

Package: helminthR (via r-universe)

July 31, 2026

Type Package

Title Access London Natural History Museum Host-Helminth Record Database

Version 1.1.0

Depends R (>= 3.5.0)

Imports utils, taxize

Suggests testthat, knitr, rmarkdown

VignetteBuilder knitr

URL <https://docs.ropensci.org/helminthR/>,
<https://github.com/rOpenSci/helminthR/>

BugReports <https://github.com/rOpenSci/helminthR/issues/>

Description Access to large host-parasite data is often hampered by the availability of data and difficulty in obtaining it in a programmatic way to encourage analyses. 'helminthR' provides access to the London Natural History Museum's host-parasite database, one of the largest host-parasite databases existing currently.

License GPL-3

LazyData yes

Encoding UTF-8

RoxygenNote 7.3.2

Config/pak/sysreqs libglpk-dev libicu-dev libxml2-dev libssl-dev

Repository <https://ropensci.r-universe.dev>

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RemoteUrl <https://github.com/ropensci/helminthR>

RemoteRef master

RemoteSha 02afebbb662009790a60d6df43df201b5ac0d739

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helminthR-package	<i>Access London Natural History Museum host-helminth record database</i>
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Description

'helminthR': data from the London Natural History Museum's host-parasite database.

Author(s)

Tad Dallas <tad.a.dallas@gmail.com>

References

Gibson, D. I., Bray, R. A., & Harris, E. A. (Compilers) (2005). Host-Parasite Database of the Natural History Museum, London. <http://www.nhm.ac.uk/research-curation/scientific-resources/taxonomy-systematics/host-parasites/>

See Also

Useful links:

- <https://docs.ropensci.org/helminthR/>
- <https://github.com/rOpenSci/helminthR/>
- Report bugs at <https://github.com/rOpenSci/helminthR/issues/>

cleanData	<i>Clean helminth parasite occurrence data</i>
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Description

Given the data or a subset of the helminth interaction data (see 'loadData()'), perform various cleaning functions on the data, including validation of species names, run taxize on hosts (again, as there are already host and parasite taxonomic variables as part of this data.frame , and remove records only to genus level.

Usage

```
cleanData(data, speciesOnly = FALSE, validateHosts = FALSE)
```

Arguments

data	helminth interaction data
speciesOnly	boolean flag to remove host and parasite species where data are only available at genus level (default = FALSE)
validateHosts	boolean flag to check host species names against Catalogue of Life information and output taxonomic information (default = FALSE)

Details

Use data(locations) for a list of possible locations.

Value

data.frame with cleaned data

Author(s)

Tad Dallas

loadData

Load the helminth interaction data

Description

Load the helminth interaction data

Usage

```
loadData(outdir = ".")
```

Arguments

outdir	output directory (default is the top-level of the package repo)
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Value

data.frame of host-helminth interactions

Author(s)

Tad Dallas

References

Gibson, D. I., Bray, R. A., & Harris, E. A. (Compilers) (2005). Host-Parasite Database of the Natural History Museum, London.

locations

Table of geographic location names, and associated coordinates

Description

Lists geographic locations and the corresponding latitude and longitude coordinates of the country's centroid. The georeferencing was performed dynamically using the Google Maps API, but they have since restricted access. The data on locations is now provided in this data file called `locations` – `data(locations)` – and is based on an earlier usage of `ggmap`. The geographic coordinates may not be accurate, and users should check for accuracy (and feel free to file an issue or PR on Github with corrections).

Usage

```
data(locations)
```

Format

Location Name of geographic location

Latitude Latitude of location centroid

Longitude Longitude of location centroid

References

Gibson, D. I., Bray, R. A., & Harris, E. A. (Compilers) (2005). Host-Parasite Database of the Natural History Museum, London.

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