| Species | CFF | Mg | qWg | Brain Mass | Light levels |
|---|---|---|---|---|---|
| *Ambystoma tigrinums* | 30[e,s,1] | 10.78[28] | 0.00016[28] | NA | L |
| *Anguilla anguilla* | 14[b,s,2] | 71.1[28] | 0.00013[28] | NA | L |
| *Anolis cristatellus* | 70[e,o,3] | 6.0[29] | 0.00089[29] | NA | H |
| *Asio flammeus* | 70[e,o,4] | 406.0[30] | 0.0032[28] | 5.45[69] | H |
| *Bubo virginianus* | 45[e,s,5] | 1450.0[31] | 0.0036[28] | 13.7[70] | L |
| *Canis lupus familiaris* | 80[b,s,6] | 13900.0[32] | 0.00183[28] | 80.0[71] | H |
| *Carassius auratus* | 67.2[e,o,7] | 10.8[33] | 0.00013[28] | 0.01[71] | H |
| *Carcharhinus acronotus* | 18[e,o,8] | 14491.0[8] | 0.00114[56]* | NA | L |
| *Caretta caretta* | 40[e,s,9] | 135000.0[34] | 0.00008[57] | 2.7[40] | H |
| *Cavia porcellus* | 50[e,s,10] | 629.0[35] | 0.00306[35] | 3.8[72] | L |
| *Chelonia mydas* | 40[e,s,9] | 128000.0[36] | 0.00025[36] | 8.6[71] | H |
| *Columba livia* | 100[e,s,4] | 315.0[37] | 0.0045[28] | 2.3[70] | H |
| *Dermochelys coriacea* | 15[e,s,11] | 354000.0[38] | 0.00043[58] | 30.0[73] | H |
| *Felis catus* | 55[e,s,12] | 3054.4[32] | 0.00394[59] | 28.4[71] | L |
| *Gallus gallus domesticus* | 87[b,o,13] | 2710.0[39] | 0.0022[28] | 3.6[74] | H |
| *Gekko gecko* | 20[e,s,14] | 54.8[40] | 0.00034[28] | 0.2[75] | L |
| *Homo sapiens* | 60[b,o,15] | 67100.0[41] | 0.00117[60] | 1300.0[76] | H |
| *Iguana iguana* | 80[e,s,14] | 750.0[42] | 0.00029[28] | 0.61[75] | H |
| *Macaca mulatta* | 95[b,o,16] | 7710.0[43] | 0.00205[61] | 91.7[71] | H |
| *Melopsittacus undulatus* | 74.7[b,s,17] | 33.6[28] | 0.01204[28] | 1.5[70] | H |
| *Negaprion brevirostris* | 37[e,s,18] | 92987.0[44] | 0.00053[62]* | NA | L |
| *Oncorhynchus mykiss* | 27[b,s,19] | 4000.0[45] | 0.00041[28] | 0.5[71] | L |
| *Oryzias latipes* | 37.2[e,s,20] | 0.21[20] | 0.00072[28] | 0.01[77] | L |
| *Pagophilus groenlandicus* | 32.7[b,s,12] | 119600.0[46] | 0.00211[63] | 228.5[78] | L |
| *Raja erinacea* | 30[e,o,22] | 500.0[47] | 0.00024[47] | 2.32[71] | L |
| *Rattus norvegicus* | 39[e,o,23] | 237.0[48] | 0.00679[48] | 2.3[79] | L |
| *Spermophilus lateralis* | 120[e,o,10] | 215.5[49] | 0.00335[64] | 3.6[80] | H |
| *Sphenodon punctatus* | 45.6[b,s,24] | 353.75[50] | 0.00017[28] | NA | L |
| *Sphyrna lewini* | 27.3[e,o,8] | 1893.0[8, 51] | 0.0010[65]* | 60.0[77] | L |
| *Sturnus vulgaris* | 100[e,s,25] | 75.0[28] | 0.012[28] | 1.9[74] | H |
| *Tamias amoenus* | 100[e,o,10] | 51.91[52] | 0.00937[66] | 1.98[80] | H |
| *Tamiasciurus hudsonicus* | 60[e,o,10] | 215[35] | 0.00735[67] | 4.0[80] | H |
| *Thunnus albacares* | 80[e,s,26] | 45349.0[53, 54] | 0.00158[68]* | 6.24[77] | H |
| *Tupaia glis* | 90[b,o,27] | 142.0[55] | 0.00424[55] | 3.4[79] | H |

* Indicates species with qWg estimated from swimming speeds extrapolated to zero (see Methods in main text). CFF = Critical flicker fusion (CFF), Mg = body mass (grams), qWg = Temperature corrected (25°C) mass specific resting metabolic rate ($Wg^{-1}$), Light levels, H= High, L = Low. NA = No data available for species. Superscript indicates type of measurement, e = electroretinogram, b = behavioural experiments, o = optimum methodology, s = suboptimum methodology and numbers refer to data references; (1) Crevier & Meister (1998); (2) Adrian & Matthews (1926); (3) Fleishman et al. (1995); (4) Bornshein & Tansley (1961); (5) Ault & House (1987); (6) Coile et al. (1989); (7) Hanyu & Ali (1963); (8) McComb et al. (2010); (9) Levenson et al. (2004); (10) Tansley et al. (1961); (11) Eckert et al. (2006); (12) Loop & Berkeley (1975); (13) Lisney et al. (2011); (14) Meneghini & Hamasaki (1967); (15) Brundrett (1974); (16) Shumake et al. (1968); (17) Ginsburg & Nilsson (1971); (18) Gruber (1969); (19) Carvalho et al. (2004); (20) Carvalho et al. (2002); (21) Bernholz & Matthews (1975); (22) Green & Siegel (1975); (23) Williams et al. (1985); (24) Woo et al. (2009); (25) Greenwood et al. (2004); (26) Southwood et al. (2008); (27) Callahan & Petry (1999); (28) Makarieva et al. (2008); (29) Rogowitz (1996); (30) Graber (1962); (31) Ganey et al. (1993); (32) Kendall et al. (1982); (33) Hughes et al. (1977); (34) Duermit (2007); (35) Arends & McNab (2001); (36) Jackson & Prange (1979); (37) Terres (1980); (38) Georges & Fossette (2006); (39) Winchester (1940); (40) Hurlburt (1996); (41) Holloway (1980); (42) Howland et al. (2004); (43) Schwartz & Kemnitz (1992); (44) Allyn (1947); (45) Ridolfi (2006); (46) Stewart & and Lavigne (1984); (47) Hove & Moss (1997); (48) Hart (1971); (49) McKeever (1964); (50) Herrel et al. (2010); (51) Letourneur et al. (1998); (52) Sheppard (1968); (53) Collette & Nauen (1983); (54) Duarte-Neto & Lessa (2004); (55) Bradley & Hudson (2003); (56) Carlson (1999); (57) Lutz et al. (1989). (58) Paladino et al. (1996); (59) Eisenberg (1981); (60) Elgar & Harvey (1987); (61) Bruhn (1934); (62) Bushnell et al. (1989); (63) McNab (1986); (64) Hudson et al. (1972); (65) Lowe (2001); (66) Jones & Wang (1976); (67) Pauls (1981); (68) Dewar & Graham (1994); (69) Garamszegi et al. (2002); (70) Iwaniuk & Nelson (2002); (71)