

# Resource Summary Report

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## TAED - The Adaptive Evolution Database

RRID:SCR\_006930

Type: Tool

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### Proper Citation

TAED - The Adaptive Evolution Database (RRID:SCR\_006930)

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### Resource Information

**URL:** <http://www.bioinfo.no/tools/TAED>

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**Description:** A database of sequence alignments and phylogenetic trees for chordates and embryophytes. The Adaptive Evolution Database (TAED) was first presented as a collection of branches from chordate and embryophyte gene families with fast evolutionary rates mapped onto the NCBI taxonomy (1,2). The original gene families were from the Master Catalog and are proprietary (3). A new version of TAED is now presented as a taxonomic shell together with a gene family database. In addition to multiple sequence alignments and phylogenetic trees for all families of chordate and embryophyte sequences, the ratio of non-synonymous to synonymous nucleotide substitution rates (Ka/Ks) is provided for each branch of every phylogenetic tree. This ratio, when significantly greater than 1, is an indicator of positive selection and potentially a change of function of the encoded protein. With a gene tree to species tree mapping, the branches significantly greater than 1 are collated together in a phylogenetic context. The framework is expandable to incorporate other genomic-scale information in a phylogenetic context. Ultimately, the database is designed both to provide high-quality gene families with multiple sequence alignments and phylogenetic trees for chordates and embryophytes, and to enable asking the question, What makes each species unique at the molecular genomic level?

**Abbreviations:** TAED

**Synonyms:** The Adaptive Evolution Database

**Resource Type:** database, data or information resource

**Keywords:** evolution, phylogenetic tree, taxonomy

**Resource Name:** TAED - The Adaptive Evolution Database

**Resource ID:** SCR\_006930

**Alternate IDs:** nif-0000-03533, r3d100012568

**Alternate URLs:** <https://doi.org/10.17616/R3DF5W>

**Record Creation Time:** 20220129T080238+0000

**Record Last Update:** 20260803T040447+0000

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## Ratings and Alerts

No rating or validation information has been found for TAED - The Adaptive Evolution Database.

No alerts have been found for TAED - The Adaptive Evolution Database.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 1 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [ASWG](#) .

Galperin MY, et al. (2005) The Molecular Biology Database Collection: 2005 update. Nucleic acids research, 33(Database issue), D5.