













































































# medulla spinalis

## PARTONOMY LIST

FMA	TA	UID	Short official Latin term	Short English equivalent
<a href="#">7647</a>		5138	medulla spinalis 	spinal cord
		7982	morphologia externa medullae spinalis	external morphology of spinal cord
<a href="#">74893</a>		5139	intumescencia cervicalis 	cervical enlargement 
<a href="#">74895</a>		5140	intumescencia lumbosacralis 	lumbosacral enlargement 
<a href="#">74897</a>		5141	conus medullaris 	medullary cone  ; conus medullaris
<a href="#">83798</a>		5145	sulcus medianus posterior  ; sulcus medianus dorsalis 	posterior median sulcus  ; dorsal median sulcus 
<a href="#">77437</a>		5146	septum medianum posterius  ; septum medianum dorsale  	posterior median septum  ; dorsal median septum  
<a href="#">75609</a>		5148	sulcus posterolateralis (par)  ; sulcus dorsolateralis (par) 	posterolateral sulcus of spinal cord (pair)  ; dorsolateral sulcus of spinal cord (pair) 
<a href="#">83799</a>		5149	sulcus intermedius posterior (par)  ; sulcus intermedius dorsalis (par) 	posterior intermediate sulcus of spinal cord (pair)  ; dorsal intermediate sulcus of spinal cord (pair) 
<a href="#">79877</a>		5147	sulcus anterolateralis (par)  ; sulcus ventrolateralis (par) 	anterolateral sulcus of spinal cord (pair)  ; ventrolateral sulcus of spinal cord (pair) 
<a href="#">83735</a>		5144	fissura mediana anterior  ; fissura mediana ventralis 	anterior median fissure  ; ventral median fissure 
<a href="#">71166</a>		5151	pars cervicalis medullae spinalis 	cervical part of spinal cord 
<a href="#">256653</a>		7985	segmenta cervicalia 	cervical segments 
<a href="#">71179</a>		7986	segmentum cervicale 1 	cervical segment 1 
<a href="#">71180</a>		7987	segmentum cervicale 2 	cervical segment 2 
<a href="#">71181</a>		7988	segmentum cervicale 3 	cervical segment 3 
<a href="#">71182</a>		7989	segmentum cervicale 4 	cervical segment 4 
<a href="#">71183</a>		7990	segmentum cervicale 5 	cervical segment 5 
<a href="#">71184</a>		7991	segmentum cervicale 6 	cervical segment 6 
<a href="#">71185</a>		7993	segmentum cervicale 7 	cervical segment 7 
<a href="#">71186</a>		7994	segmentum cervicale 8 	cervical segment 8 
<a href="#">71167</a>		5152	pars thoracica medullae spinalis 	thoracic part of spinal cord 
<a href="#">71167</a>		7995	segmenta thoracica medullae spinalis 	thoracic segments of spinal cord 
<a href="#">62421</a>		7996	segmentum thoracicum 1 	thoracic segment 1 
<a href="#">62422</a>		7997	segmentum thoracicum 2 	thoracic segment 2 
<a href="#">71169</a>		7999	segmentum thoracicum 3 	thoracic segment 3 
<a href="#">71170</a>		8001	segmentum thoracicum 4 	thoracic segment 4 
<a href="#">71171</a>		8003	segmentum thoracicum 5 	thoracic segment 5 
<a href="#">71172</a>		8004	segmentum thoracicum 6 	thoracic segment 6 
<a href="#">71173</a>		8005	segmentum thoracicum 7 	thoracic segment 7 
<a href="#">71174</a>		8007	segmentum thoracicum 8 	thoracic segment 8 
<a href="#">71175</a>		8008	segmentum thoracicum 9 	thoracic segment 9 
<a href="#">71176</a>		8010	segmentum thoracicum 10 	thoracic segment 10 
<a href="#">71177</a>		8011	segmentum thoracicum 11 	thoracic segment 11 
<a href="#">71178</a>		8012	segmentum thoracicum 12 	thoracic segment 12 
<a href="#">71168</a>		5153	pars lumbalis medullae spinalis 	lumbar part of spinal cord 
		8013	segmenta lumbalia medullae spinalis 	lumbar segments of spinal cord 
<a href="#">71187</a>		8015	segmentum lumbale 1 	lumbar segment 1 
<a href="#">71188</a>		8016	segmentum lumbale 2 	lumbar segment 2 
<a href="#">71189</a>		8017	segmentum lumbale 3 	lumbar segment 3 












<a href="#">71190</a>	8018	segmentum lumbale 4 (U)	lumbar segment 4 (U)
<a href="#">71191</a>	8019	segmentum lumbale 5 (U)	lumbar segment 5 (U)
<a href="#">256663</a>	 5154	pars sacralis medullae spinalis (U)	sacral part of spinal cord (U)
	8020	segmenta sacralia medullae spinalis (U)	sacral segments of spinal cord (U)
<a href="#">256625</a>	8021	segmentum sacrale 1 (U)	sacral segment 1 (U)
<a href="#">256627</a>	8022	segmentum sacrale 2 (U)	sacral segment 2 (U)
<a href="#">256629</a>	8023	segmentum sacrale 3 (U)	sacral segment 3 (U)
<a href="#">256631</a>	8024	segmentum sacrale 4 (U)	sacral segment 4 (U)
<a href="#">256633</a>	8025	segmentum sacrale 5 (U)	sacral segment 5 (U)
<a href="#">256635</a>	 5155	pars coccygea medullae spinalis (U)	coccygeal part of spinal cord (U)
	8026	segmenta coccygea medullae spinalis (U)	coccygeal segments of spinal cord (U)
	8027	segmentum coccygeum 1 (U)	coccygeal segment 1 (U)
	8028	segmentum coccygeum 2 (U)	coccygeal segment 2 (U)
	8030	segmentum coccygeum 3 (U)	coccygeal segment 3 (U)
	7984	morphologia interna medullae spinalis	internal morphology of spinal cord
<a href="#">256580</a>	 5157	substantia grisea medullae spinalis (U)	grey matter of spinal cord (U); grey substance of spinal cord ▲
<a href="#">256530</a>	 5176	columna posterior (par) (U); columna dorsalis (par) (U)	posterior column of spinal cord (pair) (U); dorsal column of spinal cord (pair) (U)
	 5177	cornu posterius (par) (U); cornu dorsale (par) (U)	posterior horn of spinal cord (pair) (U); dorsal horn of spinal cord (pair) (U)
<a href="#">68862</a>	 5179	lamina spinalis I (par) (U); zona marginalis (par) (U)	spinal layer I of spinal cord (pair) (U); marginal zone of spinal cord (pair) (U)
<a href="#">74019</a>	 5181	lamina spinalis II (par) (U); substantia gelatinosa (par) (U)	spinal layer II (pair) (U); gelatinous matter (pair) (U)
<a href="#">73906</a>	 5183	lamina spinalis III-IV (par) (U); nucleus proprius (par) (U)	spinal layer III-IV (pair) (U); nucleus proprius (pair)
<a href="#">68866</a>	 5184	lamina spinalis V (par) (U)	spinal layer V (pair) (U)
<a href="#">68867</a>	 5186	lamina spinalis VI (par) (U)	spinal layer VI (pair) (U)
<a href="#">73909</a>	7821	processus reticularis (par) (U)	reticular process of spinal cord (pair) (U)
<a href="#">73921</a>	 5189	nucleus cervicalis lateralis (par) (U)	lateral cervical nucleus of spinal cord (pair) (U)
<a href="#">77022</a>	 5191	nucleus spinalis lateralis (par) (U); nucleus posterior funiculi lateralis (par) (U)	lateral spinal nucleus (pair) (U); posterior nucleus of lateral funiculus of spinal cord (pair) (U)
	7822	neura cornus posterioris (par) (U); neura cornus dorsalis (par) (U)	neurons of posterior horn of spinal cord (pair) (U); neurons of dorsal horn (pair) (U)
	7823	interneura cornus posterioris (par) (U); interneura cornus dorsalis (par) (U)	interneurons of posterior horn of spinal cord (pair) (U); interneurons of dorsal horn (pair) (U)
	8002	interneura excitatoria cornus posterioris (par) (U)	excitatory interneurons of posterior horn of spinal cord (pair) (U); excitatory interneurons of dorsal horn (pair)
	7824	cellulae centrales transientes laminae spinalis II (par) (U)	transient central cells of spinal layer II (pair) (U)
	7825	cellulae radiales laminae spinalis II (par) (U)	radial cells of spinal layer II (pair) (U)
	7826	cellulae verticales laminae spinalis II (par) (U)	vertical cells of spinal layer II (pair) (U)
	8006	interneura inhibitoria cornus posterioris (par) (U)	inhibitory interneurons of posterior horn of spinal cord (pair) (U); inhibitory interneurons of dorsal horn (pair)
	7827	cellulae insulares laminae spinalis II (par) (U)	islet cells of spinal layer II (pair)
	7828	cellulae centrales tonicae laminae spinalis II (par) (U)	tonic central cells of spinal layer II (pair) (U)
	7829	interneura inhibitoria Ib laminae spinalis VI (par) (U)	Ib inhibitory interneurons of spinal layer VI (pair)
























































































































7830		neura projectionis cornus posterioris (par)  ; neura funicularia cornus posterioris (par) 	projection neurons of posterior horn of spinal cord (pair); funicular neurons of posterior horn of spinal cord (pair)  ; spinal tract neurons of posterior horn of spinal cord (pair); projection neurons of dorsal horn (pair)
7831		neura marginalia laminae spinalis I (par) 	marginal neurons of spinal layer I of spinal cord (pair) 
7832		cellulae originis tractus spinocervicalis (par) 	cells of origin of spinocervical tract (pair) 
7833		cellulae originis tractus spinoreticularis (par) 	cells of origin of spinoreticular tract (pair) 
7834		cellulae originis tractus spinomesencephalici (par) 	cells of origin of spinomesencephalic tract (pair) 
7835		cellulae originis tractus spinothalamici (par) 	cells of origin of spinothalamic tract (pair) 
7836		cellulae originis fibrae postsynpticae tractus funiculi dorsalis (par)	cells of origin of postsynaptic dorsal funicular tract (pair)
8014		neura associationis cornus posterioris (par)  ; neura propriospinalia cornus dorsalis (par) 	association neurons of posterior horn of spinal cord (pair); propriospinal neurons of dorsal horn (pair) 
7837↓		neura propriospinalia brevia laminae spinalis V (par) 	short propriospinal neurons of spinal layer V (pair) 
7838		neura propriospinalia brevia laminae spinalis VI (par) 	short propriospinal neurons of spinal layer VI (pair) 
<a href="#">256536</a> 	5192	columna intermedia (par) 	intermediate column of spinal cord (pair) 
	8220	zona intermedia (par) 	intermediate zone (pair) 
<a href="#">68868</a> 	5193	lamina spinalis VII (par) 	spinal layer VII (pair) 
<a href="#">83137</a> 	5196	substantia intermedia centralis (par) 	central intermediate substance of spinal cord (pair) 
<a href="#">73912</a> 	5197	nucleus thoracicus posterior (par)  ; nucleus thoracicus dorsalis (par) 	posterior thoracic nucleus (pair)  ; dorsal thoracic nucleus (pair) 
<a href="#">77021</a> 	5190	nucleus cervicalis centralis (par) 	central cervical nucleus (pair) 
<a href="#">73918</a> 	5199	nucleus intermediomedialis (par) 	intermediomedial nucleus (pair) 
	8029	nucleus intercalatus spinalis (par) 	spinal intercalated nucleus (pair) 
<a href="#">83928</a> 	5198	substantia intermedia lateralis (par) 	lateral intermediate substance of spinal cord (pair) 
<a href="#">77764</a> 	5200	nucleus parasympathicus sacralis (par) 	sacral parasympathetic nucleus (pair) 
<a href="#">256536</a> 	5194	cornu laterale (par) 	lateral horn of spinal cord (pair) 
<a href="#">73915</a> 	5195↓	nucleus intermediolateralis (par) 	intermediolateral nucleus (pair) 
	7839	pars principalis (par) 	principal part (pair) 
	7840	pars funicularis (par) 	funicular part (pair) 
	7841	centrum ciliospinale (par) 	ciliospinal centre (pair)  ▲
	7842	neura zonae intermediae (par) 	neurons of intermediate zone (pair) 
	7843	interneura zonae intermediae (par) 	interneurons of intermediate zone (pair) 
	7844	interneura excitatoria zonae intermediae (par) 	excitatory interneurons of intermediate zone (pair) 
	7845	interneura inhibitoria zonae intermediae (par) 	inhibitory interneurons of intermediate zone (pair) 
	7846	interneura inhibitoria Ia laminae spinalis VII (par) 	Ia inhibitory interneurons of spinal layer VII (pair)
	7847	interneura inhibitoria recurrentia laminae spinalis VII (par) 	recurrent inhibitory interneurons of spinal layer VII (pair) 
	7848	neura projectionis zonae intermediae (par)  ; neura funicularia zonae intermediae (par) 	projection neurons of intermediate zone (pair); funicular neurons of intermediate zone (pair)  ; spinal tract neurons of intermediate zone (pair)
	7849	cellulae originis tractus spinocerebellaris (par) 	cells of origin of spinocerebellar tract (pair) 
	7850	cellulae originis tractus spinoreticularis (par) 	cells of origin of spinoreticular tract (pair) 

		cellulae originis tractus spinomesencephalici (par) (U)	cells of origin of spinomesencephalic tract (pair) (U)
		cellulae originis tractus spinothalamici lateralis (par) (U)	cells of origin of lateral spinothalamic tract (pair) (U)
		neura associationis zonae intermediae (par) (U); neura propriospinalia zonae intermediae (par) (U)	association neurons of intermediate zone (pair); propriospinal neurons of intermediate zone (pair) (U)
		neura propriospinalia brevia laminae spinalis VII (par) (U)	short propriospinal neurons of spinal layer VII (pair) (U)
		neura propriospinalia intermedia laminae spinalis VII (par) (U)	intermediate propriospinal neurons of spinal layer VII (pair) (U)
		neura propriospinalia longa laminae spinalis VII (par) (U)	long propriospinal neurons of spinal layer VII (pair) (U)
		motoneura zonae intermediae (par) (U)	motoneurons of intermediate zone (pair) (U)
		motoneura parasympathica spinalia (par) (U); motoneura parasympathica spinalia preganglionaria (par) (U)	spinal parasympathetic motoneurons (pair) (U); preganglionic spinal parasympathetic motoneurons (pair) (U); spinal parasympathetic motor neurons (pair)
		motoneura sympathica spinalia (par) (U); motoneura sympathica spinalia preganglionaria (par) (U)	spinal sympathetic motoneurons (pair) (U); preganglionic spinal sympathetic motoneurons (pair) (U); spinal sympathetic motor neurons (pair)
<a href="#">256541</a>		5164 columnae anterior (par) (U); columnae ventrales (par) (U)	anterior column of spinal cord (pair) (U); ventral column of spinal cord (pair) (U)
<a href="#">256541</a>		5165 cornu anterius (par) (U); cornu ventrale (par) (U)	anterior horn of spinal cord (pair) (U); ventral horn of spinal cord (pair) (U)
<a href="#">68869</a>		7860 lamina spinalis VIII (par) (U)	spinal layer VIII (pair) (U)
<a href="#">68870</a>		7861 lamina spinalis IX (par) (U)	spinal layer IX (pair) (U); motor nuclei (pair)
		7862 nuclei motorii mediales (par) (U)	medial motor nuclei of spinal cord (pair) (U)
<a href="#">73930</a>		5169 nucleus anteromedialis (par) (U); nucleus ventromedialis (par) (U)	anteromedial nucleus of spinal cord (pair) (U); ventromedial nucleus of spinal cord (pair) (U)
<a href="#">77015</a>		5172 nucleus posteromedialis (par) (U); nucleus dorsomedialis (par) (U)	posteromedial nucleus of spinal cord (pair) (U); dorsomedial nucleus of spinal cord (pair) (U)
		7863 nuclei motorii laterales (par) (U)	lateral motor nuclei of spinal cord (pair) (U)
<a href="#">77016</a>		5173 nucleus centralis (par) (U)	central nucleus of spinal cord (pair) (U)
<a href="#">77012</a>		5168 nucleus anterior (par) (U); nucleus ventralis (par) (U)	anterior nucleus of spinal cord (pair) (U); ventral nucleus of spinal cord (pair) (U)
<a href="#">73934</a>		5167 nucleus anterolateralis (par) (U); nucleus ventrolateralis (par) (U)	anterolateral nucleus of spinal cord (pair) (U); ventrolateral nucleus of spinal cord (pair) (U)
<a href="#">77013</a>		5170 nucleus posterolateralis (par); nucleus dorsolateralis (par) (U)	posterolateral nucleus of spinal cord (pair); dorsolateral nucleus of spinal cord (pair) (U)
<a href="#">77014</a>		5171 nucleus retroposterolateralis (par) (U); nucleus retrodorsolateralis (par) (U)	retroposterolateral nucleus of spinal cord (pair) (U); retrodorsolateral nucleus of spinal cord (pair) (U)
<a href="#">83965</a>		5174 nucleus nervi accessorii (par) (U)	nucleus of accessory nerve (pair) (U); spinal accessory nucleus (pair)
<a href="#">77458</a>		5175 nucleus nervi phrenici (par) (U)	nucleus of phrenic nerve (pair) (U)
<a href="#">77024</a>		5201 nucleus nervi pudendi (par) (U)	nucleus of pudendal nerve (pair) (U)
		7864 aggregatio motoneuronum (par)	motoneuron aggregation (pair); motor pool (pair)
		7865 neura cornus anterioris (par) (U); neura cornus ventralis (par) (U)	neurons of anterior horn of spinal cord (pair) (U); neurons of ventral horn of spinal cord (pair) (U)
		(U)	interneurons of anterior horn of spinal cord

7866		interneura cornus anterioris (par)  ; interneura cornus ventralis (par)	cord (pair) ; interneurons of ventral horn of spinal cord (pair)	
7867		interneura excitatoria (par)	excitatory interneurons (pair)	
7868		interneura inhibitoria (par)	inhibitory interneurons (pair)	
7869		neura projectionis cornus anterioris (par) ; neura projectionis cornus ventralis (par)	projection neurons of anterior horn of spinal cord (pair); projection neurons of ventral horn of spinal cord (pair)	
7870		cellulae marginales spinales laminae spinalis IX (par)	spinal marginal cells of spinal layer IX (pair) ; spinal border cells of spinal layer IX (pair)	
7871		neura associationis cornus anterioris (par) ; neura associationis cornus ventralis (par) ; neura propriospinalia cornus anterioris (par) ; neura propriospinalia cornus ventralis (par)	association neurons of anterior horn of spinal cord (pair); association neurons of ventral horn of spinal cord (pair); propriospinal neurons of anterior horn of spinal cord (pair) ; propriospinal neurons of ventral horn of spinal cord (pair)	
7872		neura propriospinalia longa laminae spinalis VIII (par)	long propriospinal neurons of spinal layer VIII (pair)	
7873		motoneura cornus anterioris (par) ; motoneura cornus ventralis (par)	motoneurons of anterior horn of spinal cord (pair) ; motoneurons of ventral horn of spinal cord (pair)	
7874		motoneura epaxialia (par)	epaxial motoneurons (pair)	
7875		motoneura hypaxialia (par)	hypaxial motoneurons (pair)	
7876		motoneura appendicularia (par)	appendicular motoneurons (pair)	
<a href="#">83664</a>		motoneura alpha (par)	alpha motoneurons (pair)	
7878		motoneura beta (par)	beta motoneurons (pair)	
<a href="#">83660</a>		7879	motoneura gamma (par)	gamma motoneurons (pair)
<a href="#">83945</a>		5204	substantia alba medullae spinalis	white matter of spinal cord ; white substance of spinal cord
<a href="#">77461</a>		5241	funiculus posterior (par) ; funiculus dorsalis (par)	posterior funiculus of spinal cord (pair) ; dorsal funiculus of spinal cord (pair)
		8470	radices centrales funiculi posterioris (par)	central roots of posterior funiculus of spinal cord (pair)
<a href="#">258416</a>		5245	fasciculus gracilis	gracile fasciculus
<a href="#">73941</a>		5246	fasciculus cuneatus	cuneate fasciculus
		7886	tractus intrinseci funiculi posterioris (par) ; fasciculi intrinseci funiculi posterioris (par)	intrinsic tracts of posterior funiculus of spinal cord (pair) ; propriospinal tracts of posterior funiculus of spinal cord (pair); ground bundles of posterior funiculus of spinal cord (pair)
<a href="#">77029</a>		5242↓	fasciculus propriospinalis posterior ; fasciculus propriospinalis dorsalis	posterior propriospinal fasciculus ; dorsal propriospinal fasciculus ; dorsal ground bundle; posterior ground bundle 
<a href="#">77030</a>		5243↓	fasciculus septomarginalis	septomarginal fasciculus
<a href="#">73944</a>		5244↓	fasciculus interfascicularis ; fasciculus semilunaris	interfascicular fasciculus ; semilunar fasciculus
		7947	fasciculus cornucommissuralis	cornucommissural fasciculus
		7891	tractus longi funiculi posterioris (par)	long tracts of posterior funiculus of spinal cord (pair) ; long tracts of dorsal dunculus (pair)
		7892	tractus ascendentes funiculi posterioris (par)	ascending tracts of posterior funiculus of spinal cord (pair) ; ascending fasciculi of dorsal funiculus (pair)
		5249	fibrae spinocuneatae	spinocuneate fibres
		5250	fibrae spinograciles	spinogracile fibres
		7961	tractus descendentes funiculi posterioris (par)	descending tracts of posterior funiculus of spinal cord (pair) ; descending fasciculi of dorsal funiculus (pair)
		5247	fibrae cuneospinales	cuneospinal fibres
		5248		



		fibrae gracilispinales	gracilospinal fibres ▲
7903		fasciculus posterolateralis funiculi posterioris (par) (U); fasciculus dorsolateralis funiculi posterioris (par) (U)	posterolateral fasciculus of posterior funiculus of spinal cord (pair) (U); dorsolateral fasciculus of posterior funiculus of spinal cord (pair) (U)
7897		zona ingressionis radices posterioris nervi spinalis (par) (U)	posterior root entry zone of spinal cord (pair)
7898		pars lateralis (par) (U)	lateral part (pair) (U)
7899		pars medialis (par) (U)	medial part (pair) (U)
20207		zona ramificationis radices posterioris nervi spinalis (par) (U)	branching zone of posterior root of spinal nerve (pair)
20210		zona collateralisationis radices posterioris nervi spinalis (par) (U)	zone of collateralisation of posterior root of spinal nerve (pair) (U)
11904		fibrae afferentes somatosensoriae (U) (C)	somatosensory afferent fibres (U) ▲ (C)
11905		fibrae afferentes proprioceptivae (U) (C)	proprioceptive afferent fibres (U) ▲ (C)
11906		fibrae afferentes viscerosensoriae (U) (C)	viscerosensory afferent fibres (U) ▲ (C)
<a href="#">74000</a>		5218 funiculus lateralis (par) (U)	lateral funiculus of spinal cord (pair) (U)
7904		tractus intrinseci (par) (U); fasciculi propriospinales funiculi lateralis (par) (U)	intrinsic tracts (pair) (U); propriospinal fasciculi (pair) (U); ground bundles (pair)
<a href="#">77027</a>		5219 fasciculus propriospinalis lateralis (U) (C)	lateral propriospinal fasciculus (U); lateral ground bundle (C)
<a href="#">75696</a>		5238 tractus spinocervicalis (U) (C)	spinocervical tract (U) (C)
7907		tractus longi (par) (U)	long tracts (pair) (U)
7908		tractus ascendentes (par) (U)	ascending tracts (pair) (U)
<a href="#">77766</a>		12531 tractus anterolateralis (U); systema anterolaterale (U); lemniscus spinalis (U) (C)	anterolateral tract (U); anterolateral system (U); spinal lemniscus (U) (C)
7948		tractus spinoreticularis (U) (C)	spinoreticular tract (U) (C)
7537		tractus spinoparabrachialis (U) (C)	spinoparabrachial tract (U) (C)
<a href="#">73968</a>		5226 tractus spinomesencephalicus (U) (C)	spinomesencephalic tract (U) (C)
<a href="#">73965</a>		5227 tractus spinothalamicus lateralis (U) (C)	lateral spinothalamic tract (U) (C)
7957↓		tractus spinohypothalamicus (U) (C)	spinohypothalamic tract (U) (C)
7958		tractus cervicothalamicus (U) (C)	cervicothalamic tract (U) (C)
12547		tractus spinoolivaris (U) (C)	spinoolivary tract (U) (C)
7539		tractus spinovestibularis (U) (C)	spinovestibular tract (U) (C)
7960		tractus spinocerebellares (U) (C)	spinocerebellar tracts (U) (C)
<a href="#">73950</a>		5319 tractus spinocerebellaris posterior (U); tractus spinocerebellaris dorsalis (U) (C)	posterior spinocerebellar tract (U); dorsal spinocerebellar tract (U) (C)
<a href="#">72642</a>		5312 tractus spinocerebellaris anterior (U); tractus spinocerebellaris ventralis (U) (C)	anterior spinocerebellar tract (U); ventral spinocerebellar tract (U) (C)
12058		tractus cuneocerebellaris (U) (C)	cuneocerebellar tract (U) (C)
8419		tractus spinocerebellaris rostralis (U) (C)	rostral spinocerebellar tract (U) (C)
7933		tractus descendentes (par) (U)	descending tracts (pair) (U)
8531		tractus corticospinalis lateralis (U) (C)	lateral corticospinal tract (U) (C)
8481		tractus rubrospinalis (U) (C)	rubrospinal tract (U) (C)
<a href="#">75689</a>		5224↓ tractus reticulospinalis lateralis (U); tractus bulboreticulospinalis (U) (C)	lateral reticulospinal tract (U); bulboreticulospinal tract (U); medullary reticulospinal tract (C)
<a href="#">75690</a>		8469 tractus fastigiospinalis (U) (C)	fastigiospinal tract (U) (C)
<a href="#">75691</a>		5221 tractus interpositospinalis (U) (C)	interpositospinal tract (U) (C)
<a href="#">75694</a>		5234 tractus caeruleospinalis (U) (C)	caeruleospinal tract (U); coeruleospinal tract (C)
<a href="#">77482</a>		8415 tractus hypothalamospinalis (U) (C)	hypothalamospinal tract (U) (C)

	8444	tractus raphespinalis lateralis  	lateral raphespinal tract  
	8447	tractus solitariospinalis  	solitariospinal tract  
<a href="#">75700</a> 	5240	tractus trigeminospinalis  	trigeminospinal tract  
<a href="#">74003</a> 	5205	funiculus anterior (par)  ; funiculus ventralis (par) 	anterior funiculus of spinal cord (pair)  ; ventral funiculus of spinal cord (pair) 
	8512	tractus intrinseci (par)  ; fasciculi propriospinales funiculi anterioris (par) 	intrinsic tracts (pair)  ; propriospinal fasciculi (pair)  ; ground bundles (pair)
<a href="#">77026</a> 	5206	fasciculus propriospinalis anterior  ; fasciculus propriospinalis ventralis  	anterior propriospinal fasciculus  ; ventral propriospinal fasciculus  ; anterior ground bundle; ventral ground bundle 
<a href="#">77028</a> 	5207	fasciculus sulcomarginalis  	sulcomarginal fasciculus  
	7732	tractus longi (par) 	long tracts (pair) 
	7719	tractus ascendentes (par) 	ascending tracts (pair) 
<a href="#">75684</a> 	5217	tractus spinothalamicus anterior  ; tractus spinothalamicus ventralis  	anterior spinothalamic tract  ; ventral spinothalamic tract  
	7725↓	tractus descendentes (par) 	descending tracts (pair) 
	8530	tractus corticospinalis anterior  ; tractus corticospinalis ventralis  	anterior corticospinal tract  ; ventral corticospinal tract  
<a href="#">73974</a> 	5318	tractus vestibulospinalis lateralis  	lateral vestibulospinal tract  
	8446	tractus vestibulospinalis medialis  	medial vestibulospinal tract  
	8494	tractus interstitiospinalis  	interstitiospinal tract  
<a href="#">73986</a> 	5212	tractus reticulospinalis medialis  ; tractus pontoreticulospinalis  	medial reticulospinal tract  ; pontoreticulospinal tract  ; pontine reticulospinal tract 
	8480	tractus tectospinalis  	tectospinal tract  
<a href="#">75686</a> 	5310	tractus raphespinalis anterior  ; tractus raphespinalis ventralis  	anterior raphespinal tract  ; ventral raphespinal tract  
<a href="#">77765</a> 	5251	structurae centrales medullae spinalis 	central cord structures
<a href="#">68871</a> 	5252	area spinalis X 	spinal area X 
<a href="#">77038</a> 	5253	commissura grisea anterior  ; commissura grisea ventralis 	anterior grey commissure  ; ventral grey commissure  ▲
<a href="#">77037</a> 	5254	commissura grisea posterior  ; commissura grisea dorsalis 	posterior grey commissure  ; dorsal grey commissure  ▲
<a href="#">77035</a> 	5255	commissura alba anterior  ; commissura alba ventralis 	anterior white commissure  ; ventral white commissure 
<a href="#">77034</a> 	5256	commissura alba posterior  ; commissura alba dorsalis 	posterior white commissure  ; dorsal white commissure 
<a href="#">78497</a> 	5156	canalis centralis  	central canal  
<a href="#">78498</a> 	5143	ventriculus terminalis  	terminal ventricle  

231 lines

## SCIENTIFIC NOTES

### UID Libelle of note

- 5177 The dorsal horn consists of [layer I](#) to [layer VI](#), including the sensory layers I-IV and the mixed layers V and VI (VI only present in the intumescences) as advocated in TA and by *Sengul G, Watson C (2012) Spinal cord: regional anatomy, cytoarchitecture and chemoarchitecture. In: Mai JK, Paxinos G, eds: The Human Nervous System, 3rd ed. Elsevier, Amsterdam, pp 186-232.* Layers I and II form the superficial dorsal horn, and layers III to VI the deep dorsal horn. The [intermediate zone](#) is interpreted as [layer VII](#) only, and the [ventral horn](#) consists of the [layer VIII](#) and [layer IX](#).
- 5195 See note # 19735
- 5224 For the Reticulospinal tracts various terms are used in the literature. Following the study on human reticulospinal fibres by Nathan PW, Smith MC, Deacon P (1996 Vestibulospinal, reticulospinal and descending propriospinal nerve fibres in man. *Brain* 119:1809-1833), here, a simplified subdivision into a Lateral (from The Myelencephalon) and a Medial reticulospinal tract (from the Pons) is advocated.
- 5242 Nathan and Smith described the Propriospinal fasciculi as Posterior or Dorsal, Lateral, and Anterior or Ventral Ground bundles (Nathan PW, Smith MC 1959 Fasciculi proprii of the spinal cord in man. *Brain* 82:610-668). The term Fasciculus septomarginalis (Septomarginal fasciculus) is used for: 1) the Oval bundle of Flechsig, present at lumbar levels; and 2) the Triangle of Philippe-Gombault, present at sacral levels (see Schoenen J, Grant G 2004 The spinal cord: Connections. In: Paxinos G, Mai JK, eds: The Human Nervous System, 2nd ed. Elsevier, Amsterdam, pp 236-265). The term Fasciculus interfascicularis is also known as the Comma tract of Schultze, present at cervical and high thoracic levels. According to Nathan and Smith (1959), the Comma tract consists of descending divisions of the

cervical and upper thoracic dorsal roots. The Fasciculus cornucommissuralis is present throughout the cord, best developed at lumbar levels; situated along the medial side of the posterior grey column abutting the posterior commissure. It consists of ipsilaterally running propriospinal fibres (see Schoenen and Grant 2004).

- 5243 See note # 5242  
5244 See note # 5242  
7725 See note # 24664

According to Kuypers HGJM (1981, *Anatomy of the descending pathways*. Chapter 13 in *Hb Physiol, The Nervous System II*. American Physiological Society, Bethesda, MD), propriospinal neurons, the intermediates between descending pathways and spinal motoneurons, can be subdivided into three groups: 1) Short propriospinal neurons with cell bodies located in the lateral parts of Laminae V-VII, with a range of 6-8 segments; 2) Intermediate propriospinal neurons with cell bodies mainly in the central part of Lamina VII, and axons extending over a subtotal number of cord segments (C>L; Th>S); 3) Long propriospinal neurons with cell bodies in the medial part of Lamina VII and in Lamina VIII, and extending over the whole extent of spinal cord segments.

- 7837  
7957 A Tractus spinohypothalamicus (Spinohypothalamic tract) has been characterized functionally in monkeys (Zhang X, Wenk HN, Gokin AP, et al. 1999 *Physiological studies of spinohypothalamic tract neurons in the lumbar enlargement of monkeys*. *J Neurophysiol* 82:1054-1058; see also Westlund KN, Willis WD Jr 2012 *Pain system*. IN: Mai JK, Paxinos G, eds: *The Human Nervous System*, 3rd ed. Elsevier, Amsterdam, pp 1144-1186).

- 19735 In their study on Autonomic neurons in the spinal cord, Petras JM, Cummings JF (1972 *Autonomic neurons in the spinal cord of the rhesus monkey*. *J Comp Neurol* 146:189-218) described the Nucleus intercalatus spinalis (Spinal intercalated nucleus) and subdivided the Nucleus intermediolateralis (Intermediolateral nucleus) into a Principal part and a Funicular part, extending into the Lateral funiculus.

- 24664 For the Tractus spinoolivaris (Spino-olivary tract) as eponym Helweg's tract is used. Smith and Deacon (Smith MC, Deacon P 1981 *Helweg's triangular tract in man*. *Brain* 104:249-277) denied that Helweg's tract contains spino-olivary fibres; more likely reticulospinal; Helweg's tract can be identified in Weigert-stained sections, but hardly in Luxol-Fast-Blue-stained sections. The term *Fibrae olivospinales* is deleted (non-existent); they are probably reticulospinal fibres; see Brodal A 1969 *Neurological Anatomy in Relation to Clinical Medicine*, 2nd ed. Oxford University Press, New York).

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