













































































































































































































































































































































































mesencephalon  PARTONOMY LIST

FMA	TA	UID	Short official Latin term	Short English equivalent
<a href="#">61993</a>		5261	mesencephalon 	mesencephalon  ; midbrain
		8559	morphologia externa mesencephali	external morphology of mesencephalon
<a href="#">77488</a>		5582	lamina quadrigeminalis (par)  ; lamina tecti mesencephali (par) 	quadrigeminal plate (pair); tectal plate (pair)
<a href="#">62403</a>		5586	colliculus superior (par) 	superior colliculus (pair) 
<a href="#">62404</a>		5585	colliculus inferior (par) 	inferior colliculus (pair) 
<a href="#">84359</a>		5579	trigonum lemnisci lateralis (par) 	trigone of lateral lemniscus (pair) 
<a href="#">77801</a>		5577	sulcus lateralis mesencephali (par) 	lateral sulcus of mesencephalon (pair) 
<a href="#">62394</a>		5575↓	pedunculus cerebri (par)  ; crus cerebrale (par) 	cerebral peduncle (pair)  ; cerebral limb (pair) 
<a href="#">83792</a>		5574	sulcus nervi oculomotorii (par) 	oculomotor sulcus (pair)
<a href="#">83740</a>		5572	fossa interpeduncularis 	interpeduncular fossa 
<a href="#">77523</a>		5573	substantia perforata posterior 	posterior perforated substance 
		8558	morphologia interna mesencephali	internal morphology of mesencephalon
<a href="#">83902</a>		5669	tectum mesencephali 	tectum of mesencephalon 
		9048	substantia grisea tecti mesencephali 	grey substance of tectum of mesencephalon 
		8067	laminae colliculi superioris (par) 	layers of superior colliculus (pair) 
<a href="#">72406</a>		5674	stratum zonale (par)  ; lamina I colliculi superioris (par) 	zonal layer (pair)  ; layer I of superior colliculus (pair) 
<a href="#">72407</a>		5675	stratum griseum superficiale (par)  ; lamina II colliculi superioris (par) 	superficial grey layer (pair)  ; layer II of superior colliculus (pair)  
<a href="#">71112</a>		5676	stratum opticum (par)  ; lamina III colliculi superioris (par) 	optic layer (pair)  ; layer III of superior colliculus (pair) 
<a href="#">72409</a>		5677	stratum griseum intermedium (par)  ; lamina IV colliculi superioris (par) 	intermediate grey layer (pair)  ; layer IV of superior colliculus (pair)  
<a href="#">71113</a>		5678	stratum medullare intermedium (par)  ; lamina V colliculi superioris (par) 	intermediate medullary layer (pair)  ; layer V of superior colliculus (pair) 
<a href="#">72410</a>		5679	stratum griseum profundum (par)  ; lamina VI colliculi superioris (par) 	deep grey layer (pair)  ; layer VI of superior colliculus (pair)  
<a href="#">72416</a>		5680	stratum medullare profundum (par)  ; lamina VII colliculi superioris (par) 	deep medullary layer (pair)  ; layer VII of superior colliculus (pair) 
		5670	nuclei colliculi inferioris (par) 	nuclei of inferior colliculus (pair) 
<a href="#">72413</a>		5671	nucleus centralis (par) 	central nucleus (pair) 
<a href="#">72412</a>		5672↓	nucleus externus (par)  ; cortex externus colliculi inferioris (par) 	external nucleus (pair)  ; external cortex of inferior colliculus (pair) 
<a href="#">72411</a>		5673↓	nucleus pericentralis (par)  ; cortex dorsalis colliculi inferioris (par) 	pericentral nucleus (pair)  ; dorsal cortex of inferior colliculus (pair) 
		8054	stratum I corticis dorsalis (par) 	layer I of dorsal cortex (pair) 
		8057	stratum II corticis dorsalis (par) 	layer II of dorsal cortex (pair) 
		8060	stratum III corticis dorsalis (par) 	layer III of dorsal cortex (pair) 
		8063	stratum IV corticis dorsalis (par) 	layer IV of dorsal cortex (pair) 
		9046	substantia alba tecti mesencephali 	white matter of tectum of mesencephalon  ; white substance of tectum of mesencephalon
		8092	tractus commissurales tecti mesencephali (par) 	commissural tracts of tectum of mesencephalon (pair) 
<a href="#">71115</a>		5681	commissura colliculi inferioris  	commissure of inferior colliculus  
<a href="#">72418</a>		5682	commissura colliculi superioris  	commissure of superior colliculus  
		8096	tractus longi tecti mesencephali (par) 	long tracts of tectum of mesencephalon (pair) 

	8100	tractus ascendentes medullae spinalis (par) 	ascending tracts of spinal cord (pair) 	
<a href="#">77766</a>	12531	tractus anterolateralis  ; systema anterolaterale  ; lemniscus spinalis  	anterolateral tract  ; anterolateral system  ; spinal lemniscus  	
	5328	fibrae spinotectales  	spinotectal fibres   	
	8104	tractus ascendentes trunci encephali (par) 	ascending tracts of brain stem (pair) 	
<a href="#">72417</a>		5584	brachium colliculi superioris  	brachium of superior colliculus  
<a href="#">71114</a>		5583	brachium colliculi inferioris  	brachium of inferior colliculus  
<a href="#">72502</a>		5468	lemniscus lateralis  	lateral lemniscus  
	8108	tractus descendentes tecti mesencephali (par) 	descending tracts of tectum of mesencephalon (pair) 	
	8479	tractus tectobulbaris  	tectobulbar tract  	
	7503	decussatio tegmentalis dorsalis  ; decussatio tegmentalis posterior  	dorsal tegmental decussation  ; posterior tegmental decussation  	
	8480	tractus tectospinalis  	tectospinal tract  	
	7479	structurae centrales mesencephali 	central structures of mesencephalon 	
	7478	substantia grisea structurarum centralium mesencephali	grey matter of central structures of mesencephalon; grey substance of central structures of mesencephalon 	
<a href="#">83134</a>		5645	substantia grisea periaqueductalis  ; substantia grisea centralis 	periaqueductal grey matter  ; central grey matter  
		6302	cellulae dopaminergicae periaqueductales (par)   ; cellulae dopaminergicae A11 (par) 	dopaminergic cells of periaqueductal grey matter (pair); dopaminergic cells A11 (pair)  
	7480	substantia alba structurarum centralium mesencephali	white matter of central structures of mesencephalon; white substance of central structures of mesencephalon	
	8043	tractus longi structurarum centralium mesencephali (par)	long tracts of central structures of mesencephalon (pair)	
	8047	tractus ascendentes medullae spinalis (par) 	ascending tracts of spinal cord (pair) 	
<a href="#">77766</a>	12531	tractus anterolateralis  ; systema anterolaterale  ; lemniscus spinalis  	anterolateral tract  ; anterolateral system  ; spinal lemniscus  	
	5329	fibrae spinoperiaqueductales  	spinoperiaqueductal fibres   	
	8051	tractus descendentes structurarum centralium mesencephali (par)	descending tracts of central structures of mesencephalon (pair)	
	8751	fasciculus longitudinalis posterior descendens  ; fasciculus longitudinalis dorsalis descendens  	descending posterior longitudinal fasciculus  ; descending dorsal longitudinal fasciculus  	
<a href="#">62393</a>		5578	tegmentum mesencephali 	tegmentum of mesencephalon 
<a href="#">83913</a>		5625	substantia grisea tegmenti mesencephali 	grey matter of tegmentum of mesencephalon  
	8564	nuclei somatosensorii tegmenti mesencephali (par) 	somatosensory nuclei of tegmentum of mesencephalon (pair) 	
<a href="#">54568</a>		5494	nucleus mesencephalicus nervi trigeminalis (par) 	mesencephalic nucleus of trigeminal nerve (pair) 
	8565	nucleus intercollicularis (par) 	intercollicular nucleus (pair) 	
	8566	nuclei visuales tegmenti mesencephali (par) 	visual nuclei of tegmentum of mesencephalon (pair) 	
	8567	nucleus terminalis lateralis (par) 	lateral terminal nucleus (pair) 	
	9055	nuclei acustici tegmenti mesencephali (par)  ; nuclei auditorii tegmenti mesencephali (par) 	acoustic nuclei of tegmentum of mesencephalon (pair)  ; auditory nuclei of tegmentum of mesencephalon (pair) 	
	9056	nucleus brachii colliculi inferioris (par) 	nucleus of brachium of inferior colliculus (pair) 	
<a href="#">77492</a>		5652	nucleus saguli (par) 	sagulum nucleus (pair)
<a href="#">77494</a>		5653	nucleus subbrachialis (par) 	subbrachial nucleus (pair) 
	8561	nuclei somatomotorii tegmenti mesencephali 	somatomotor nuclei of tegmentum of 	

		(par)	
<a href="#">54510</a>		5626	nucleus oculomotorius (par) 
		8562	nucleus caudalis centralis (par) 
		8563	nucleus interoculomotorius (par) 
		8568	nuclei visceromotorii tegmenti mesencephali (par) 
		5627	nuclei accessorii nervi oculomotorii (par)
		8569	pars preganglionaris (par) 
		8570	pars nonganglionaris (par) 
<a href="#">54524</a>		5629	nucleus anteromedialis (par)
		5684	nuclei reticulares tegmenti mesencephali 
<a href="#">62402</a>		5651	formatio reticularis mesencephali (par) 
		8572	nucleus intracuneiformis (par) 
<a href="#">72427</a>		5658	nucleus cuneiformis (par) 
		8571	regio locomotora mesencephalica (par) 
		15263	nuclei neuromodulatorii tegmenti mesencephali (par) 
		5663	nuclei raphes mesencephali (par)  ; cellulae serotonergicae (par) 
<a href="#">77502</a>		5664	nucleus raphes linearis (par) ; cellula serotonergica B8 (par) 
<a href="#">68462</a>		5545	nucleus raphes dorsalis ; cellulae serotonergicae B7 
		7445	nuclei dopaminergici (par) 
		14773	cellulae dopaminergicae areae tegmentalis ventralis (par)  ; cellulae dopaminergicae A10 (par) 
		14753	cellulae dopaminergicae partis compactae substantiae nigrae (par)  ; cellulae dopaminergicae A9 (par) 
		14752	cellulae dopaminergicae retrorubrales (par)  ; cellulae dopaminergicae A8 (par) 
<a href="#">67947</a>		5597	substantia nigra (par)
<a href="#">62907</a>		5598↓	pars compacta substantiae nigrae (par) 
		8578↓	pars dorsalis substantiae nigrae (par)  ; pars posterior substantiae nigrae (par) 
		8579	subnucleus dorsolateralis (par)  ; subnucleus posterolateralis (par) 
		8580	subnucleus dorsomedialis (par)  ; subnucleus posteromedialis (par) 
		8581	pars ventralis substantiae nigrae (par)  ; pars anterior substantiae nigrae (par) 
		8582	subnucleus ventrolateralis (par)  ; subnucleus anterolateralis (par) 
		8583	subnucleus ventrointermedius (par)  ; subnucleus anterointermedius (par) 
		8584	subnucleus ventromedialis (par)  ; subnucleus anteromedialis (par) 
<a href="#">76844</a>		5599	pars lateralis substantiae nigrae (par) 
		8585	pars medialis substantiae nigrae (par) 
			mesencephalon (pair)
			oculomotor nucleus (pair)  ; nucleus of oculomotor nerve (pair)
			central caudal nucleus (pair) 
			interoculomotor nucleus (pair) 
			visceromotor nuclei of tegmentum of mesencephalon (pair) 
			accessory nuclei of oculomotor nerve (pair)
			preganglionic part (pair) 
			nonganglionic part (pair) 
			anterior medial nucleus (pair)
			reticular nuclei of tegmentum of mesencephalon 
			mesencephalic reticular formation (pair)
			intracuneiform nucleus (pair) 
			cuneiform nucleus (pair) 
			mesencephalic locomotor region (pair) 
			neuromodulator nuclei of tegmentum of mesencephalon (pair) 
			raphe nuclei of mesencephalon (pair); serotonergic cells (pair)
			linear raphe nucleus (pair); serotonergic cells B8 (pair)
			dorsal raphe nucleus; serotonergic cells B7 
			dopaminergic nuclei (pair) 
			dopaminergic cells of ventral tegmental area (pair)  ; dopaminergic cells A10 (pair) 
			dopaminergic cells of compact part of substantia nigra (pair)  ; dopaminergic cells A9 (pair) 
			retrorubral dopaminergic cells (pair)  ; dopaminergic cells A8 (pair) 
			substantia nigra (pair)
			compact part of substantia nigra (pair) 
			dorsal part of substantia nigra (pair)  ; posterior part of substantia nigra (pair)  ; dorsal tier of substantia nigra (pair)
			dorsolateral subnucleus (pair)  ; posterolateral subnucleus (pair) 
			dorsomedial subnucleus (pair)  ; posteromedial subnucleus (pair) 
			ventral part of substantia nigra (pair)  ; anterior part of substantia nigra (pair)  ; ventral tier of substantia nigra (pair)
			ventrolateral subnucleus (pair)  ; anterolateral subnucleus (pair) 
			ventrointermediate subnucleus (pair)  ; anterointermediate subnucleus (pair) 
			ventromedial subnucleus (pair)  ; anteromedial subnucleus (pair) 
			lateral part of substantia nigra (pair) 
			medial part of substantia nigra (pair) 

<a href="#">62908</a>		5600	pars reticulata substantiae nigrae (par)	reticular part of substantia nigra (pair) 
		12250	area tegmentalis ventralis (par)  ; area tegmentalis anterior (par) 	ventral tegmental area (pair)  ; anterior tegmental area (pair) 
		5654	nuclei tegmentales ventrales mesencephali (par)  ; nuclei tegmentales anteriores mesencephali (par) 	ventral tegmental nuclei of mesencephalon (pair)  ; anterior tegmental nuclei of mesencephalon (pair) 
		8586	nucleus linearis rostralis (par)  ; nucleus linearis superior (par) 	rostral linear nucleus (pair)  ; superior linear nucleus (pair) 
		8587	nucleus linearis caudalis (par)  ; nucleus linearis inferior (par) 	caudal linear nucleus (pair)  ; inferior linear nucleus (pair) 
<a href="#">77495</a>		5655	nucleus interfascicularis (par) 	interfascicular nucleus (pair) 
<a href="#">77497</a>		5657	nucleus paranigralis (par)	parablack nucleus (pair) 
<a href="#">77496</a>		5656	nucleus parabrachialis pigmentosus (par) 	pigmented parabrachial nucleus (pair) 
<a href="#">84341</a>		5685	nucleus parapeduncularis (par) 	parapeduncular nucleus (pair) 
		8589	nuclei limbici tegmenti mesencephali (par) 	limbic nuclei of tegmentum of mesencephalon (pair) 
<a href="#">72437</a>		5646	nucleus peripeduncularis (par) 	peripeduncular nucleus (pair) 
		8590	nuclei precerebellares tegmenti mesencephali (par) 	precerebellar nuclei of tegmentum of mesencephalon (pair) 
<a href="#">62407</a>		5647	nucleus ruber (par) 	red nucleus (pair) 
<a href="#">72431</a>		5648	pars magnocellularis (par) 	magnocellular part (pair) 
<a href="#">72430</a>		5649	pars parvocellularis (par) 	parvocellular part (pair) 
<a href="#">77493</a>		5650	pars posteromedialis (par)  ; pars dorsomedialis (par) 	posteromedial part (pair)  ; dorsomedial part (pair) 
<a href="#">83937</a>		5602	substantia alba tegmenti mesencephali 	white matter of tegmentum of mesencephalon  ; white substance of tegmentum of mesencephalon
		7464	radices centrales tegmenti mesencephali (par) 	central roots of tegmentum of mesencephalon (pair) 
<a href="#">72489</a>		5464	tractus mesencephalicus nervi trigeminalis  	mesencephalic tract of trigeminal nerve  
		9066	tractus longi tegmenti mesencephali (par) 	long tracts of tegmentum of mesencephalon (pair) 
		9067	tractus ascendentes medullae spinalis (par) 	ascending tracts of spinal cord (pair) 
<a href="#">77766</a>		12531	tractus anterolateralis  ; systema anterolaterale  ; lemniscus spinalis  	anterolateral tract  ; anterolateral system  ; spinal lemniscus  
		5327	fibrae spinomesencephalicae  	spinomesencephalic fibres   
		7956	fibrae spinointercolliculares  	spinointercollicular fibres   
		8594	tractus ascendentes trunci encephali (par) 	ascending tracts of brain stem (pair) 
		8485	fibrae nigrostriatales  	nigrostriatal fibres   
<a href="#">72502</a>		5468	lemniscus lateralis  	lateral lemniscus  
		7460↓	tractus vestibulomesencephalici  	vestibulomesencephalic tracts  
		8427	tractus vestibulomesencephalicus medialis  	medial vestibulomesencephalic tract  
		8428	tractus vestibulomesencephalicus lateralis  	lateral vestibulomesencephalic tract  
		8429	tractus vestibulomesencephalicus ventralis  	ventral vestibulomesencephalic tract  
		8430↓	tractus vestibulothalamicus  	vestibulothalamic tract  
<a href="#">83852</a>		8426↓	tractus trigeminothalamici  	trigeminothalamic tracts  
		12170	tractus trigeminothalamicus lateralis  	lateral trigeminothalamic tract  
<a href="#">72500</a>		5463	tractus trigeminothalamicus posterior  ; tractus trigeminothalamicus dorsalis  	posterior trigeminothalamic tract  ; dorsal trigeminothalamic tract  



	5462	tractus trigeminothalamicus anterior (U); tractus trigeminothalamicus ventralis (U); lemniscus trigeminalis (C)	anterior trigeminothalamic tract (U); ventral trigeminothalamic tract (U); trigeminal lemniscus (C)
	8603	tractus efferentes cerebelli (par) (U)	efferent tracts of cerebellum (pair) (U)
<a href="#">72495</a>	5760	pedunculus cerebellaris superior (C)	superior cerebellar peduncle (C)
	12256	tractus afferentes telencephali (par) (U)	afferent tracts of telencephalon (pair) (U)
	8118	fibrae striatonigrales (U) (C)	striatonigral fibres (U) (C)
	8122	fibrae pallidofugales (U) (C)	pallidofugal fibres (U) (C)
	8605	tractus descendentes (par) (U)	descending tracts (pair) (U)
	8126	fibrae amygdalotegmentales (U) (C)	amygdalotegmental fibres (U) (C)
<a href="#">77482</a>	8415	tractus hypothalamospinalis (U) (C)	hypothalamospinal tract (U) (C)
	8481	tractus rubrospinalis (U) (C)	rubrospinal tract (U) (C)
<a href="#">72452</a>	5623	decussatio tegmentalis ventralis (U); decussatio tegmentalis anterior (U) (C)	decussation of rubrospinal tract; anterior tegmental decussation (U); ventral tegmental decussation (U) (C)
	7930	fasciculus longitudinalis medialis (U) (C)	medial longitudinal fasciculus (U) (C)
	8494	tractus interstitiospinalis (U) (C)	interstitiospinal tract (U) (C)
	8490	tractus tegmentalis medialis (U) (C)	medial tegmental tract (U) (C)
	8491	tractus pretectoolivaris (U) (C)	pretectoolivary tract (U) (C)
	8492	tractus prerubroolivaris (U) (C)	prerubroolivary tract (U) (C)
<a href="#">83850</a>	5476	tractus tegmentalis centralis (U) (C)	central tegmental tract (U) (C)
<a href="#">77050</a>	5322	tractus rubroolivares (U) (C)	rubroolivary tracts (U) (C)
	8035	substantia alba pedunculi cerebri (par) (U)	white matter of cerebral peduncle (pair) (U); white substance of cerebral peduncle (pair)
<a href="#">72634</a>	8526	tractus pyramidalis (U) (C)	pyramidal tract (U) (C)
	5624	fibrae corticomesencephalicae (U) (C)	corticomesencephalic fibres (U) (C)
	9196	tractus corticorubralis (U) (C)	corticorubral tract (U) (C)
	12543	tractus corticopontini (U) (C)	corticopontine tracts (U) (C)
<a href="#">75223</a>	6243	tractus frontopontinus (U) (C)	frontopontine tract (U) (C)
	8533	tractus occipitoparietotemporopontinus (U) (C)	occipitoparietotemporopontine tract (U) (C)

161 lines

## SCIENTIFIC NOTES

### UID Libelle of note

5575 Traditionally, the Mesencephalon was subdivided into the Tectum (the Colliculi) and the Pedunculus (the Crus cerebri, the Substantia.VTA complex and the Tegmentum mesencephali). Here it is advocated to use the term Pedunculus only for what it actually is: a large bundle of fibres from the Telencephalon to the Brain stem and Spinal cord.

5598 The Pars compacta may be further subdivided into two parts or tiers, each with subnuclei (Braak H, Braak E 1986 Nuclear configuration and neuronal types of the nucleus niger in the brain of the human adult. Human Neurobiol 5:71-82; van Domburg PHMF, ten Donkelaar HJ 1991 The human substantia nigra and ventral tegmental area. Adv Anat Embryol Cell Biol 121:1-130); here, the subdivision by Halliday G, Reyes S, Double K (2012 Substantia nigra, ventral tegmental area and retrorubral fields. In: Mai JK, Paxinos G, eds: The Human Nervous System, 3rd ed. Elsevier, Amsterdam, pp 439-455) is used. The various subnuclei partly correspond to the subdivision into Nigrosomes and Matrix (Damier P, Hirsch EC, Agid Y, Graybiel AM 1999 The substantia nigra of the human brain. I. Nigrosomes and the nigral matrix, a compartmental organization based on calbindin D28k immunohistochemistry. Brain 122:1421-1436).

5672 The Nucleus externus is a laminar structure; in Amunts K, Morosan P, Hilbig H, Zilles K (2012 Auditory system. In: Mai JK, Paxinos G, eds: The Human Nervous System, 3rd ed. Elsevier, Amsterdam, pp 1270-1300) described as External cortex of Inferior colliculus (ECIC) to replace the TA term Nucleus lateralis. In TH, the Nucleus pericentralis is described as Dorsal cortex with Layers I-IV, based on: Geniec P, Morest DK (1971) The neuronal architecture of the human posterior colliculus; Acta Oto-Laryngol 295:(Suppl):1-33; supported by immunohistochemical data in rhesus monkeys by Amunts et al. (2012; their Dorsal cortex of inferior colliculus).

5673 See note # 5672

7460 The Tractus vestibulomesencephalici include (Büttner-Ennever JA, Gerrits NM 2004 Vestibular system. In: Paxinos G, Mai JK, eds. The Human Nervous System, 2nd ed. Elsevier, Amsterdam, pp 1213-1240): the Tractus vestibulomesencephalicus medialis, containing fibres from Vestibular nuclei to Oculomotor nuclei, passing via the MLF; the Tractus vestibulomesencephalicus lateralis, with fibres from the Lateral vestibular nucleus to Oculomotor nuclei, passing just lateral to the MLF (eponym: Ascending tract of Deiters; the Tractus vestibulomesencephalicus ventralis, with fibres from the Y group and the Superior vestibular nucleus crossing in the Ventral tegmentum either within or below the Brachium conjunctivum.

8426 (Tractus trigeminothalamici): The Tractus trigeminothalamicus anterior arises in the Spinal trigeminal nucleus and joins the Medial lemniscus, whereas the Tractus trigeminothalamicus lateralis arises in the Caudal part of the Spinal

trigeminal nucleus and joins the Anterolateral tract.

8430 (Tractus vestibulothalamicus): In monkeys, Vestibulothalamic projections pass via both the FLM and the Ascending tract of Deiters (Lang W, Büttner-Ennever JA, Büttner U 1979 Vestibular projections to the monkey thalamus: An autoradiographic study. Brain Res 177:3-17). Zwergal et al. (2008) demonstrated a Vestibulothalamic tract adjacent to the Medial lemniscus in humans (Zwergal A, Büttner-Ennever JA, Brandt T, Strupp M 2008 An ipsilateral vestibulothalamic tract adjacent to the medial lemniscus in humans. Brain 131:2928-2935).

8578 The two 'Olfactory gyri' in TA suggested their presence as clearly identifiable structures; this is not true. These terms remained from the classic description of the Rhinencephalon (see Gastaut H, Lammers HJ 1961 Anatomie du rhinencéphale. Masson, Paris) and have been deleted. The Cortex piriformis or Cortex olfactorius primarius is the real Olfactory cortex, and can be divided into Frontal and Temporal parts (Allison AC 1954 The secondary olfactory areas in the human brain. J Anat (Lond) 88:481-488; Heimer L, de Olmos J, Alheid GF, et al. 1999 The human basal forebrain, Part 2. Handb Chem Neuroanat 15:57-226).

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