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)