

# Package ‘cofid’

May 28, 2024

**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	<i>Copepod fish interaction database</i>
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### 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>

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getCopepods	<i>Find copepod occurrence data for given copepod species. Given a copepod family, genus or species returns a list of copepod occurrences.</i>
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### 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")
```

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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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