

Package ‘genomes’

October 14, 2021

Type Package

Title Genome sequencing project metadata

Version 3.22.0

Date 2015-12-21

Author Chris Stubben

Maintainer Chris Stubben <stubben@lanl.gov>

License GPL-3

Depends readr, curl

biocViews Annotation, Genetics

Description Download genome and assembly reports from NCBI

git_url <https://git.bioconductor.org/packages/genomes>

git_branch RELEASE_3_13

git_last_commit ea29173

git_last_commit_date 2021-05-19

Date/Publication 2021-10-14

R topics documented:

genus	2
reports	3
species	4

Index	5
--------------	----------

genus	<i>Extract the genus name</i>
-------	-------------------------------

Description

Extracts the genus name from a scientific name

Usage

genus(x)

Arguments

x A vector of scientific names

Details

Removes single quotes, brackets and candidate qualifiers.

Value

A vector of genus names

Author(s)

Chris Stubben

See Also

[species](#)

Examples

```
genus("[Bacillus] selenitireducens")
```

reports	<i>Genome and assembly reports</i>
---------	------------------------------------

Description

Genome and assembly reports from the NCBI genomes FTP

Usage

```
reports(file, assembly = FALSE, ...)
```

Arguments

file	file name, if missing then the files in the FTP directory are listed
assembly	use ASSEMBLY_REPORTS directory, default is GENOME_REPORTS
...	additional options passed to read_delim

Details

Uses read_delim in the readr package to read genome or assembly reports in the genomes FTP

Value

A list of files if file name is missing, otherwise a data.frame with class c("tbl_df", "tbl", "data.frame").
If dplyr is loaded, then printing will return the first ten rows and not the first 10,000.

Author(s)

Chris Stubben

References

See ftp://ftp.ncbi.nih.gov/genomes/GENOME_REPORTS and ftp://ftp.ncbi.nih.gov/genomes/ASSEMBLY_REPORTS

Examples

```
reports()  
## Not run:  
proks <- reports("prokaryotes.txt")  
  
## End(Not run)
```

species

Extract the species name

Description

Extracts the species name from a scientific name

Usage

species(x)

Arguments

x A vector of scientific names

Details

Removes single quotes, brackets and candidate qualifiers.

Value

A vector of species names

Author(s)

Chris Stubben

See Also

[genus](#)

Examples

```
species("Candidatus Carsonella ruddii PV")
```

Index

* **methods**
 genus, [2](#)
 reports, [3](#)
 species, [4](#)

genus, [2, 4](#)

reports, [3](#)

species, [2, 4](#)