera of head, neck, thorax & abdomen proximal to the left colic flexure; Taste from the epiglottis
CN XI - Accessory Nerve	Sternocleido- mastoid and trapezius mm.	None



By MeatHead1

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General Cranial Nerve Innervations (cont)

CN XII - Intrinsic and extrinsic muscles of the tongue (except the palatoglossus m.) None

MoM - Muscles of Mastication
MoFE - Muscles of Facial Expression

Cranial Nerve Functions

CN I - Olfactory Nerve	Sensory
CN II - Optic Nerve	Sensory
CN III - Oculomotor Nerve	Motor
CN IV - Trochlear Nerve	Motor
CN V - Trigeminal Nerve	Both
CN VI - Abducens Nerve	Motor
CN VII - Facial Nerve	Both
CN VIII - Vestibulocochlear Nerve	Sensory
CN IX - Glossopharyngeal Nerve	Both
CN X - Vagus Nerve	Both
CN XI - Accessory Nerve	Motor
CN XII - Hypoglossal Nerve	Motor

Cranial Foramen

CN I - Olfactory Nerve	Cribriform plate
CN II - Optic Nerve	Optic canal
CN III - Oculomotor Nerve	Superior orbital fissure
CN IV - Trochlear Nerve	Superior orbital fissure
CN V1 - Ophthalmic division of Trigeminal Nerve	Superior orbital fissure
CN V2 - Maxillary division of Trigeminal Nerve	Foramen rotundum
CN V3 - Mandibular division of Trigeminal Nerve	Foramen ovale

Cranial Foramen (cont)

CN VI - Abducens Nerve	Superior orbital fissure
CN VII - Facial Nerve	Internal auditory meatus ~ travels through petrous temporal bone ~ leaves via stylomastoid foramen
CN VIII - Vestibulocochlear Nerve	Internal auditory meatus ~ remains within petrous temporal bone
CN IX - Glossopharyngeal Nerve	Jugular foramen
CN X - Vagus Nerve	Jugular foramen
CN XI - Accessory Nerve	Jugular foramen/Foramen magnum
CN XII - Hypoglossal Nerve	Hypoglossal canal