

Cranial Nerve	Name	Root	Function	Subdivisions	Innervates	Notes
I	Olfactory	Brain	Sensory		olfactory mucosa	sensation of smell
II	Optic	Thalamus & Mid Brain	Sensory		retina	sensation of vision
III	Oculomotor	Midbrain	Motor	Motor	to 4 eye muscles; raises eyelid (levator palpebrae sup.)	sup. med. & inf. rectus, plus inf. oblique
				Parasympathetic	to iris & ciliary muscles	constriction/dilation of pupil & focusing lens
IV	Trochlear	Midbrain	Motor		to eye muscle	sup. oblique (moves eye down and inward)
V	Trigeminal	Pons	Both	Sensory	3 branches: ophthalmic, maxillary & mandibular	from face (sensation), nasal cavity, palate
				Motor		to chewing muscles incl: temporalis, masseter, pterygoid & digastric
VI	Abducens	Pons	Motor		to eye muscle	lat. rectus (moves eye sideways)
VII	Facial	Pons	Both	Sensory	5 branches: temporal, zygomatic, buccal, mandibular & cervical	from taste buds on anterior 2/3 of tongue
				Motor		to facial muscles (expressions), also closes eyes & mouth
				Parasympathetic		to 2 salivary (sublingual and submandibular), lacrimal & nasal glands
VIII	Vestibulocochlear	Pons	Sensory		from vestibule & cochlea (inner ear)	V = equilibrium & balance; C = hearing
IX	Glossopharyngeal	Medulla Oblongata	Both	Sensory	from taste buds on posterior 1/3 of tongue	also regulates BP ^o and respiration
				Motor	to pharyngeal muscles	activities of swallowing & gag reflex
				Parasympathetic	to parotid salivary gland	
X	Vagus	Medulla Oblongata	Both	Sensory	from thoracic & abdominal organs	sensation of hunger, fullness, GI discomfort
				Motor	to pharynx & larynx	activities of swallowing & speech
				Parasympathetic	to HT & SI, LU & LI, LV & GB, ST & SP, KI	HR deceleration, bronchoconstriction, GI motility
XI	Accessory	Medulla Oblongata	Motor		to sternocleidomastoid (SCM) & trapezius muscles	
XII	Hypoglossal	Medulla Oblongata	Motor		to muscles of the tongue	