

Table 2. Cellular composition of rodent brains

Species	<i>n</i>	M, g	M _{BR} , %	N _c	D _c	N _c BR, %	N _n , %	N _n	D _n	N _n BR, %	N _{nn}	D _{nn}	NnnBR, %
Cortex													
Mouse	4	0.173 ± 0.015	41.7 ± 2.8	25.75 ± 5.65 × 10 ⁶	147.32 ± 20.98 × 10 ³	23.9 ± 5.2	53.8 ± 4.9	13.69 ± 2.24 × 10 ⁶	78.67 ± 7.68 × 10 ³	19.6 ± 4.1	12.06 ± 3.67 × 10 ⁶	68.64 ± 15.81 × 10 ³	31.8 ± 7.2
Hamster	2	0.446 ± 0.048	43.8 ± 1.6	59.02 ± 2.27 × 10 ⁶	133.37 ± 19.47 × 10 ³	36.0 ± 6.5	29.0 ± 5.0	17.4 ± 3.62 × 10 ⁶	39.10 ± 12.33 × 10 ³	19.4 ± 6.1	41.87 ± 1.35 × 10 ⁶	94.27 ± 7.14 × 10 ³	55.8 ± 8.6
Rat	4	0.770 ± 0.113	42.9 ± 1.7	70.71 ± 3.02 × 10 ⁶	101.52 ± 17.40 × 10 ³	23.1 ± 1.2	40.6 ± 5.3	31.02 ± 3.03 × 10 ⁶	41.09 ± 8.00 × 10 ³	15.5 ± 0.9	45.69 ± 5.68 × 10 ⁶	60.43 ± 12.48 × 10 ³	34.6 ± 2.8
Guinea pig	2	1.938 ± 0.231	51.6 ± 0.7	152.13 ± 15.95 × 10 ⁶	78.54 ± 1.14 × 10 ³	31.8 ± 2.6	28.6 ± 1.0	43.51 ± 3.17 × 10 ⁶	22.51 ± 1.05 × 10 ³	18.2 ± 1.5	108.61 ± 12.78 × 10 ⁶	56.04 ± 0.09 × 10 ³	45.5 ± 2.8
Agouti	3	8.913 ± 1.214	48.4 ± 1.3	563.39 ± 16.56 × 10 ⁶	60.85 ± 7.58 × 10 ³	27.2 ± 1.0	21.0 ± 0.3	112.64 ± 3.92 × 10 ⁶	12.77 ± 1.43 × 10 ³	13.1*	423.74 ± 13.07 × 10 ⁶	48.09 ± 6.15 × 10 ³	40.0*
Capybara	2	48.175 ± 2.714	63.3 ± 0.4	2.15 ± 0.58 × 10 ⁹	44.45 ± 9.43 × 10 ³	44.0 ± 2.0	14.4 ± 1.0	306.30 ± 62.73 × 10 ⁶	6.34 ± 0.94 × 10 ³	19.1 ± 3.0	1.85 ± 0.51 × 10 ⁹	38.12 ± 8.49 × 10 ³	56.8 ± 1.7
Cerebellum													
Mouse	4	0.056 ± 0.005	13.5 ± 0.8	49.17 ± 10.63 × 10 ⁶	870.18 ± 151.41 × 10 ³	44.9 ± 4.3	85.8 ± 1.2	42.22 ± 9.28 × 10 ⁶	746.69 ± 128.54 × 10 ³	59.0 ± 5.0	6.95 ± 1.50 × 10 ⁶	123.49 ± 25.72 × 10 ³	18.4 ± 3.0
Hamster	2	0.145 ± 0.030	14.1 ± 0.9	68.65 ± 14.06 × 10 ⁶	475.33 ± 2.69 × 10 ³	41.1 ± 2.6	89.2 ± .2	61.21 ± 12.35 × 10 ⁶	424.00 ± 3.74 × 10 ³	67.7 ± 6.5	7.43 ± 1.71 × 10 ⁶	51.33 ± 1.05 × 10 ³	9.7 ± 0.4
Rat	4	0.272 ± 0.038	15.2 ± 1.0	168.18 ± 12.57 × 10 ⁶	631.24 ± 128.58 × 10 ³	50.7 ± 3.2	82.8 ± 3.2	139.17 ± 11.19 × 10 ⁶	522.69 ± 108.85 × 10 ³	69.6 ± 4.4	29.01 ± 6.28 × 10 ⁶	108.56 ± 29.35 × 10 ³	21.9 ± 3.8
Guinea pig	2	0.500 ± 0.077	13.3 ± 0.3	204.15 ± 6.68 × 10 ⁶	412.58 ± 50.28 × 10 ³	42.7 ± 0.4	82.2 ± 1.6	167.85 ± 2.18 × 10 ⁶	339.75 ± 48.07 × 10 ³	70.1 ± 1.7	36.29 ± 4.51 × 10 ⁶	72.82 ± 2.22 × 10 ³	15.2 ± 1.0
Agouti	3	2.742 ± 0.196	15.0 ± 0.6	831.18 ± 11.13 × 10 ⁶	304.30 ± 25.58 × 10 ³	42.7 ± 0.7	81.6 ± 3.2	678.79 ± 35.26 × 10 ⁶	248.82 ± 28.91 × 10 ³	74.6*	152.40 ± 24.13 × 10 ⁶	55.48 ± 6.75 × 10 ³	17.3*
Capybara	2	6.632 ± 1.312	8.7 ± 1.3	1.73 ± 0.09 × 10 ⁹	264.56 ± 39.29 × 10 ³	36.2 ± 6.3	67.0 ± 3.0	1.16 ± 0.05 × 10 ⁹	177.98 ± 34.39 × 10 ³	72.4 ± 3.3	570.94 ± 81.11 × 10 ⁶	86.57 ± 4.90 × 10 ³	18.0 ± 3.0
Remaining areas													
Mouse	4	0.186 ± 0.019	44.8 ± 2.8	33.78 ± 4.62 × 10 ⁶	180.96 ± 10.24 × 10 ³	31.2 ± 1.8	44.6 ± 4.0	14.99 ± 1.58 × 10 ⁶	80.67 ± 6.62 × 10 ³	21.3 ± 2.4	18.79 ± 3.59 × 10 ⁶	100.30 ± 11.25 × 10 ³	21.3 ± 2.4
Hamster	2	0.429 ± 0.069	42.1 ± 0.7	38.46 ± 11.97 × 10 ⁶	88.44 ± 13.75 × 10 ³	22.9 ± 3.9	31.4 ± 7.6	11.61 ± 0.81 × 10 ⁶	27.24 ± 2.45 × 10 ³	12.9 ± 0.5	26.84 ± 11.16 × 10 ⁶	61.20 ± 16.20 × 10 ³	12.9 ± 0.5
Rat	4	0.761 ± 0.171	42.0 ± 2.5	86.77 ± 12.25 × 10 ⁶	116.91 ± 21.99 × 10 ³	26.2 ± 3.7	34.2 ± 4.0	29.94 ± 7.27 × 10 ⁶	39.64 ± 6.48 × 10 ³	15.0 ± 3.6	56.83 ± 5.84 × 10 ⁶	77.27 ± 17.09 × 10 ³	15.0 ± 3.6
Guinea pig	2	1.321 ± 0.191	35.1 ± 0.4	121.60 ± 12.06 × 10 ⁶	93.69 ± 22.67 × 10 ³	25.5 ± 3.1	23.0 ± 4.4	28.26 ± 8.14 × 10 ⁶	22.07 ± 9.35 × 10 ³	11.8 ± 3.2	93.34 ± 3.92 × 10 ⁶	71.62 ± 13.32 × 10 ³	11.8 ± 3.2
Agouti	3	6.710 ± 0.670	36.6 ± 0.8	585.14 ± 52.27 × 10 ⁶	90.88 ± 19.67 × 10 ³	30.1 ± 1.7	19.1*	104.83*	14.72* × 10 ³	12.2*	443.35*	62.25* × 10 ³	12.2*
Capybara	2	21.229 ± 0.239	28.0 ± 1.7	983.37 ± 419.02 × 10 ⁶	46.44 ± 20.26 × 10 ³	19.7 ± 4.2	15.0 ± 5.1	136.81 ± 12.92 × 10 ⁶	6.45 ± 0.68 × 10 ³	8.5 ± 0.4	846.56 ± 406.10 × 10 ⁶	39.99 ± 19.58 × 10 ³	8.5 ± 0.4

Total													
Mouse	4	0.416 ± 0.028		108.69 ± 16.25 × 10 ⁶	256.39 ± 32.08 × 10 ³		65.3 ± 2.3	70.89 ± 10.41 × 10 ⁶	167.15 ± 19.42 × 10 ³		37.80 ± 6.66 × 10 ⁶	90.41 ± 10.14 × 10 ³	
Hamster	2	1.020 ± 0.147		166.12 ± 23.77 × 10 ⁶	164.65 ± 2.33 × 10 ³		54.3 ± 2.0	89.97 ± 9.55 × 10 ⁶	89.39 ± 2.07 × 10 ³		76.15 ± 14.22 × 10 ⁶	74.42 ± 3.21 × 10 ³	
Rat	4	1.802 ± 0.313		331.65 ± 8.84 × 10 ⁶	188.79 ± 36.65 × 10 ³		60.3 ± 2.3	200.13 ± 12.17 × 10 ⁶	113.98 ± 23.16 × 10 ³		131.52 ± 6.11 × 10 ⁶	74.82 ± 14.62 × 10 ³	
Guinea pig	2	3.759 ± 0.499		477.87 ± 10.57 × 10 ⁶	128.15 ± 16.40 × 10 ³		50.2 ± 1.7	239.62 ± 2.79 × 10 ⁶	64.42 ± 10.40 × 10 ³		238.24 ± 13.36 × 10 ⁶	63.70 ± 4.91 × 10 ³	
Agouti	3	18.365 ± 2.061		1.94 ± 0.06 × 10 ⁹	111.29 ± 18.24 × 10 ³		45.2*	856.74 × 10 ⁶ *	44.49 × 10 ³ *		1.04 × 10 ⁹ *	53.91 × 10 ³ *	
Capybara	2	76.036 ± 3.787		4.87 ± 1.08 × 10 ⁹	62.12 ± 10.40 × 10 ³		33.5 ± 5.8	1.60 ± 0.08 × 10 ⁹	20.54 ± 0.10 × 10 ³		3.27 ± 1.00 × 10 ⁹	42.67 ± 11.02 × 10 ³	

All values are given as mean ± SD. *n*, number of individuals analyzed; M, mass of structure (in g); M_{BR}, %, percentage of total brain mass contained in structure; N_c, number of cells in structure; D_c, density of cells per mg of tissue in structure; N_{cBR}, %, percentage of total brain cells contained in structure; N_n, %, percentage of cells in the structure that are neurons; N_n, number of neurons in structure; D_n, density of neurons per mg of tissue in structure; N_{nBR} %, percentage of total brain neurons contained in structure; N_{nn}, number of nonneuronal cells in structure; D_{nn}, density of non-neuronal cells per mg of tissue in structure; N_{nnBR}, %, percentage of total brain nonneuronal cells contained in structure.