Trigeminal Motor Nucleus

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1 Anatomy

- "The motor nucleus is medial to the principal sensory nucleus"²
- "Fibers from this nucleus exit from the brain stem medial to the entering sensory root, pass underneath the trigeminal ganglion without synapse, and become incorporated in the mandibular division"²

2 Function

2.1 Bite modulation

"Axons from the mesence phalic nucleus project to the motor nucleus, completing a reflex arc in modulating the degree of bite" 2

- 1. Blumenfeld H. *Neuroanatomy Through Clinical Cases*. 3rd ed. Oxford university press; 2022.
- 2. Joo W, Yoshioka F, Funaki T, Mizokami K, Rhoton AL. Microsurgical anatomy of the trigeminal nerve. *Clinical Anatomy*. 2014;27(1):61-88. doi:10.1002/ca.22330

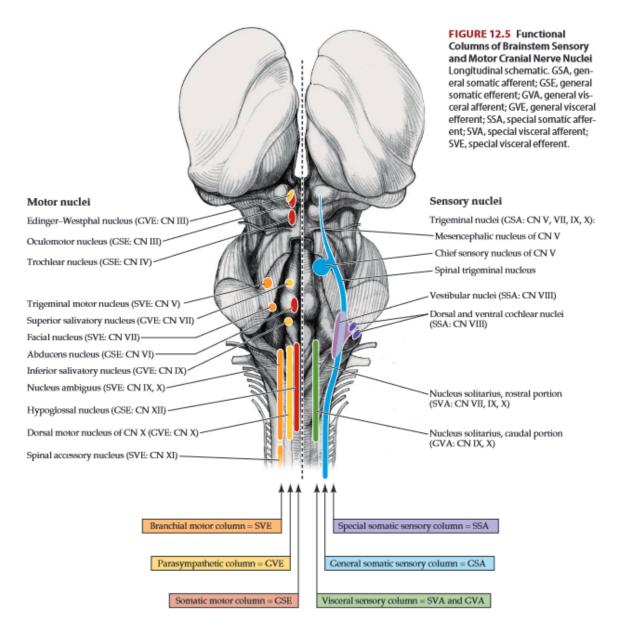


Figure 1: Functional columns of brainstem sensory and motor cranial nerve nuclei (from Blumenfield Figure 12.5^1)