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| **Reference** | | **Reason for Leaving Paper** |
| **Metabolic rate** | | |
| doi-10.1111/j.1365-3032.2000.00197.x | (Bosch, Chown, & Scholtz, 2000) | No respiratory quotient provided |
| doi-10.1038/135434d0 | (Gunn, 1935) | No respiratory quotient provided |
| doi-10.1242/jeb.00603 | (Steven L. Chown & Davis, 2003) | No respiratory quotient provided |
| doi-10.1016/j.jinsphys.2005.03.007 | (Klok & Chown, 2005) | No respiratory quotient provided |
| doi-10.1046/j.1365-3032.2002.00266.x | (Duncan, Krasnov, & McMaster, 2002) | No respiratory quotient provided |
|  | (J. R. B. Lighton, 1991) | No respiratory quotient provided |
| doi-10.1046/j.1365-3032.1999.00140.x | (Quinlan & Lighton, 1999) | No respiratory quotient provided |
|  | (J Lighton & Berrigan, 1995) | No respiratory quotient provided |
| doi-10.1603/0046-225X-30.5.811 | (Acar, Smith, Hansen, & Booth, 2001) | Data in figures |
|  | (Buck & Keister, 1949) | Data in figures |
|  | (Mark A Chappell & Rogowitz, 2000) | Metabolic rate and mass do not align |
| doi-10.1006/jare.1993.1015 | (Cooper, 1993) | Results not clear |
| doi-10.1016/S0022-1910(99)00141-9 | (Davis, Chown, McGeoch, & Scholtz, 2000) | Specific mass for each metabolic rate measurement not provided |
| doi-10.1007/bf00694445 | (Morgan, Shelly, & Kimsey, 1985) | Data in figures |
| doi-10.1007/s003000050108 | (S. L. Chown, 1997) | Mass data not provided |
| doi-10.1016/0022-1910(64)90087-3 | (Tombes, 1964) | Data in figures |
| doi-10.1016/0022-1910(66)90144-2 | (Rajagopal & Bursell, 1966) | Data presented in table, column labels are not clear |
| doi-10.1016/0022-1910(91)90065-8 | (Martin, 1991) | Results not clear |
| doi-10.1016/0300-9629(73)90111-4 | (Ettershank & Whitford, 1973) | Data in figures |
| doi-10.1016/j.cbpb.2003.11.012 | (Fielden, Krasnov, Khokhlova, & Arakelyan, 2004) | Data in figures |
| doi-10.1016/S1095-6433(03)00115-6 | (Montooth & Gibbs, 2003) | Data in figures |
| doi-10.1046/j.1570-7458.1999.00550.x | (Beekman & van Stratum, 1999) | Study only uses queen bees |
| doi-10.1111/j.0013-8703.2004.00134.x | (Sibul, Kuusik, & Voolma, 2004) | Mass is the mean of all individuals but metabolic rate is broken down into smaller groups |
| doi-10.1111/j.1365-3032.1990.tb00534.x | (Baroni-Urbani & Nielsen, 1990) | Results not clear |
| doi-10.1139/z76-088 | (Campbell, Singh, & Sinha, 1976) | Metabolic data not clear |
| doi-10.2307/2389566 | (JRB Lighton, 1989) | Data in figures |
| doi-10.4039-Ent109687-5 | (Bailey & Singh, 1977) | Data in figures |
| doi-10.1139/z58-031 | (Edwards, 1958) | Number of individuals sampled not presented |
| doi-10.1016/0022-1910(85)90024-1 | (Gehrken, 1985) | Data in figures |
| doi-10.1139/z51-004 | (G. Harvey & Brown, 1951) | Data in figures |
| doi-10.2307/3543722 | (Hinton, 1971) | Results reported as log values in text, raw data in figures |
| doi-10.1111/j.1365-3032.1997.tb01178.x | (Holter & Spangenberg, 1997) | Metabolic rate in figures |
| doi-10.1046/j.1365-3032.1999.00106.x | (Jeeva, Bignell, Eggleton, & Maryati, 1999) | Number of individuals sampled not presented for all measurements |
|  | (Kavanagh, 1987) | Mass of individuals not provided |
| doi-10.1017/S0007485300005708 | (Loveridge & Bursell, 1975) | Data in figures |
| doi-10.1242/jeb.00700 | (Marais & Chown, 2003) | No respiratory quotient |
| doi-10.1016/0300-9629(83)90719-3 | (Massion, 1983) | Data in figures |
| doi-10.1017/S1742758400010572 | (McComie & Dhanarajan, 1990) | Data are calculated estimates |
|  | (Morgan, 1987) | Data in figures |
| doi-10.2307/3544483 | (Mac Nally & Doolan, 1982) | Mass data and metabolic rate data do not correlate |
| doi-10.1007/bf00239158 | (Sømme, Ring, Block, & Worland, 1989) | Raw data in figures |
| doi-10.1111/j.1751-8369.1986.tb00531.x | (Strømme, Ngari, & Zachariassen, 1986) | Results table unclear |
| doi-10.1016/0300-9629(89)90154-0 | (Booth, 1989) | Data in figure |
| doi-10.1007/bf00687467 | (Bucher, 1985) | Temperature for specific metabolic rate no presented |
| doi-10.1016/0300-9629(71)90082-X | (Yarbrough, 1971) | Metabolic rate presented as an average of recordings at 3 different temperatures |
| doi-10.1152/ajplegacy.1932.101.2.260 | (Riddle, Smith, & Benedict, 1932) | Data needs to be combined and average – too many varying factors (season, breeding, age etc.) |
| doi-10.1152/ajplegacy.1967.213.4.883 | (Calder & Schmidt-Nielsen, 1967) | Data in figures |
| doi-10.2307/1366623 | (Bartholomew & Trost, 1970) | Data in figures |
| doi-10.2307/1368498 | (Withers, Forbes, & Hedrick, 1987) | Data in figures |
| doi-10.2307/1550225 | (Gessaman, 1972) | Data in figures |
| doi-10.5253/arde.v72.p | (Wijnandts, 1984) | Specific ambient temperatures for metabolic rates only in figures |
|  | (Ganey, Balda, & King, 1993) | Data in figures |
|  | (Rasmussen & Brander, 1973) | Data in figures |
| doi-10.2307/3676282 | (Johnson & West, 1975) | Data in figures |
| doi-10.5253/arde.v75.p175 | (Kersten & Piersma, 1987) | Ambient temperature at time of metabolic rate collection not present |
| doi-10.1071/ZO9770193 | (Weathers, 1977) | Temperature of metabolic rate only in the figure |
| doi-10.1139/z75-007 | (Johnson & Cowan, 1975) | Data separated for different months of the year |
| doi-10.2307/1366730 | (Rising, 1969; Rising & Hudson, 1974) | Data in figures |
| doi-10.2307/1367113 | (Wunder & Trebella, 1976) | Data in figures |
| doi-10.2307/1367336 | (Hayworth & Weathers, 1984) | No ambient temperature provided for mean metabolic rate |
| doi-10.2307/1939301 | (Williams et al., 1993) | No ambient temperature provided for mean metabolic rate |
| doi-10.2307/1369441 | (W. R. Dawson & Carey, 1976; Maloney & Dawson, 1993) | Data split between summer and winter |
| doi-10.1071/ZO05029 | (Lill, Box, & Baldwin, 2006) | Data compared between months not averaged |
|  | (Schmidt-Nielsen, Crawford Jr, Newsome, Rawson, & Hammel, 1967) | Ambient temperature not recorded |
| doi-10.1016/0010-406X(69)91651-X | (Brian K McNab, 1969) | Ambient temperature not recorded for specific metabolic rates |
| doi-10.1139/z59-052 | (Hart, Irving, & Mackenzie, 1959) | Data broken up into seasons |
| doi-10.1007/bf00697754 | (Iversen, 1972) | Data in figure |
| doi-10.1007/bf00692726 | (Geiser, 1988b) | Ambient temperature not provided |
| doi-10.1007/bf00697754 | (Iversen, 1972) | Data in figure |
| doi-10.1007/s003600000163 | (B.K. McNab & Bonaccorso, 2001) | Ambient temperature not present for each metabolic rate |
| doi-10.1016/0010-406X(67)90601-9 | (Licht & Leitner, 1967) | Data in figure |
| doi-10.1016/0300-9629(75)90027-4 | (Zervanos, 1975) | Metabolic rate slipt into summer and winter |
| doi-10.1016/0300-9629(94)00174-R | (Rodríguez-Durán, 1995) | Metabolic rate averaged from recordings of ambient temperatures from 15-42 |
| doi-10.1086/316715 | (McLean & Speakman, 2000) | Measurements split between reproductive and non-reproductive females. Data in figures |
| doi-10.1111/j.1469-7998.1994.tb01573.x | (Stephenson & Racey, 1994) | Measurements are seasonal |
| doi-10.1111/j.1469-7998.1997.tb05741.x | (Kruuk, Taylor, & Mom, 1997) | Metabolic rate not presented |
| doi-10.1139/z86-052 | (Renecker & Hudson, 1986) | Measurements are seasonal |
| doi-10.1139/z92-186 | (Pyörnilä, Putaala, Hissa, & Sulkava, 1992) | Measurements are seasonal |
| doi-10.2307/3800985 | (Demarais, Fuquay, & Jacobson, 1986) | Doesn’t focus on metabolic rates |
|  | (Kotiaho, 1998) | No rq |
| doi-10.1016/0300-9629(75)90044-4 | (Willems & Armitage, 1975) | Data in figure |
| doi-10.1016/0300-9629(79)90008-2 | (Brian K McNab, 1979) | Can’t read the temperature in the table |
| doi-10.1016/0300-9629(85)90904-1 | (Hayssen & Lacy, 1985) | Groups taxons, not species |
| doi-10.1016/0300-9629(87)90615-3 | (Weiner & Heldmaier, 1987) | Observations are split between seasons |
| doi-10.1016/0306-4565(91)90026-X | (LoveGRovE, Heldmaier, & Knight, 1991) | Observations are split between seasons and day and night |
| doi-10.1016/S0010-406X(75)80225-8 | (Hildwein & Goffart, 1975) | Open and closed circuits used for measurements? |
| doi-10.1016/0022-1910(93)90091-5 | (Argyropoulou & Stamou, 1993) | Data in figures |
| Benedict & Fox, 1927 | (Benedict & Fox, 1927) | Data points are magnitudes out – error in publication |
| doi-10.1007/978-1-4684-4859-7\_8 | (Simons & Whittow, 1984) | Don’t have access to the whole document |
| doi:10.1007/bf00692302 | (W. R. Dawson & Carey, 1976) | Measurements are seasonal |
| doi-10.1016:0010-406X(69)91801-5 | (Rising, 1969) | No mass measurement |
| doi-10.1016/0010-406X(70)90042-3 | (R Hissa & Palokangas, 1970) | Data in figures |
| doi-10.1016/0300-9629(81)90157-2 | (Prinzinger, Göppel, Lorenz, & Kulzer, 1981) | Data in figures and potentially to many variables |
| doi-10.1016/0300-9629(81)90328-5 | (Shapiro & Weathers, 1981) | Too many manipulating variables effecting results |
| doi-10.1016/0300-9629(83)90086-5 | (Ricklefs & Roby, 1983) | Reports on developmental stages |
| doi-10.1016/0300-9629(92)90190-2 | (Hinsley, 1992) | Weight used no specified |
| doi-10.1007/bf00689414 | (Ruben, 1976) | Data in figure |
| doi-10.1007/bf00691052 | (Bennett, Dawson, & Bartholomew, 1975) | No ambient temperature |
| doi-10.1007/bf00692367 | (Mark A. Chappell & Ellis, 1987) | No raw metabolic data, only regression calculations |
| doi-10.1086/physzool.56.1.30159973 | (Prestwich, 1983) | Metabolic rate in active or recovery, rather than at rest |
| T. J. Dawson & Dawson, 1982 | (T. J. Dawson & Dawson, 1982) | Metabolic rate unit in W/kg^-0.75 |
| doi-10.1007/bf00262873 | (McDevitt & Speakman, 1996) | Measurements are seasonal |
| doi-10.1007/bf00378050 | (Geiser, 1988a) | Measurements are seasonal |
| doi-10.1007/bf00782603 | (Weiner & Górecki, 1981) | Data in figure |
| doi-10.1007/bf01900086 | (R. Hissa, 1970) | Data in figure |
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| **Brain size** | | |
| doi-10.1371/journal.pone.0018277 | (Amiel, Tingley, & Shine, 2011) |  |
|  | (Eberhard & Wcislo, 2011) |  |
| doi-10.1006/anbe.1996.0330 | (Lefebvre, Whittle, Lascaris, & Finkelstein, 1997) | Only has forebrain size not total brain size |
| doi-10.1159/000351996 | (Northcutt, 2013) | Weights of different parts of the brain not total weight |
| doi-10.1111/evo.12784 | (Kotrschal, Corral-Lopez, Szidat, & Kolm, 2015) | Guppies |
|  | (Helluy, Ruchhoeft, & Beltz, 1995) | Data in figures |
|  | (Connor & Mann, 2006) | Contains a large data set – some raw data from references has been collected, all other raw data sources could not be found. |
| doi-10.1159/000097057 | (Wehner, Fukushi, & Isler, 2007) | Data in figures |
|  | (Burns & Rodd, 2008) | Study on guppies |
| doi-10.1126/science.7313697 | (Nottebohm, 1981) | Data in figures |
| doi-10.1098/rsbl.2006.0538 | (Isler & van Schaik, 2006) | Supplementary material not available |
| doi-10.1073/pnas.77.7.4387 | (P. H. Harvey, Clutton-Brock, & Mace, 1980) | Data in figures |
| doi-10.1139/z01-204 | (Iwaniuk & Nelson, 2002) | Large data set and references stated at the bottom, but which data belongs to which reference is not mentioned |
| doi-10.1007/bf00312185 | (K. Sasira Babu & Barth, 1984) | No total brain size, only reports different parts of the brain |
| doi-10.1002/jmor.1051460303 | (Sasira, 1975) | No total brain size |
|  | (B Hanström, 1935) | Wrong language |
| doi-10.1111/1748-5967.12102 | (Sung-Chan & Myung-Jin, 2015) | No total brain size |
| doi-10.1111/1748-5967.12039 | (Yong-Ki, Hyo-Jeong, Hoon, & Myung-Jin, 2013) | No total brain size |
|  | (Hill, 1975) | No total brain size |
| doi-10.1093/icb/9.1.121 | (Witt, 1969) | No total brain size |
| doi-10.1111/j.1748-5967.2012.00475.x | (Myung-Jin & K., 2013) | Brain cell size not total brain |
| doi-10.1016/j.cub.2014.09.029 | (Menda, Shamble, Nitzany, Golden, & Hoy, 2014) | No total brain size |
| doi-10.1016/j.cub.2007.05.069 | (Byrne & Bates, 2007) | No total brain size |
| doi-10.1016/j.cub.2009.08.023 | (Chittka & Niven, 2009) | Not original data |
| doi-10.1073/pnas.1505913113 | (Benson-Amram, Dantzer, Stricker, Swanson, & Holekamp, 2016) | Data log transformed |
| doi-10.1086/204350 | (Aiello & Wheele, 1995) | Not original data |
| doi-10.1111/evo.12556 | (Tsuboi et al., 2015) | Brain data in graphs |
| doi-10.1098/rspb.2005.3283 | (Shultz & Dunbar, 2006) | Apparent large data source but cannot access supplementary material |
| doi-10.1186/s12862-014-0178-z | (Yu, Karbowski, Sachdev, & Feng, 2014) | Data in graphs |
| doi-10.3389/fpsyg.2013.00396 | (Willemet, 2013) | Data in graphs |
|  | (Miyazaki, Fujiyama, & Fujise, 1981) | Data in graphs (log values) |
| doi-10.1139/z01-204 | (Iwaniuk & Nelson, 2003) | Data in graph (log values) |
| doi-10.1007/s10519-014-9646-x | (Bouchard, 2014) | No raw data – lots of references |
| doi-10.1002/jmor.1051460303 | (Sasira, 1975) | No total brain/CNS volume |
| Hill, 1975 | (Hill, 1975) | No total brain size |
| Babu, 1965 | (K Sasira Babu, 1965) | Could not locate total brain volume |
| doi-10.1002/cne.900350402 | (Bertil Hanström, 1923) | Reports on cephalothorax size but not brain |
| doi-10.1002/cne.903280105 | (Nicholas J. Strausfeld, Weltzien, & Barth, 1993) | No total brain data |
| doi-10.1101/lm.5.1.11 | (Nicholas J Strausfeld, Hansen, Li, Gomez, & Ito, 1998) | Mushroom bodies |
| doi-10.1111/jzo.12512 | (Steinhoff, Liedtke, Sombke, Schneider, & Uhl, 2018) | No total brain size |
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