# 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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