

Individual Striatal choline acetyltransferase-immunoreactive (ChAT-ir) axon length density (ALv; total axon length $\mu\text{m}/\text{planimetric volume mm}^3$) and total neuron densities (estimated total neuron population/ planimetric volume mm^3).

Species	Dorsal		Medial CN		Putamen	
	Dorsal CN ChAT-ir ALv	CN Total Nv	ChAT-ir ALv	Total Nv	ChAT-ir ALv	Total Nv
<i>Homo sapiens</i>	13470000	17180	18530000	20540	11460000	15500
<i>Homo sapiens</i>	14100000	21940	13230000	15530	14230000	16070
<i>Homo sapiens</i>	17600000	22930	39460000	14640	12380000	19900
<i>Homo sapiens</i>	11280000	22200	33510000	19200	10540000	14750
<i>Homo sapiens</i>	29830000	49470	21490000	14640	26000000	46290
<i>Homo sapiens</i>	20010000	24420	25850000	19200	22180000	44660
<i>Pan troglodytes</i>	34920	34920	61690000	28870	41680	41680
<i>Pan troglodytes</i>	21370	21370	72050000	27060	20030	20030
<i>Pan troglodytes</i>	37750	37750	66180000	42390	59820	59820
<i>Pan troglodytes</i>	14710	14710	135200000	52950	24910	24910
<i>Pan troglodytes</i>	43110	43110	145400000	98630	30700	30700
<i>Gorilla gorilla</i>	32830	32830	50600000	39360	32030	32030
<i>Gorilla gorilla</i>	34420	34420	34860000	40650	33620	33620
<i>Gorilla gorilla</i>	34980	34980	45610000	29780	39630	39630
<i>Gorilla gorilla</i>	14010	14010	35440000	30880	11970	11970
<i>Papio anubis</i>	25380000	91200	54600000	57290	24020000	117700
<i>Papio anubis</i>	24290000	101200	59780000	47220	27660000	93250
<i>Papio anubis</i>	24060000	95870	70140000	74430	29940000	95440
<i>Papio anubis</i>	28050000	68210	72750000	46050	28350000	70430
<i>Papio anubis</i>	25810000	72340	50830000	52140	22750000	75570

<i>Papio anubis</i>	37930000	73310	59510000	68750	63020000	131600
<i>Macaca nemestrina</i>	21760000	74870	39000000	29240	20490000	71000
<i>Macaca nemestrina</i>	17630000	87270	39100000	43890	18980000	95430
<i>Macaca nemestrina</i>	23340000	43680	44870000	30540	22380000	45450
<i>Macaca nemestrina</i>	16980000	36250	46590000	35520	16820000	38760
<i>Macaca nemestrina</i>	41520000	57120	57050000	60400	56820000	64270
<i>Macaca nemestrina</i>	25940000	52800	50810000	36470	23220000	53580
<i>Cebus apella</i>	25570000	77640	34520000	49580	26020000	69130
<i>Cebus apella</i>	25720000	127100	64730000	75150	26870000	147200
<i>Cebus apella</i>	33710000	71670	59650000	43060	30860000	77980
<i>Cebus apella</i>	23340000	105300	49970000	36480	23270000	122300
<i>Cebus apella</i>	27480000	78160	60520000	66620	27460000	93400
<i>Cebus apella</i>	33990000	108700	63260000	76400	34390000	145700

Table 4. Individual Globus Pallidus ChAT-ir ALv and Total Neuron values. Numbers are expressed in mm³.

Species	Intermediate		Anteromedial GPI ChAT-ir Alv	Anteromedial GPI Total Nv
	GPI ChAT-ir ALv	Intermediate GPI Total Nv		
<i>Homo sapiens</i>	11500000	9920	8000000	2010
<i>Homo sapiens</i>	7000000	3680	10400000	2220
<i>Homo sapiens</i>	16500000	3990	11100000	4450
<i>Homo sapiens</i>	5590000	1870	3640000	1300
<i>Homo sapiens</i>	2780000	2410	2070000	1920
<i>Pan troglodytes</i>	45900000	3970	43500000	2290
<i>Pan troglodytes</i>	11200000	5870	10600000	4890
<i>Pan troglodytes</i>	8920000	1710	7780000	1030
<i>Pan troglodytes</i>	7470000	8960	8580000	7930
<i>Pan troglodytes</i>	8590000	6440	9130000	8640
<i>Gorilla gorilla</i>	18300000	3720	24000000	4320
<i>Gorilla gorilla</i>	29500000	2260	31000000	1830
<i>Gorilla gorilla</i>	29600000	3040	39700000	3240
<i>Gorilla gorilla</i>	11000000	1750	11200000	1340
<i>Papio anubis</i>	3810000	9510	2240000	4080
<i>Papio anubis</i>	4540000	9300	4220000	7480
<i>Papio anubis</i>	3690000	4320	3990000	5550
<i>Papio anubis</i>	5330000	4530	4350000	4760
<i>Papio anubis</i>	3520000	17100	4630000	8370
<i>Papio anubis</i>	4450000	5060	2410000	4420

<i>Macaca nemestrina</i>	3680000	3320	3910000	5220
<i>Macaca nemestrina</i>	2680000	2480	6540000	3470
<i>Macaca nemestrina</i>	5760000	5970	3220000	4350
<i>Macaca nemestrina</i>	6190000	6570	2360000	5430
<i>Macaca nemestrina</i>	8280000	2880	3300000	5560
<i>Macaca nemestrina</i>	3890000	2990	3330000	5560

<i>Cebus apella</i>	7040000	4630	7970000	5060
<i>Cebus apella</i>	8760000	6120	14900000	6060
<i>Cebus apella</i>	10400000	6200	12400000	10900
<i>Cebus apella</i>	6300000	5600	8680000	10100
<i>Cebus apella</i>	4060000	8310	9730000	6310
<i>Cebus apella</i>	14900000	7520	14900000	10700

Striatal ChAT-ir neuron morphology percentages

	Cell type	Capuchin	Macaque	Baboon	Gorilla	Chimpanzee	Human
Caudate nucleus	Unipolar	0.06	0.25	0.27	0.00	0.06	0.00
	Bipolar	0.20	0.25	0.40	0.00	0.10	0.00
	Multipolar	0.74	0.50	0.23	1.00	0.84	1.00
Putamen	Unipolar	0.27	0.22	0.38	0.00	0.05	0.00
	Bipolar	0.29	0.25	0.25	0.04	0.10	0.06
	Multipolar	0.44	0.53	0.37	0.96	0.85	0.94

