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**Comparative anatomical studies on the
cranial nerves of (*Agama siniata*).**

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المستخلص العربي

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يخرجوا من تجويف المخ خلال ثقبين منفصلين حيث يتحدوا الثلاثة جذور لتكوين العصب تحت
اللسانى الذى يتجه للامام ليغذى عضلات منطقة اللسان.

Abstract

In *Agama sinaita*, the nervi olfactorius, opticus and octavus are sensory fibres where they arise from the sense organ and they enter the brain. The eye muscle nerves which are the nervi oculomotorius, trochlearis and abducens are somatic motor fibres and they innervate the eye muscles. The ciliary ganglion is connected to the nervi oculomotorius and trigeminus. The nervus trigeminus arises as one root and it has two ganglia, the Gasserian and ophthalmic ganglia. The nervus facialis has one ganglion and it gives off two rami, palatinus and hyomandibularis. The nervus glossopharyngeus enters the petrosal ganglion and it turns anteriorly. The nervus vagus enters the jugular ganglion and passes anteriorly where it anastomosis with the nervus glossopgaryngeus. The fate of the nervus accessorius distributed within the nervus vagus. The nervus hypoglossus is somatic motor fibres to the tongue muscles.

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LIST OF ABBREVIATIONS

1 st RO.N.XII.	: First root of the nervus hypoglossus.
1st F.N.XII.	: First foramen of the nervus hypoglossus.
1st N.C1.	: First cervical nerve.
2nd RO.N.XII.	: Second root of the nervus hypoglossus.
2nd F.N.XII.	: Second foramen of the nervus hypoglossus.
3rd RO.N.XII.	: Third root of the nervus hypoglossus.
AN. RO. XI.	: Anterior root of the nervus accessories.
AN.TR.N.XII.	: Anterior trunk of the nervus hypoglossus.
AU.CA.	: Auditory capsule.
B.PA.	: Palatine bone.
BA.PL.	: Basal plate.
CE.	: Cerebellum.
CE. HE.	: Cerebral hemisphere.
CT.	: Chorda tympani.
CT.	: Chorda tympani.
D.	: Dentary bone.
E.	: Eye.
F.FA.	: Facial foramen.
G. CL.	: Ciliary ganglion.
G. ET.	: Ethmoidal ganglion.
G. GE.	: Geniculate ganglion.
G. JU.	: Jugular ganglion.
G. MD.	: Maxillo-mandibular ganglion.
G. NO.	: Nodosal ganglion.
G. OPH.	: Ophthalmicus ganglion.
G. PT.	: Petrosal ganglion.

G. VE.	: Vestibular ganglion.
G.CL.	: Ciliary ganglion.
LA. PL.	: Lacrimal plexus.
M .AE.	: Adductor externus muscle.
M. PS.	: Pseudotemporalis muscle.
M.DPI.	: Depressor palpebrae inferioris muscle.
M.OSP.	: Obliquus superior muscle.
M.PP.	: Protractor pterygoideus muscle.
M.RIF.	: Rectus inferior muscle.
M.RM.	: Rectus medialis muscle.
M.RSP.	: Rectus superior muscle.
M.RTO.	: Retractor oculi muscle.
M.SO.	: Suboccipital muscles.
ME.C.	: Meckel's cartilage.
MO.	: Medulla oblongata.
N. AE.	: Nerve to the adductor externus muscle.
N. AM.	: Nerve to the adductor mandibulae externus muscle.
N. AO.	: Nervus anguli oris.
N. BH.	: Nerve to the branchiohyoideus muscle.
N. BM.	: Nerve to the branchiomandibularis muscle.
N. CM.	: Nerve to the ceratomandibularis muscle.
N. DLCL.	: Nerve to the dilator and constrictor laryngi muscles.
N. DM.	: Nerve to the depressor mandibularis muscle.
N. DPI.	: Nerve to the depressor palpebrae inferioris muscle.
N. GGE.	: Nerve to the genioglossus externus muscle.
N. GGI.	: Nerve to the genioglossus internus muscle.
N. HG.	: Nerve to the hyoglossus muscle.
N. IFO.	: Infraorbital nerve.
N. IM.	: Nerve to the intermandibularis muscle.

N. L.	: Lateral nerve of ramus maxillaris.
N. LP.	: Nerve to the levator pterygoideus muscle.
N. OIF.	: Nerve to the obliquus inferior muscle.
N. PP.	: Nerve to the protractor pterygoideus muscle.
N. RIF.	: Nerve to the rectus inferior muscle.
N. RL.	: Nerve to the rectus lateralis muscle.
N. RM.	: Nerve to the rectus medialis muscle.
N. RTO.	: Nerve to the retractor oculi muscle.
N. SO.	: Nerve to the suboccipital muscles.
N. T.	: Nervus temporalis.
N. V4.	: Nervus constrictor-1-dorsalis.
N.AE.	: Nerve to the adductor externus muscle.
N.CL.	: Ciliary nerve.
N.I.	: Nervus olfactorius.
N.IFO.	: Infraorbital nerve.
N.II.	: Nervus opticus.
N.III.	: Nervus oculomotorius.
N.IV.	: Nervus trochlearis.
N.V.	: Nervus trigeminus.
N.VI.	: Nervus abducens.
N.VII.	: Nervus facialis.
N.VIII.	: Nervus octavus.
N.IX.	: Nervus glossopharyngeus.
N.XI.	: Nervus accessories.
N.XII.	: Nervus hypoglossus.
N.XII. C1.	: Nervus hypoglossus connected with the first cervical nerve.
N.L.	: The lateral nerve of the ramus maxillaries of the nervus trigeminus.

N.OIF.	: Nerve to the obliquus inferior muscle.
N.RM.	: Nerve to the rectus medialis muscle.
N.SO.	: Nerve to the suboccipital muscles
OL. BU.	: Olfactory bulb.
OL. TR.	: Olfactory trunk.
OP. LO.	: Optic lobe.
OP.CH.	: Optic chiasma.
PO. RO. XI.	: Posterior root of the nervus accessories.
PT.C.	: Parietotectal cartilage.
R. AIF.	: Ramus alveolaris inferior.
R. ALS.	: Ramus alveolaris superior.
R. AM. AN.	: Ramus ampullaris anterior.
R. AM. PO.	: Ramus ampullaris posterior.
R. CM. IFO- PAL.	: Ramus communicans between the infraorbital nerve and the ramus palatinus lateralis of the nervus facialis.
R. CM. NA. PAM.	: Ramus communicans between the ramus nasalis of the nervus trigeminus and the ramus palatinus medialis of the nervus facialis.
R. CR.	: Ramus cutaneous recurrens.
R. CU.	: Ramus cutaneous.
R. FR.	: Ramus frontalis.
R. H.	: Ramus hyoideus.
R. HM.	: Ramus hyomandibularis.
R. IMC.	: Ramus intermandibularis caudalis.
R. INF.	: Ramus inferior of the nervus oculomotorius.
R. LG. IX.	: Ramus lingualis of the nervus glossopharyngeus.
R. LGI.	: Ramus lingualis intermedialis of the nervus hypoglossus.
R. LGL.	: Ramus lingualis lateralis of the nervus hypoglossus.
R. LGM.	: Ramus lingualis medialis of the nervus hypoglossus.

R. LS.	: Lateral sympathetic ramus.
R. MD.	: Ramus mandibularis of the nervus trigeminus.
R. MS.	: Medial sympathetic ramus.
R. MX.	: Ramus maxillaries of the nervus trigeminus .
R. NA.	: Ramus nasalis of the nervus trigeminus.
R. OPH. PR.	: Ramus ophthalmicus profundus.
R. PA.	: Ramus palatinus of the nervus facialis.
R. PAI.	: Ramus palatinus intermedialis of the nervus facialis .
R. PAL.	: Ramus palatinus lateralis of the nervus facialis.
R. PAM.	: Ramus palatinus medialis of the nervus facialis.
R. PHL.	: Ramus pharyngo-laryngeus of the nervus glossopharyngeus.
R. PLG.	: Ramus paralingualis.
R. RE. X.	: Ramus recurrens laryngeus of the nervus vagus.
R. SP.	: Ramus superior of the nervus oculomotorius.
R.IMM.	: Ramus intermandibularis medius.
RD. CL. BR.	: Radix ciliaris brevis.
RD. CL. L.	: Radix ciliaris longa.
RO.N.II.	: Root of the nervus opticus.
RO. N. III.	: Root of the nervus oculomotorius.
RO. N. IV.	: Root of the nervus trochlearis.
RO. N. IX.	: Root of the nervus glossopharyngeus.
RO. N. V.	: Root of the nervus trigeminus.
RO. N. VI.	: Root of the nervus abducens.
RO. N. VII.	: Root of the nervus facialis.
RO. N. VIII.	: Root of the nervus octavus.
RO. N. X.	: Root of the nervus vagus.
RO. N. XII.	: Root of the nervus hypoglossus.
S.I.	: Interorbital septum.