Table 4. Estimated cost of mammalian brains.

Number of neurons	Total glucose use per minute (µmol/min)	Total glucose use per day (µmol/day)	Total glucose use per day (g/day)	Total caloric cost per day (kCal/day)
1 million	**0.00579**	**8.3**	**0.0015**	**0.006**
10 million	**0.0579**	**83**	**0.015**	**0.060**
Smoky shrew, 36 million[1]	0.2084	300	0.05	0.2
Mouse, 71 million[2]	0.4111	592	0.11	0.4
100 million	**0.579**	**833**	**0.15**	**0.6**
Rat, 200 million[2]	1.158	1667	0.30	1.2
Marmoset, 636 million[3]	3.68	5302	1.0	3.8
Agouti, 795 million[2]	4.60	6628	1.2	4.8
1 billion	**5.79**	**8337**	**1.5**	**6.0**
Owl monkey[3], capybara[2], 1.5 billion	8.68	12506	2.2	9.0
Macaque, 6.4 billion[3]	37.0	53361	9.6	38
10 billion	**57.9**	**83376**	**15**	**60**
Baboon, 11 billion[4]	63.7	91713	16	66
Orangutan, 30 billion[5]	173.7	250128	45.02	180
Human, 86 billion[6]	497.9	717033	129	516
100 billion	**579.0**	**833760**	**150**	**600**

[1]From (39);
[2]From (23);
[3]From (24);
[4]From (25);
[5]Estimated as 1/3 the number of neurons in the human cerebral cortex;
[6]From (26).

23. Attwell D, Laughlin SB (2001) An energy budget for signaling in the grey matter of the brain. J Cereb Blood FLow Metab 21: 1133–1145.
24. Herculano-Houzel S, Mota B, Lent R (2006) : Cellular scaling rules for rodent brains. Proc Natl Acad Sci U S A 103: 12138–12143.
25. Herculano-Houzel S, Collins CE, Wong P, Kaas JH (2007) Cellular scaling rules for primate brains. Proc Natl Acad Sci USA 104: 3562–3567.
26. Gabi M, Collins CE, Wong P, Torres LBP, Kaas JH, Herculano-Houzel S (2010) Cellular scaling rules for the brain of an extended number of primate species. Brain Behav Evol 76: 32–44.
39. Cragg BG (1967) The density of synapses and neurones in the motor and visual areas of the cerebral cortex. J Anatomy 101: 639–654.