

# Cranial nerves

These are **paired** structures emerging from the **brainstem**, with the exception of **I.** and **II. cranial nerve**.

I. Nervus olfactorius - at the base of the skull, it passes through the lamina cribrosa of the ossis ethmoidalis.

II. Nervus opticus - t the base of the skull passes through the canalis opticus together with the ophthalmic artery.

III. Nervus oculomotorius - at the base of the skull passes through the fissura orbitalis superior.

IV. Nervus trochlearis - at the base of the skull passes through the fissura orbitalis superior.

## V. Nervus trigeminus

- V/1 Nervus ophtalmicus - passes through the fissura orbitalis superior at the base of the skull.
- V/2 Nervus maxillaris - at the base of the skull passes through the foramen rotundum into the pterygopallatina fossa.
- V/3 Nervus mandibularis - passes through the foramen ovale at the base of the skull.

VI. Nervus abducens - passes through the fissura orbitalis superior at the base of the skull.

VII. Nervus facialis - at the base of the skull passes through the meatus acusticus internus, then the foramen stylomastoideum.

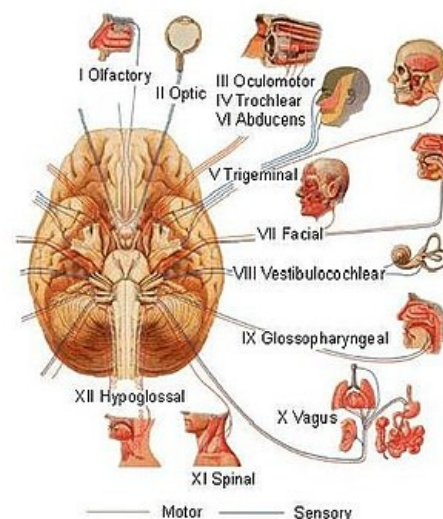
VIII. Nervus vestibulocochlearis - does not extend from the base of the skull, it remains in the meatus acusticus internus.

IX. Nervus glossopharyngeus - -passes through the jugular foramen at the base of the skull.

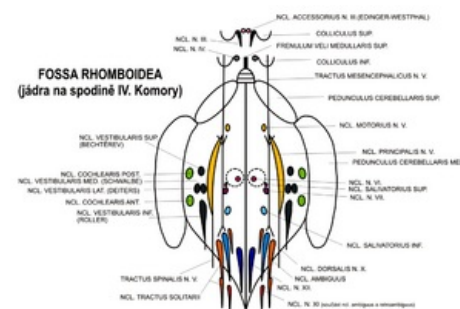
X. Nervus vagus - at the base of the skull passes through the jugular foramen.

XI. Nervus accessorius - passes through the jugular foramen at the base of the skull.

XII. Nervus hypoglossus - passes through the canalis hypoglossi at the base of the skull.



## Cranial nerves



### Cranial nerve nuclei

## Links

## External links

- Morphology of the orofacial system for dental students (<http://mefanet.upol.cz/clanky.php?aid=58>)<sup>[1]</sup>
- Basics of neuroanatomy and neural pathways (<http://portal.med.muni.cz/clanek-442-zaklady-neuroanatomie-a-nervovych-drah.html>)<sup>[2]</sup>

## References

1. HORKÝ, Drahomír – NOVÁKOVÁ, Květoslava. *Morfologie orofaciálního systému pro studenty zubního lékařství* [online] . 2. edition. Publikováno online. 2011. Available from <<http://mefanet.upol.cz/clanky.php?aid=58>>. ISBN 978-80-244-2702-7.
2. DUBOVÝ, Petr. *Základy neuroanatomie a nervových drah : Multimediální podpora výuky klinických a zdravotnických oborů* [online]. Portál Lékařské fakulty Masarykovy univerzity [online], ©2007. The last revision 3.6.2011, [cit. 2011-11-27]. <<http://portal.med.muni.cz/clanek-442-zaklady-neuroanatomie-a-nervovych-drah.html>>.