

# Package ‘crisprVerse’

November 20, 2024

**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

**License** MIT + file LICENSE

**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>

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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*

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**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*

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**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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