

Package ‘cofid’

July 22, 2025

Type Package

Title Copepod Fish Interaction Database

Version 1.0.0

Description A curated list of copepod-fish ecological interaction records.
It contains the taxonomy of the copepod and the fish and the publication from which the information was obtained. This database contains only marine and brackish water fish species. It excludes fish species that inhabit only freshwater.

License GPL (>= 3)

Encoding UTF-8

LazyData true

Depends R (>= 2.10)

RoxygenNote 7.2.3

URL <<https://alrobles.github.io/cofid/>>

NeedsCompilation no

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Repository CRAN

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 cofid

Copepod fish interaction database

Description

A list of interactions between copepods and fish based on WoRMS database. And curated by Francisco Neptalí Morales-Serna. This dataset was cleaned and formatted by Angel Luis Robles Fernandez following the GloBi (Global interactions) database standard. The cleaned dataset is stored in 10.5281/zenodo.11002619

Usage

cofid

Format

'cofid' A data frame with 7273 rows and 10 columns:

source_taxon_external_id WoRMS id of the parasite, i.e. AphiaID

source_taxon_name Scientific name of the species

source_taxon_path Taxon path of the parasite

source_specimen_life_stage Life stage of the parasite

interaction_type Type of interaction between parasite and host

target_taxon_external_id WoRMS id of the host, i.e. AphiaID

target_taxon_name Scientific name of the host

target_taxon_path Taxon path of the host

study_citation Source paper of the interaction

Source

Copepod fish interaction database <10.5281/zenodo.11002619>

 getCopepods

Find copepod occurrence data for given copepod species. Given a copepod family, genus or species returns a list of copepod occurrences.

Description

Find copepod occurrence data for given copepod species. Given a copepod family, genus or species returns a list of copepod occurrences.

Usage

```
getCopepods(species = NULL, genus = NULL, family = NULL, citation = TRUE)
```

Arguments

species	Copepod species to filter
genus	Copepod genus to filter
family	Copepod family to filter
citation	boolean. Should the output include the citation information? default is FALSE

Value

A data.frame with copepod fish interactions

Examples

```
getCopepods(genus = "Caligus")
```

getFish	<i>Find copepod occurrence data for given host fish. Given a fish family, genus or species returns a list of copepod occurrences on that host</i>
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Description

Find copepod occurrence data for given host fish. Given a fish family, genus or species returns a list of copepod occurrences on that host

Usage

```
getFish(species = NULL, genus = NULL, family = NULL, citation = TRUE)
```

Arguments

species	Fish species to filter
genus	Fish genus to filter
family	Fish family to filter
citation	boolean. Should the output include the citation information? default is FALSE

Value

A data.frame with copepod fish interactions

Examples

```
getFish(genus = "Molva")
```

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