

Package ‘genomes’

March 9, 2025

Type Package

Title Genome sequencing project metadata

Version 3.37.0

Date 2015-12-21

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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 devel

git_last_commit 4bdaa9c

git_last_commit_date 2024-10-29

Repository Bioconductor 3.21

Date/Publication 2025-03-09

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| | |
|-------|-------------------------------|
| 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 | <i>Extract the species name</i> |
|---------|---------------------------------|

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")
```

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