

Package ‘crisprVerse’

February 20, 2025

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

Version 1.9.0

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 7.2.1

VignetteBuilder knitr

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

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

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

git_branch devel

git_last_commit e57a5dc

git_last_commit_date 2024-10-29

Repository Bioconductor 3.21

Date/Publication 2025-02-20

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Contents

| | |
|--------------------------------|---|
| crisprVerse-package | 2 |
| crisprVerse_deps | 2 |
| crisprVerse_packages | 3 |
| crisprVerse_update | 3 |

| | |
|--------------|----------|
| Index | 5 |
|--------------|----------|

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|---------------------|----------------------------------------------------------------------------------------------|
| crisprVerse-package | <i>crisprVerse: Easily install and load the crisprVerse ecosystem for CRISPR gRNA design</i> |
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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 | <i>List all crisprVerse dependencies</i> |
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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()  
}
```

Index

* **internal**

 crisprVerse-package, [2](#)

crisprVerse (crisprVerse-package), [2](#)

crisprVerse-package, [2](#)

crisprVerse_deps, [2](#)

crisprVerse_packages, [3](#)

crisprVerse_update, [3](#)