Table S1. Anatomical data and sources. Note: Rodent brain data from (22) were corrected for an error as reported by (23)

| Common Name | Latin Name | Group | ECV (cc) | Body Mass (g) | Source # |
| --- | --- | --- | --- | --- | --- |
| Eurasian jay | *Garrulus glandarius* | Bird | 4.05 | 170.00 | 17 |
| orange-winged amazon | *Amazona amazonica* | 8.29 | 338.00 | 18 |
| song sparrow | *Melospiza melodia* | 1.06 | 21.00 | 19 |
| swamp sparrow | *Melospiza georgiana* | 0.81 | 17.60 | 18 |
| western scrub jay | *Aphelocoma californica* | 2.85 | 76.00 | 18 |
| white carnea pigeon | *Columba livia* | 2.40 | 264.50 | 19 |
| zebra finch | *Taeniopygia guttata* | 0.44 | 12.00 | 18 |
| coyote | *Canis latrans* | Carnivore | 85.16 | 10490.00 | 20 |
| domestic dog | *Canis familiaris* | 86.96 | 21763.00 | 19 |
| gray wolf | *Canis lupus* | 127.06 | 33110.00 | 20 |
| Asian elephant | *Elephas maximus* | Elephant | 4752.25 | 2977943.33 | 21 |
| aye aye | *Daubentonia madagascariensis* | Primates | 44.85 | 2555.00 | 5 |
| black lemur | *Eulemur macaco* | 24.51 | 2390.00 | 5 |
| bonobo | *Pan paniscus* | 341.29 | 39100.00 | 5 |
| brown lemur | *Eulemur fulvus* | 25.77 | 2291.67 | 5 |
| capuchin monkey | *Cebus apella* | 66.63 | 2935.93 | 5 |
| chimpanzee | *Pan troglodytes* | 368.35 | 44966.67 | 5 |
| Coquerel's sifaka | *Propithecus coquereli* | 26.21 | 2955.00 | 5 |
| golden monkey | *Rhinopithecus roxellana* | 117.76 | 14750.00 | 5 |
| golden-headed lion tamarin | *Leontopithecus chrysomelas* | 12.83 | 609.00 | 5 |
| gorilla | *Gorilla gorilla* | 490.41 | 120950.00 | 5 |
| hamadryas baboon | *Papio hamadryas* | 146.17 | 14150.00 | 5 |
| long-tailed macaque | *Macaca fascicularis* | 63.98 | 4251.05 | 5 |
| marmoset | *Callithrix jacchus* | 7.24 | 320.00 | 5 |
| mongoose lemur | *Eulemur mongoz* | 20.17 | 1212.44 | 5 |
| olive baboon | *Papio anubis* | 167.42 | 18150.00 | 5 |
| orangutan | *Pongo pygmaeus* | 377.38 | 58542.25 | 5 |
| red-bellied lemur | *Eulemur rubriventer* | 26.23 | 1960.00 | 5 |
| rhesus macaque | *Macaca mulatta* | 88.98 | 6792.77 | 5 |
| ring-tailed lemur | *Lemur catta* | 22.90 | 2210.00 | 5 |
| ruffed lemur | *Varecia variegata* | 32.12 | 3575.00 | 5 |
| spider monkey | *Ateles geoffroyi* | 105.09 | 7535.00 | 5 |
| squirrel monkey | *Saimiri sciureus* | 24.14 | 799.00 | 5 |
| stump-tailed macaque | *Macaca arctoides* | 100.70 | 10300.00 | 5 |
| fox squirrel | *Scurius niger* | Rodent | 8.72 | 786.00 | 22,23 |
| Mongolian gerbil | *Meriones unguiculatus* | 1.13 | 51.00 | 22,23 |