Package 'crisprVerse'

November 12, 2026

Title Easily install and load the crisprVerse ecosystem for CRISPR gRNA design

Version 1.15.0

Description The crisprVerse is a modular ecosystem of R packages developed for the design and manipulation of CRISPR guide RNAs (gRNAs). All packages share a common language and design principles. This package is designed to make it easy to install and load the crisprVerse packages in a single step. To learn more about the crisprVerse, visit <https://www.github.com/crisprVerse>.

Depends R (>= 4.2.0)

Imports BiocManager, cli, crisprBase, crisprBowtie, crisprScore, crisprScoreData, crisprDesign, crisprViz, rlang, tools, utils

Suggests BiocStyle, knitr, testthat

biocViews CRISPR, FunctionalGenomics, GeneTarget

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Encoding UTF-8

RoxygenNote 7.3.3

VignetteBuilder knitr

BugReports https://github.com/crisprVerse/crisprVerse/issues

URL https://github.com/crisprVerse/crisprVerse

git_url https://git.bioconductor.org/packages/crisprVerse

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`crisprVerse-package` *crisprVerse: Easily install and load the crisprVerse ecosystem for CRISPR gRNA design*

Description

The crisprVerse is a modular ecosystem of R packages developed for the design and manipulation of CRISPR guide RNAs (gRNAs). All packages share a common language and design principles. This package is designed to make it easy to install and load the crisprVerse packages in a single step. To learn more about the crisprVerse, visit https://www.github.com/crisprVerse.

Author(s)

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See Also

Useful links:

- https://github.com/crisprVerse/crisprVerse
- Report bugs at https://github.com/crisprVerse/crisprVerse/issues

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`crisprVerse_deps` *List all crisprVerse dependencies*

Description

List all crisprVerse dependencies

Usage

```
crisprVerse_deps(recursive = FALSE)
```

Arguments

`recursive`	If `TRUE`, will also list all dependencies of crisprVerse packages.

Value

A data.frame describing crisprVerse dependencies

Examples

```
if (interactive()){
    crisprVerse_deps()
}
```

crisprVerse_packages *List all packages in the crisprVerse*

Description

List all packages in the crisprVerse

Usage

```
crisprVerse_packages(include_self = TRUE)
```

Arguments

include_self	Include crisprVerse in the list?

Value

A character vector of packages in the crisprVerse

Examples

```
crisprVerse_packages()
```

crisprVerse_update *Update crisprVerse packages*

Description

This will check to see if all crisprVerse packages (and optionally, their dependencies) are up-to-date, and will install after an interactive confirmation.

Usage

```
crisprVerse_update(recursive = FALSE)
```

Arguments

recursive	If TRUE, will also list all dependencies of crisprVerse packages.

Value

Print messages to console as a side effect.

Examples

```
if (interactive()){
    crisprVerse_update()
}
```

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