# Table from Supplementary Information for Phylogenetically controlled life history trait meta-analysis in cetaceans reveals unexpected negative brain size and longevity correlation

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**Table S3.** References from which trait values were obtained, by species and overarching trait. Refer to Tables 1 and S1 for trait definitions.

| Species | Lifespan | Length | Mass | BrainMass | EQ | Fem1stReprod | Male1stReprod | YearsOffspring |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Balaena mysticetus* |  [1,2] |  [3] |  [4] | N/A |  [5] |  [4,6,7] |  [4,6,7] |  [4,7–9] |
| *Eubalaena australis* |  [4] |  [10,11] |  [4] |  [12] | N/A |  [4,13,14] | N/A | N/A |
| *Eubalaena glacialis* |  [4] |  [12] |  [4] |  [12] | N/A |  [4,14,15] |  [4] |  [15] |
| *Eubalaena japonica* |  [1,2] | N/A |  [16] | N/A | N/A | N/A | N/A | N/A |
| *Balaenoptera acutorostrata* |  [4] |  [3] |  [4] | N/A | N/A |  [4,8,17] |  [8] |  [4,8] |
| *Balaenoptera bonaerensis* |  [1,2] |  [3] |  [4,18] | N/A | N/A |  [11] |  [11] |  [8] |
| *Balaenoptera borealis* |  [4] |  [12] |  [4] |  [12] | N/A | N/A |  [4,8] |  [4,8] |
| *Balaenoptera edeni* |  [1,2] |  [19] |  [4,19] | N/A | N/A |  [4,8] |  [4,8] |  [8,11] |
| *Balaenoptera musculus* |  [1,2] |  [20] |  [4] |  [21] | N/A |  [4,8,11] |  [4,8] |  [4,8,22] |
| *Balaenoptera physalus* |  [1,2] | N/A |  [4] |  [12,23] |  [23,24] |  [4,8,11] |  [4,8,11] |  [4,8,22] |
| *Megaptera novaeangliae* |  [1,2] |  [11,25] |  [4,26] | N/A |  [24] |  [4,13,27] |  [4,8] |  [4,8] |
| *Cephalorhynchus commersonii* | N/A |  [12] |  [4,14] |  [12,23] |  [23] |  [4,14] |  [4] | N/A |
| *Cephalorhynchus heavisidii* | N/A | N/A |  [28] | N/A | N/A | N/A | N/A | N/A |
| *Cephalorhynchus hectori* |  [29] |  [11] |  [4,30] |  [31] | N/A |  [4] |  [4] | N/A |
| *Delphinus delphis* | N/A |  [12] |  [4,26] |  [12,23] |  [23,24] |  [4,26,27] |  [4,27] | N/A |
| *Delphinus capensis* | N/A | N/A |  [32] | N/A | N/A | N/A | N/A | N/A |
| *Feresa attenuata* | N/A |  [12] |  [12] |  [12] |  [24] | N/A | N/A | N/A |
| *Globicephala macrorhynchus* |  [4] |  [12] |  [4] |  [12] | N/A |  [4,8] |  [4,8] |  [4,8] |
| *Globicephala melas* |  [1,2] |  [12] |  [4,14,26] |  [12] | N/A |  [4,8,26,27] |  [4,8,27] |  [4,8] |
| *Grampus griseus* |  [4] |  [11,33] |  [4,33] |  [12,23] |  [23,24] | N/A | N/A | N/A |
| *Lagenodelphis hosei* | N/A | N/A |  [4] | N/A | N/A |  [4] | N/A | N/A |
| *Lagenorhynchus acutus* |  [4] |  [12] |  [4,26] |  [12,23] |  [23,24] |  [4,26] | N/A |  [4] |
| *Lagenorhynchus albirostris* | N/A |  [12] |  [14] |  [12] | N/A | N/A | N/A | N/A |
| *Lagenorhynchus australis* | N/A | N/A |  [28] | N/A | N/A | N/A | N/A | N/A |
| *Lagenorhynchus obliquidens* |  [1,2] |  [12] |  [4] |  [12,23] |  [23,24] |  [4] | N/A | N/A |
| *Lagenorhynchus obscurus* | N/A | N/A |  [14] | N/A | N/A |  [4] | N/A |  [14] |
| *Lissodelphis borealis* | N/A |  [12] |  [12] |  [12] | N/A | N/A | N/A | N/A |
| *Lissodelphis peronii* | N/A | N/A |  [28] | N/A | N/A | N/A | N/A | N/A |
| *Orcaella brevirostris* |  [4] | N/A |  [4] | N/A | N/A |  [4] |  [4] |  [4] |
| *Orcaella heinsohnii* | N/A | N/A |  [14] | N/A | N/A | N/A | N/A | N/A |
| *Orcinus orca* |  [4] |  [11,33] |  [4,33] |  [12,23] |  [23,24] |  [4,8,13,27] |  [4,8,13,27] |  [4,27] |
| *Peponocephala electra* |  [4] | N/A |  [4] |  [12] | N/A |  [4,34] | N/A |  [4,34] |
| *Pseudorca crassidens* |  [4] |  [12] |  [26] |  [12] | N/A |  [4,8,26,27] |  [4,8,27] |  [4,14,27] |
| *Sotalia fluviatilis* |  [35] |  [12] |  [4] |  [12] |  [24] |  [36,37] | N/A | N/A |
| *Sotalia guianensis* |  [38] | N/A |  [11] | N/A | N/A |  [39] |  [39] |  [39] |
| *Sousa chinensis* |  [1,2] | N/A |  [4] | N/A | N/A | N/A | N/A | N/A |
| *Sousa sahulensis* | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| *Stenella attenuata* |  [4] |  [12] |  [4,26] |  [12,23] | N/A |  [4,26,27] |  [4,27] |  [4,27] |
| *Stenella clymene* | N/A | N/A |  [28] |  [12] | N/A | N/A | N/A | N/A |
| *Stenella coeruleoalba* |  [4] |  [12] |  [4,26] |  [12] | N/A |  [4,8,26,27] |  [4,8,27] |  [4,8,27] |
| *Stenella frontalis* | N/A |  [23] | N/A | N/A | N/A |  [40] | N/A | N/A |
| *Stenella longirostris* | N/A |  [12] |  [4,26] |  [12,23] |  [24] |  [26,27] |  [27] |  [27] |
| *Steno bredanensis* |  [4] |  [12] |  [4,14] |  [12,23] |  [23,24] |  [4] | N/A | N/A |
| *Tursiops aduncus* |  [1,2] |  [11,41] |  [14] | N/A | N/A |  [41,42] | N/A |  [42] |
| *Tursiops truncatus* |  [4] |  [11,33] |  [4,26,33] |  [12,23] |  [23,24] |  [4,8,26,27] | N/A | N/A |
| *Eschrichtius robustus* |  [4] |  [11] |  [4,14,33] | N/A | N/A |  [4,8,14,26] |  [4,8,27] |  [4,8,27] |
| *Inia geoffrensis* |  [1,2] |  [43] |  [4,14,26] |  [12] | N/A | N/A | N/A | N/A |
| *Kogia breviceps* |  [1,2] |  [11,33] |  [4,14,33] |  [12] |  [23,24] |  [44] |  [44] |  [4,14,44] |
| *Kogia sima* | N/A |  [11,12] |  [14] |  [12] |  [24] |  [44] |  [44] |  [44] |
| *Lipotes vexillifer* |  [4] |  [11] |  [4] |  [12] |  [24] | N/A |  [11] | N/A |
| *Delphinapterus leucas* |  [4] |  [11,33] |  [4,26,33,45] |  [12,23] |  [23,24] |  [4,8,26] |  [4,8] |  [4,8] |
| *Monodon monoceros* |  [1,2] |  [12] |  [4,14] |  [12] |  [24] |  [4] |  [4] |  [4] |
| *Caperea marginata* | N/A | N/A |  [14] | N/A | N/A |  [8] |  [8] |  [8,14] |
| *Neophocaena phocaenoides* |  [4] |  [12] |  [4,26] |  [12] | N/A |  [4,14,26] |  [4] |  [4] |
| *Phocoena dioptrica* | N/A | N/A |  [28] | N/A | N/A | N/A | N/A | N/A |
| *Phocoena phocoena* |  [4] |  [12] |  [4,14,26] |  [12,23] |  [23,24] |  [4,8,26] |  [4,8] |  [4,8] |
| *Phocoena spinipinnis* | N/A | N/A |  [28] | N/A | N/A | N/A | N/A | N/A |
| *Physeter macrocephalus* |  [1,2] |  [11,33] |  [4,26] |  [12,23] |  [23,24] |  [4,8,26] |  [4,8] |  [4,8] |
| *Platanista gangetica* |  [1,2] |  [12] |  [4,26] |  [12] |  [24] |  [4,14,26] | N/A |  [14] |
| *Pontoporia blainvillei* |  [1,2] | N/A |  [4,14,26] |  [12,23] |  [23] |  [4,26] |  [4] |  [4] |
| *Berardius bairdii* |  [4] |  [12] |  [4,14,26] |  [12] | N/A |  [4,14,26] |  [4] | N/A |
| *Hyperoodon ampullatus* |  [4] |  [11] |  [4,14,26] |  [12] | N/A |  [4,26] |  [4] |  [4] |
| *Mesoplodon bidens* |  [1,2] |  [11] |  [14] | N/A | N/A | N/A | N/A |  [14] |
| *Mesoplodon bowdoini* | N/A |  [11] |  [28] | N/A | N/A | N/A | N/A | N/A |
| *Mesoplodon carlhubbsi* | N/A |  [11] |  [14] | N/A | N/A | N/A | N/A | N/A |
| *Mesoplodon densirostris* |  [46] |  [11,12] |  [4] |  [12] | N/A |  [4,47] | N/A | N/A |
| *Mesoplodon europaeus* |  [4] |  [11] |  [4] |  [12,23] | N/A | N/A | N/A | N/A |
| *Mesoplodon ginkgodens* | N/A |  [11] |  [28] | N/A | N/A | N/A | N/A | N/A |
| *Mesoplodon grayi* | N/A |  [11] |  [28] | N/A | N/A | N/A | N/A | N/A |
| *Mesoplodon hectori* | N/A |  [11] |  [28] | N/A | N/A | N/A | N/A | N/A |
| *Mesoplodon layardii* | N/A |  [11] |  [28] | N/A | N/A | N/A | N/A | N/A |
| *Mesoplodon mirus* | N/A |  [11] |  [28] | N/A | N/A | N/A | N/A | N/A |
| *Mesoplodon perrini* | N/A |  [11] |  [14] | N/A | N/A | N/A | N/A | N/A |
| *Mesoplodon peruvianus* | N/A |  [11] |  [14] | N/A | N/A | N/A | N/A | N/A |
| *Mesoplodon stejnegeri* | N/A |  [11] |  [14] | N/A | N/A | N/A | N/A | N/A |
| *Tasmacetus shepherdi* | N/A |  [11] |  [28] | N/A | N/A | N/A | N/A | N/A |
| *Ziphius cavirostris* |  [1,2] |  [11,33] |  [4,33] |  [12] |  [24] | N/A | N/A | N/A |

| Species | CalvingInterval | GroupSize | Gestation | Sociality | Group Foraging | Learned Foraging | Communication |
| --- | --- | --- | --- | --- | --- | --- | --- |
| *Balaena mysticetus* |  [4,7,9] |  [3,48] |  [4,7,8] |  [7,49] |  [7,50,51] |  [52,53] |  [7,54] |
| *Eubalaena australis* |  [4,13] |  [55] |  [4,8,14] | N/A | N/A | N/A |  [56] |
| *Eubalaena glacialis* |  [13,15] |  [13] |  [4] | N/A | N/A | N/A |  [57–59] |
| *Eubalaena japonica* | N/A | N/A | N/A | N/A | N/A | N/A |  [60] |
| *Balaenoptera acutorostrata* |  [4,61,62] |  [11] |  [4,11] | N/A | N/A |  [13] |  [63] |
| *Balaenoptera bonaerensis* |  [4,61,62] |  [11] |  [8] | N/A | N/A | N/A | N/A |
| *Balaenoptera borealis* |  [4] |  [11] |  [4] | N/A | N/A | N/A | N/A |
| *Balaenoptera edeni* |  [11] |  [11] |  [4,8] | N/A |  [19,64] |  [19,64] |  [65,66] |
| *Balaenoptera musculus* |  [4,22] |  [11] |  [4,8] |  [67] |  [59,68] | N/A |  [59,69,70] |
| *Balaenoptera physalus* |  [4,22] |  [11] |  [4,8] |  [64] |  [64] |  [64] |  [71] |
| *Megaptera novaeangliae* |  [4,13,72] |  [11,73] |  [4,8] |  [74–76] |  [13,77–80] |  [81,82] |  [11,78,83,84] |
| *Cephalorhynchus commersonii* | N/A |  [85] |  [4,14] |  [86] | N/A | N/A | N/A |
| *Cephalorhynchus heavisidii* | N/A | N/A | N/A |  [87] | N/A | N/A | N/A |
| *Cephalorhynchus hectori* |  [88] |  [89,90] |  [88] |  [88,89,91] | N/A |  [88,92] |  [93,94] |
| *Delphinus delphis* |  [4,27,95] |  [96–98] |  [4,95] |  [98] |  [97,99,100] | N/A |  [101–103] |
| *Delphinus capensis* | N/A |  [104] | N/A | N/A | N/A | N/A | N/A |
| *Feresa attenuata* | N/A |  [105] | N/A |  [105,106] |  [105] | N/A | N/A |
| *Globicephala macrorhynchus* |  [4] |  [106] |  [4,14] |  [91,107] |  | N/A |  [108] |
| *Globicephala melas* |  [27] | N/A |  [4,27] |  [109] |  [110] | N/A | N/A |
| *Grampus griseus* | N/A |  [111] |  [4,14] |  [112] |  [112] | N/A | N/A |
| *Lagenodelphis hosei* | N/A | N/A |  [4] | N/A | N/A | N/A | N/A |
| *Lagenorhynchus acutus* | N/A |  [11] |  [4,14] | N/A | N/A | N/A | N/A |
| *Lagenorhynchus albirostris* | N/A |  [113] | N/A |  [113] | N/A | N/A | N/A |
| *Lagenorhynchus australis* | N/A |  [114] | N/A | N/A | N/A | N/A | N/A |
| *Lagenorhynchus obliquidens* | N/A |  [115] |  [4] | N/A | N/A | N/A |  [116] |
| *Lagenorhynchus obscurus* | N/A |  [117] |  [14] |  [117,118] |  [119–122] | N/A | N/A |
| *Lissodelphis borealis* | N/A |  [11,123] | N/A | N/A | N/A | N/A |  [123] |
| *Lissodelphis peronii* | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| *Orcaella brevirostris* | N/A | N/A |  [4,14] | N/A | N/A | N/A | N/A |
| *Orcaella heinsohnii* | N/A |  [124] | N/A |  [124] |  [124] | N/A | N/A |
| *Orcinus orca* |  [4,13,27] |  [11,62] |  [4,27] |  [91] |  [125–131] |  [125–131] |  [132–134] |
| *Peponocephala electra* |  [135] |  [34] | N/A |  [34,135,136] | N/A | N/A |  [137] |
| *Pseudorca crassidens* |  [4] |  [138] |  [4,8,14] | N/A | N/A | N/A | N/A |
| *Sotalia fluviatilis* |  [139] |  [140,141] |  [4,14,27] | N/A |  [36] |  [139] |  [36] |
| *Sotalia guianensis* | N/A |  [142] |  [39] |  [91,143–145] |  [146,147] | N/A |  [148–153] |
| *Sousa chinensis* | N/A |  [124] | N/A |  [124,154] |  [124] | N/A |  [155,156] |
| *Sousa sahulensis* | N/A |  [157] | N/A |  [157–159] | N/A | N/A | N/A |
| *Stenella attenuata* |  [4,27] |  [160] |  [4] | N/A | N/A | N/A | N/A |
| *Stenella clymene* | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| *Stenella coeruleoalba* |  [4,27] |  [161] |  [4] | N/A | N/A | N/A |  [162] |
| *Stenella frontalis* |  [40] |  [163] | N/A |  [11,91,163–165] | N/A |  [163] |  [166] |
| *Stenella longirostris* |  [27] |  [11,167] |  [14] |  [11] |  [167] | N/A |  [168,169] |
| *Steno bredanensis* | N/A |  [170] | N/A |  [170] |  [11] | N/A | N/A |
| *Tursiops aduncus* |  [41,171] |  [172] |  [42] |  [42,173] |  [42,172] |  [42,174,175] |  [176,177] |
| *Tursiops truncatus* |  [4,27] |  [11,72,178] |  [4,8] |  [72,91,178–185] |  [11,186–191] |  [11,174,186–192] |  [11,193–195] |
| *Eschrichtius robustus* |  [4] |  [11] |  [4,14] |  [91] |  [196,197] | N/A |  [198,199] |
| *Inia geoffrensis* | N/A |  [200] |  [4,14] | N/A | N/A | N/A | N/A |
| *Kogia breviceps* |  [44] |  [11,44] |  [4,14] |  [44] | N/A | N/A |  [11,44] |
| *Kogia sima* |  [44] |  [11,44,201] |  [44] |  [44] | N/A | N/A |  [11,44] |
| *Lipotes vexillifer* |  [4] |  [11] |  [4] |  [11,202] | N/A | N/A | N/A |
| *Delphinapterus leucas* |  [4] |  [203] |  [4,14] |  [11,180,203,204] |  [11,205,206] |  [11,205,206] |  [11,207–210] |
| *Monodon monoceros* |  [4] |  [211] |  [4,14] |  [212] |  [212] | N/A |  [213] |
| *Caperea marginata* | N/A | N/A |  [4,14] | N/A | N/A | N/A | N/A |
| *Neophocaena phocaenoides* |  [4] | N/A |  [4,14] | N/A | N/A | N/A | N/A |
| *Phocoena dioptrica* | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| *Phocoena phocoena* |  [4] |  [214] |  [4,8,14] | N/A |  [215] | N/A | N/A |
| *Phocoena spinipinnis* | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| *Physeter macrocephalus* |  [4] |  [11,13] |  [4,8] |  [11,91,216–219] |  [220–222] |  [217,221,223] |  [11,217] |
| *Platanista gangetica* | N/A | N/A |  [4] | N/A | N/A | N/A | N/A |
| *Pontoporia blainvillei* |  [4] |  [224] |  [4,14] | N/A | N/A | N/A | N/A |
| *Berardius bairdii* | N/A |  [225,226] |  [4,14] |  [225] | N/A | N/A |  [11,226] |
| *Hyperoodon ampullatus* |  [4] |  [226,227] |  [4,14] |  [227] | N/A | N/A |  [228] |
| *Mesoplodon bidens* | N/A |  [229] |  [14]  | N/A | N/A | N/A |  [230] |
| *Mesoplodon bowdoini* | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| *Mesoplodon carlhubbsi* | N/A | N/A |  [14] | N/A | N/A | N/A |  [226] |
| *Mesoplodon densirostris* | N/A |  [46,226] | N/A |  [46,225,231] |  [232,233] |  [231] |  [11] |
| *Mesoplodon europaeus* | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| *Mesoplodon ginkgodens* | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| *Mesoplodon grayi* | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| *Mesoplodon hectori* | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| *Mesoplodon layardii* | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| *Mesoplodon mirus* | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| *Mesoplodon perrini* | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| *Mesoplodon peruvianus* | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| *Mesoplodon stejnegeri* | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| *Tasmacetus shepherdi* | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| *Ziphius cavirostris* | N/A |  [226,234] |  [4,14] |  [46,231] |  [235] |  [231] |  [226] |

**Table S3** Reference List

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