

# CN XI Accessory Nerve

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## 1 Innervation

### 1.1 Motor

Table 1: Motor innervations of CN XI OIAN

Muscle	Origin	Insertion	Nerve	Action
Sternocleidomastoid	<b>Sternal head:</b> Sternum (manubrium); <b>Clavicular head:</b> Clavicle (medial 1/3)	Temporal bone (mastoid process); Occipital bone (superior nuchal line)	<b>Motor:</b> CN XI <b>Accessory n. and Proprioception:</b> Cervical plexus (C2, C3, C4)	<b>Unilateral:</b> Tilts head to same side, rotates head to opposite side; <b>Bilateral:</b> Extends head, aids in respiration when head is fixed
Upper Trapezius	Occipital bone, SP of C1–C7	Clavicle (lateral one third)	<b>Motor:</b> CN XI <b>Accessory n. and Proprioception:</b> Cervical plexus (C2, C3, C4)	Draws scapula obliquely upward, rotates glenoid cavity superiorly

Muscle	Origin	Insertion	Nerve	Action
Middle Trapezius	Aponeurosis at T1–T4 SP	Acromion	<b>Motor:</b> CN XI <b>Accessory n.</b> and <b>Proprioception:</b> Cervical plexus (C2, C3, C4)	Draws scapula medially
Lower Trapezius	SP of T5–T12	Scapular Spine	<b>Motor:</b> CN XI <b>Accessory n.</b> and <b>Proprioception:</b> Cervical plexus (C2, C3, C4)	Draws scapula medially downward