

Supplementary table S1

Species	Order	Family	Taxa	Mass (g)	BMR (KJ/h)	Tic (°C)	Tuc (°C)	Reference
<i>Abrothrix andinus</i>	Rodentia	Muridae	Mammal	34.6	1.3	26.8	34	Bozinovic & Rosenmann, 1988
<i>Abrothrix longipilis</i>	Rodentia	Muridae	Mammal	42.3	1.16	27.3	32	Bozinovic & Rosenmann, 1988
<i>Ammospermophilus leucurus</i>	Rodentia	Sciuridae	Mammal	96	1.99	31	34	Dawson, 1955
<i>Aotus trivirgatus</i>	Primates	Aotidae	Mammal	1020	9.22	28	30	Le-Maho <i>et al.</i> , 1981
<i>Artibeus jamaicensis</i>	Chiroptera	Phyllostomidae	Mammal	45.2	1.14	25	35	McNab, 1969
<i>Artibeus lituratus</i>	Chiroptera	Phyllostomidae	Mammal	70.1	1.74	25	36	McNab, 1969
<i>Bettongia gaimardi</i>	Diprutosodontia	Potoroidae	Mammal	1700	12.88	10	20	Rose, 1997
<i>Cabassous centralis</i>	Rodentia	Dasyproctidae	Mammal	3810	16.07	27.5	32.5	McNab, 1980
<i>Canis latrans</i>	Carnivora	Canidae	Mammal	10000	54	22	26	Golightly <i>et al.</i> , 1983
<i>Cannomys badius</i>	Rodentia	Muridae	Mammal	344	3.45	26.74	34.5	McNab, 1979
<i>Carollia perspicillata</i>	Chiroptera	Phyllostomidae	Mammal	14.9	0.63	29	35	McNab, 1969
<i>Cercartetus lepidus</i>	Diprutosodontia	Burramyidae	Mammal	12	0.38	29	33	Geiser, 1987
<i>Cercartetus nanus</i>	Diprutosodontia	Pseudocheiridae	Mammal	70	1.21	31	35	Bartholomew & MacMillen, 1961
<i>Cercopithecus mitis</i>	Diprutosodontia	Pseudocheiridae	Mammal	8500	68.27	5	28	Muller <i>et al.</i> , 1983
<i>Chaetodipus intermedius</i>	Rodentia	Heteromyidae	Mammal	15.2	0.31	33	36	Bradley <i>et al.</i> , 1975
<i>Colobus guereza</i>	Primates	Cercopithecidae	Mammal	10500	60.09	5	28	Muller <i>et al.</i> , 1983
<i>Crocidura russula</i>	Eulipotyphla	Soricidae	Mammal	10.4	0.46	27.5	35	Sparti, 1990
<i>Crocidura suaveolens</i>	Eulipotyphla	Soricidae	Mammal	6.5	0.38	27.5	35	Sparti, 1990
<i>Cryptomys damarensis</i>	Rodentia	Bathergidae	Mammal	124	1.43	27	31	Lovegrove, 1986
<i>Cynomys ludovicianus</i>	Rodentia	Sciuridae	Mammal	1112.3	8.49	30.2	35	Reinking <i>et al.</i> , 1977
<i>Cynopterus brachyotis</i>	Chiroptera	Pteropodidae	Mammal	37.4	0.95	30	37	McNab, 1989
<i>Dasyercus cristicauda</i>	Dasyuromorphia	Dasyuridae	Mammal	86	0.93	30	37	Kennedy & Macfarlane, 1971
<i>Diphylia ecaudata</i>	Chiroptera	Phyllostomidae	Mammal	27.8	0.68	26	30	McNab, 1969
<i>Dipodomys microps</i>	Rodentia	Heteromyidae	Mammal	57.2	1.34	27	32	Breyen <i>et al.</i> , 1973
<i>Elephantulus edwardii</i>	Rodentia	Macroscelididae	Mammal	49.8	1.09	32.5	36	Leon <i>et al.</i> , 1983
<i>Erinaceus concolor</i>	Erinaceomorpha	Erinacidae	Mammal	822.7	6.97	27.5	31.5	Krol, 1994
<i>Georchus capensis</i>	Rodentia	Bathergidae	Mammal	192.6	2.26	26.3	34	Lovegrove, 1987
<i>Gerbillurus paeba</i>	Rodentia	Muridae	Mammal	33.9	0.7	32.3	35.1	Buffenstein, 1984
<i>Gerbillurus setzeri</i>	Rodentia	Muridae	Mammal	46.1	0.74	32.2	34.8	Dempster <i>et al.</i> , 1998
<i>Gerbillurus tytonis</i>	Rodentia	Muridae	Mammal	29.9	0.64	32.4	34.9	Downs & Perrin, 1990
<i>Gerbillurus vullinus</i>	Rodentia	Muridae	Mammal	38.8	0.7	33.1	35	Dempster <i>et al.</i> , 1999
<i>Gerbillus pusillus</i>	Rodentia	Muridae	Mammal	12.6	0.27	31.4	38	Buffenstein & Jarvis, 1985
<i>Glossophaga soricina</i>	Chiroptera	Phyllostomidae	Mammal	9.6	0.43	31.4	35.2	Cruz-Neto & Abe, 1997
<i>Hystrix africaeaustralis</i>	Rodentia	Hystriidae	Mammal	10700	40.82	24	27	Haim <i>et al.</i> , 1990
<i>Jaculus jaculus</i>	Rodentia	Dipodidae	Mammal	74.5	1.85	33	35	Hooper & Hilali, 1972
<i>Jaculus orientalis</i>	Rodentia	Dipodidae	Mammal	139.1	2.79	28	33	Hooper & Hilali, 1972
<i>Lagorchestes conspicillatus</i>	Diprutosodontia	Macropodidae	Mammal	2660	17.09	25	35	Dawson & Bennet, 1978
<i>Lasiurhinus latifrons</i>	Diprutosodontia	Vombatidae	Mammal	25000	50.2	25	39	Wells, 1978
<i>Lasiurus cinereus</i>	Chiroptera	Vespertilionidae	Mammal	27.5	0.33	30	34	Cryan & Wolf, 2003
<i>Lepus alleni</i>	Lagomorpha	Leporidae	Mammal	3362	30.45	25	35	Dawson & Schmidt-Nielsen, 1966
<i>Macrodema gigas</i>	Chiroptera	Megadermatidae	Mammal	107	1.89	30	35	Baudinette <i>et al.</i> , 2000; Leitner & Nelson, 1966
<i>Macrotis lagotis</i>	Peramelemorpha	Thylacomyidae	Mammal	1011	7.11	27	35	Kinnear & Shield, 1975
<i>Megadontomys thomasi</i>	Rodentia	Cricetidae	Mammal	111	2.49	28	35	Buffenstein & Jarvis, 1985
<i>Microtus californicus</i>	Rodentia	Cricetidae	Mammal	11.7	1.37	33	40	Bell <i>et al.</i> , 1986
<i>Microtus longicaudus</i>	Rodentia	Cricetidae	Mammal	26.9	1.25	26.5	33.5	Bell <i>et al.</i> , 1986
<i>Miniapterus schreibersii</i>	Chiroptera	Vespertilionidae	Mammal	10.91	0.52	32.5	37.5	Baudinette <i>et al.</i> , 2000
<i>Mystromys albicaudatus</i>	Rodentia	Muridae	Mammal	93.78	2.54	20	30	Downs & Perrin, 1995
<i>Nasua nasua</i>	Carnivora	Procyonidae	Mammal	4000	20.08	25	33	Mugaas <i>et al.</i> , 1993
<i>Neotoma lepida</i>	Rodentia	Cricetidae	Mammal	106	2	31	35	Nelson & Yousaf, 1979
<i>Noctilio leporinus</i>	Chiroptera	Noctilionidae	Mammal	61	0.94	28	38	McNab, 1969
<i>Notomys alexis</i>	Rodentia	Muridae	Mammal	32.3	0.84	32	34	MacMillen & Lee, 1970
<i>Notomys cervinus</i>	Rodentia	Muridae	Mammal	34.2	0.9	33	34	MacMillen & Lee, 1970
<i>Nycticebus coucang</i>	Primates	Lorisidae	Mammal	1300	6.27	25	33	Muller, 1979
<i>Onychomys torridus</i>	Rodentia	Cricetidae	Mammal	19.1	0.78	30	35	Whitford & Conley, 1971
<i>Otomys irroratus</i>	Rodentia	Muridae	Mammal	111.6	1.86	24	28	Haim & Fairall, 1987
<i>Pecari tajacu</i>	Artiodactyla	Tayassuidae	Mammal	20000	116.82	28	35	Zervanos, 1975
<i>Peromyscus californicus</i>	Rodentia	Cricetidae	Mammal	49.6	1.17	27	34.5	McNab & Morrison, 1963
<i>Peromyscus crinitus</i>	Rodentia	Cricetidae	Mammal	20.9	0.62	29	35	McNab & Morrison, 1963
<i>Peromyscus truei</i>	Rodentia	Cricetidae	Mammal	33	1.25	27	33	McNab & Morrison, 1963
<i>Petaurides volans</i>	Diprutosodontia	Pseudocheiridae	Mammal	1141	11.45	18	25	Rübsamen <i>et al.</i> , 1984
<i>Petaurus breviceps</i>	Diprutosodontia	Petauridae	Mammal	128.1	1.78	27	31	Fleming, 1980; Dawson & Hulbert, 1970
<i>Phascolarctos cinereus</i>	Diprutosodontia	Phascolarctidae	Mammal	4765	21.05	20	26	Degabriele & Dawson, 1979
<i>Phyllostomus discolor</i>	Chiroptera	Phyllostomidae	Mammal	33.5	0.69	25	37	McNab, 1969
<i>Phyllostomus hastatus</i>	Chiroptera	Phyllostomidae	Mammal	84.2	1.42	25	35	McNab, 1969
<i>Phyllotis darwini</i>	Rodentia	Cricetidae	Mammal	59	1.43	27.5	34	Bozinovic & Rosenmann, 1988
<i>Potos flavus</i>	Carnivora	Procyonidae	Mammal	2400	15.23	23	30	Muller <i>et al.</i> , 1983
<i>Procyon capensis</i>	Hyracoidea	Hyracoidea	Mammal	2400	13.01	27	35	Rübsamen <i>et al.</i> , 1979
<i>Pseudocheirus peregrinus</i>	Diprutosodontia	Pseudocheiridae	Mammal	872	5.7	25	32.5	Kinnear & Shield, 1975
<i>Pteronotus quadridens</i>	Chiroptera	Mormoopidae	Mammal	4.9	0.12	30	38	Rodriguez-Duran, 1995
<i>Pteropus scapulatus</i>	Chiroptera	Pteropodidae	Mammal	440	4.87	24	35	Bartholomew <i>et al.</i> , 1964
<i>Rattus villosissimus</i>	Rodentia	Muridae	Mammal	250.6	2.92	30	35	Collins & Brdshaw, 1973
<i>Setonix brachyurus</i>	Diprutosodontia	Macropodidae	Mammal	2674	16.13	20	32.5	Kinnear & Shield, 1975
<i>Spermophilus beecheyi</i>	Rodentia	Sciuridae	Mammal	599.6	6.38	25	30	Baudinette, 1972
<i>Spilogale putorius</i>	Carnivora	Mephitidae	Mammal	624	5.89	30	36	Knudsen & Kilgore, 1990
<i>Sturnira erythromos</i>	Chiroptera	Phyllostomidae	Mammal	15.9	0.8	25.5	32.5	Soriano <i>et al.</i> , 2002
<i>Suricata suricatta</i>	Carnivora	Herpestidae	Mammal	850	6.32	30	33	Muller & Lojewski, 1986
<i>Sylvilagus audubonii</i>	Lagomorpha	Leporidae	Mammal	672.4	8.79	28	40	Hinds, 1973
<i>Tamias minimus</i>	Rodentia	Sciuridae	Mammal	50.6	1.54	26	34	Willems & Armitage, 1975
<i>Tamias striatus</i>	Rodentia	Sciuridae	Mammal	92.2	1.81	28.5	32	Wang & Hudson, 1971
<i>Thallomys paedulus</i>	Rodentia	Muridae	Mammal	124.7	1.38	27.46	35.89	Lovegrove <i>et al.</i> , 1991
<i>Thomomys bottae</i>	Rodentia	Geomyidae	Mammal	143	2.41	28	30	Vleck, 1979
<i>Thomomys talpoides</i>	Rodentia	Geomyidae	Mammal	106	2.19	26	32	Bradley <i>et al.</i> , 1974
<i>Thomomys umbrinus</i>	Rodentia	Geomyidae	Mammal	85	1.45	27	35	Bradley <i>et al.</i> , 1974
<i>Thylamys elegans</i>	Didelphimorpha	Didelphidae	Mammal	40.2	0.86	27.5	35	Bozinovic <i>et al.</i> , 2005
<i>Tragulus javanicus</i>	Artiodactyla	Tragulidae	Mammal	1618	17.59	26.6	29	Whitow <i>et al.</i> , 1977
<i>Tupaia belangeri</i>	Scandentia	Tupaidae	Mammal	186	2.54	27.5	35	Zhang <i>et al.</i> , 2012
<i>Vulpes macrotis</i>	Carnivora	Canidae	Mammal	1868	18.83	22	33	Golightly & Omhart, 1983
<i>Vulpes zerda</i>	Carnivora	Canidae	Mammal	1106	8	23.4	32	Noll-Banholzer, 1979
<i>Aegolius acadicus</i>	Strigiformes	Strigidae	Bird	118.1	2.45	21	33	Ligon, 1969
<i>Alaemon alaudipes</i>	Passeriformes	Alaudidae	Bird	37.7	1.54	32.7	37.5	Tieleman & Williams, 2002
<i>Alectoris chukar</i>	Galliformes	Phasianidae	Bird	475	7.06	24	39	Marder & Bernstein, 1983
<i>Amphispiza belli</i>	Passeriformes	Emberizidae	Bird	18.6	1.29	28	37	Moldenhauer, 1970
<i>Athene cunicularia</i>	Passeriformes	Strigidae	Bird	146.7	2.8	25	37	Coulombe, 1970
<i>Bubo virginianus</i>	Strigiformes	Strigidae	Bird	1000	15.62	20.3	32.2	Ganey <i>et al.</i> , 1993

<i>Cacatua roseicapilla</i>	Psittaciformes	Cacatuidae	Bird	271	5.04	22	33	Dawson & Fisher, 1982
<i>Callipepla gambelii</i>	Galliformes	Odontophoridae	Bird	125.5	2.72	34	42	Weathers, 1981
<i>Caprimulgus vociferus</i>	Caprimulgiformes	Caprimulgidae	Bird	46	1.17	25	37	Lane <i>et al.</i> , 2004
<i>Cardinalis cardinalis</i>	Passeriformes	Cardinalidae	Bird	41	1.81	29	42.6	Hinds & Calder, 1973
<i>Cardinalis sinuatus</i>	Passeriformes	Cardinalidae	Bird	32	1.41	30	42.8	Hinds & Calder, 1973
<i>Carpodacus cassinii</i>	Passeriformes	Fringillidae	Bird	27.4	1.22	22	37	Weather <i>et al.</i> , 1980
<i>Carpodacus purpureus</i>	Passeriformes	Fringillidae	Bird	34	3.06	25	35	Salt, 1952
<i>Chordeiles minor</i>	Caprimulgiformes	Caprimulgidae	Bird	72	1.59	30	39	Lasiewski <i>et al.</i> , 1970; Lasiewski & Dawson, 1964
<i>Collocalia esculenta</i>	Apodiformes	Apodidae	Bird	6.8	0.29	31.5	34	McNab & Bonaccorso, 1995
<i>Collocalia vanikorensis</i>	Apodiformes	Apodidae	Bird	11.6	0.43	30	34	McNab & Bonaccorso, 1995
<i>Columba livia</i>	Columbiformes	Columbidae	Bird	467	5.18	23	36.5	Calder & Schmidt-Nielsen, 1967
<i>Coturnix coturnix</i>	Galliformes	Phasianidae	Bird	97	3.21	16	34	Weathers, 1981; Hänßler, 1978
<i>Coturnix japonica</i>	Galliformes	Phasianidae	Bird	166	5.35	23	36	Ben-Hamo <i>et al.</i> , 2010
<i>Ducula zoeae</i>	Columbiformes	Columbidae	Bird	456.2	6.13	19	32	McNab, 2000
<i>Emberiza chrysophrys</i>	Passeriformes	Emberizidae	Bird	15.94	1.16	25	30	Jin-Song <i>et al.</i> , 2005
<i>Emberiza pusilla</i>	Passeriformes	Emberizidae	Bird	11.3	0.946	20	25	Jin-Song <i>et al.</i> , 2001
<i>Emberiza rutila</i>	Passeriformes	Emberizidae	Bird	15.3	1.22	25	32.5	Jin-Song <i>et al.</i> , 2001
<i>Emberiza spodocephala</i>	Passeriformes	Emberizidae	Bird	15.1	1.43	20	26	Ming <i>et al.</i> , 2005
<i>Eremalauda dunnii</i>	Passeriformes	Alaudidae	Bird	20.6	1	31.5	41	Tieleman & Williams, 2002
<i>Eremophila alpestris</i>	Passeriformes	Alaudidae	Bird	26	1.185	26	35	Trost, 1972
<i>Eurostopodus argus</i>	Caprimulgiformes	Caprimulgidae	Bird	88	1.47	32	47	Dawson & Fisher, 1969
<i>Fringilla montifringilla</i>	Passeriformes	Fringillidae	Bird	21	1.38	25	30	Jin-Song <i>et al.</i> , 2004
<i>Fulica atra</i>	Gruiformes	Rallidae	Bird	387	8.47	20	34	Brent <i>et al.</i> , 1985
<i>Geophaps plumifera</i>	Columbiformes	Columbidae	Bird	89	1.52	33	39	Dawson & Bennett, 1973
<i>Hemiphaga novaeseelandiae</i>	Columbiformes	Columbidae	Bird	435.6	6.78	20	30	McNab, 2000
<i>Icterus bullockii</i>	Passeriformes	Icteridae	Bird	34	1.81	27	35	Rising, 1969
<i>Icterus galbula</i>	Passeriformes	Icteridae	Bird	34	1.81	27	35	Rising, 1969
<i>Lagopus leucura</i>	Galliformes	Phasianidae	Bird	326	8.5	6	38	Johnson, 1968
<i>Lanius excubitor</i>	Passeriformes	Laniidae	Bird	60	1.94	30	36	Ward & Pinshow, 1995; Degen <i>et al.</i> , 1992
<i>Leipoa ocellata</i>	Galliformes	Megapodiidae	Bird	1390	14.46	22	37	Booth, 1989
<i>Lonchura fuscans</i>	Passeriformes	Estrildidae	Bird	9.5	0.36	30	39	Weathers, 1977
<i>Malurus cyaneus</i>	Passeriformes	Maluridae	Bird	8.2	0.52	26	35	Lill <i>et al.</i> , 2006
<i>Megascops asio</i>	Strigiformes	Strigidae	Bird	141.5	1.78	26	34	Ligon, 1969
<i>Melopsittacus undulatus</i>	Psittaciformes	Psittacidae	Bird	33.7	1.33	29	41	Weathers & Schoenbaechler, 1976
<i>Micrathene whitneyi</i>	Strigiformes	Strigidae	Bird	45	0.91	30	38	Ligon, 1968
<i>Mirafra erythrocephala</i>	Passeriformes	Alaudidae	Bird	27.3	1.5	27.9	35.1	Williams, 1999
<i>Myiopsitta monachus</i>	Psittaciformes	Psittacidae	Bird	80.4	1.89	24.5	38.5	Weathers & Caccamise, 1975
<i>Passer domesticus</i>	Passeriformes	Passeridae	Bird	23	1.32	20	35	Hudson & Kimzey, 1966
<i>Pica nuttalli</i>	Passeriformes	Corvidae	Bird	151.9	5.28	13.5	33.5	Hayworth <i>et al.</i> , 1984
<i>Pica pica</i>	Passeriformes	Corvidae	Bird	158.9	4.31	21	32.5	Hayworth <i>et al.</i> , 1984
<i>Pterocles alchata</i>	Pterocliiformes	Pteroclididae	Bird	242	3.38	28.6	32.1	Hinsley <i>et al.</i> , 1993
<i>Pterocles orientalis</i>	Pterocliiformes	Pteroclididae	Bird	386.4	7.01	27.7	35.9	Hinsley <i>et al.</i> , 1993
<i>Sterna fuscata</i>	Charadriiformes	Sternidae	Bird	176.75	2.88	20	35	MacMillen <i>et al.</i> , 1977; Flint & Nagy, 1984
<i>Strix occidentalis</i>	Strigiformes	Strigidae	Bird	571	9.63	17	25.2	Ganey <i>et al.</i> , 1993
<i>Syrnaticus ellioti</i>	Galliformes	Phasianidae	Bird	388.25	10.56	24.5	31.6	Ying <i>et al.</i> , 2011
<i>Syrnaticus humiae</i>	Galliformes	Phasianidae	Bird	398.83	16.19	23	29.2	Ying <i>et al.</i> , 2011
<i>Tadorna variegata</i>	Anseriformes	Anatidae	Bird	1193.6	12.04	22	33	McNab, 2003
<i>Thinocorus rumicivorus</i>	Charadriiformes	Thinocoridae	Bird	55.5	1.12	33	38	Ehlers & Morton, 1982
<i>Todus mexicanus</i>	Coraciiformes	Todidae	Bird	6.3	0.41	29	32	Merola-Zwartjes, 2000
<i>Tyto alba</i>	Strigiformes	Tytonidae	Bird	533.2	6.46	22.5	32.5	Edwards, 1987
<i>Zenaida macroura</i>	Columbiformes	Columbidae	Bird	91.4	2.33	30	37.5	Hudson & Brush, 1964
<i>Zosterops erythropleurus</i>	Passeriformes	Zosteropidae	Bird	9.16	0.85	25	27.5	Jin-Song <i>et al.</i> , 2005