

DateLife Workflows

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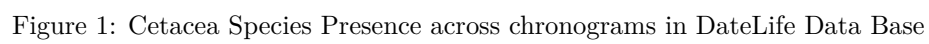
Taxon Cetacea

There are 198 species in the Open Tree of Life Taxonomy for the taxon Cetacea. Information on time of divergence is available for 89 of these species across 6 published and peer-reviewed chronograms from the following studies:

1. Toljagić O., Voje K.L., Matschiner M., Liow L., & Hansen T.F. 2017. Millions of Years Behind: Slow Adaptation of Ruminants to Grasslands. *Systematic Biology*, .
2. Bininda-Emonds, Olaf R. P., Marcel Cardillo, Kate E. Jones, Ross D. E. MacPhee, Robin M. D. Beck, Richard Grenyer, Samantha A. Price, Rutger A. Vos, John L. Gittleman, Andy Purvis. 2007. The delayed rise of present-day mammals. *Nature* 446 (7135): 507-512
3. Hedges, S. Blair, Julie Marin, Michael Suleski, Madeline Paymer, Sudhir Kumar. 2015. Tree of life reveals clock-like speciation and diversification. *Molecular Biology and Evolution* 32 (4): 835-845
4. Steeman, M., Hebsgaard M., Fordyce R., Ho S., Rabosky D., Nielsen R., Rahbek C., Glenner H., Sørensen M., & Willerslev E. 2009. Radiation of Extant Cetaceans Driven by Restructuring of the Oceans. *Systematic Biology* 58 (6): 573-585.

Species are distributed across chronograms as follows:

The following species were completely absent from chronogram data base: *Amphiptera pacifica*, *Balaena agamachschik*, *Balaena mangidach*, *Balaenoptera andrejewi*, *Balaenoptera caerulescens*, *Balaenoptera emargenata*, *Balaenoptera grimmii*, *Balaenoptera maculata*, *Balaenoptera nigra*, *Balaenoptera punctulata*, *Catodon polycyphus*, *Catodon polyscyphus*, *Catodon svineval*, *Cephalorhynchus commersonii*, *Cephalorhynchus heavisidii*, *Clymenia gadamu*, *Delphinapterus senedetta*, *Delphinorhynchus maculatus*, *Delphinorhynchus pernettyi*, *Delphinorhynchus santonicus*, *Delphinus abusalam*, *Delphinus anarnacus*, *Delphinus attenuatus*, *Delphinus bertini*, *Delphinus bonnaterrei*, *Delphinus boryi*, *Delphinus caerulescens*, *Delphinus carbonarius*, *Delphinus coronatus*, *Delphinus cymodice*, *Delphinus cymodoce*, *Delphinus epidon*, *Delphinus eurynome*, *Delphinus fabricii*, *Delphinus feres*, *Delphinus gadamu*, *Delphinus hamatus*, *Delphinus harlani*, *Delphinus leucocephalus*, *Delphinus livittatus*, *Delphinus maculatus*, *Delphinus maculiventer*, *Delphinus minimus*, *Delphinus nesarnac*, *Delphinus niger*, *Delphinus pernettyensis*, *Delphinus pernettyi*, *Delphinus perniger*, *Delphinus rappii*, *Delphinus rhinoceros*, *Delphinus salam*, *Delphinus sculus*, *Delphinus symodice*, *Delphinus walkeri*,



Epiodon rafinesque, *Epiodon urganantus*, *Eudelphinus tasmaniensis*, *Globicephala macrorhyncus*, *Globicephalus fuscus*, *Globicephalus uneidens*, *Globiocephalus chinensis*, *Inia araguaiaensis*, *Inia boliviensis*, *Lagenodelphis australis*, *Lagenodelphis obliquidens*, *Lagenodelphis hosei*, *Lagenorhynchus bombifrons*, *Lagenorhynchus nilssonii*, *Lagenorhynchus posidonia*, *Lagenorhynchus superciliosus*, *Lagenorhynchus acutus*, *Lagenorhynchus albirostris*, *Lagenorhynchus australis*, *Lagenorhynchus cruciger*, *Lagenorhynchus obliquidens*, *Lagenorhynchus obscurus*, *Mesoplodon hotaula*, *Mesoplodon lazardii*, *Monodon spurius*, *Neophocaena asiaeorientalis*, *Phocaena posidonia*, *Physeter gibbosus*, *Physeter katadon*, *Physeter krefftii*, *Physeter polycephus*, *Physeter polycystus*, *Physeter pterodon*, *Platanista indi*, *Prodelphinus malayanus*, *Sotalia gadamu*, *Sotalia maculiventer*, *Sotalia perniger*, *Sotalia santonicus*, *Sousa gadamu*, *Sousa plumbea*, *Sousa sahalensis*, *Steno fuscus*, *Steno gadamu*, *Steno malayanus*, *Steno perniger*, *Tursio catalania*, *Tursio cymodoce*, *Tursio eurynome*, *Tursiops australis*, *Tursiops catalania*, *Tursiops cymodice*, *Tursiops dawsoni*, *Tursiops fergusonii*, *Tursiops nesarnack*