Package ‘gDR’

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Type Package

Title Umbrella package for R packages in the gDR suite

Version 1.3.0

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Description Package is a part of the gDR suite. It reexports functions from other packages in the gDR suite that contain critical processing functions and utilities.
The vignette walks through the full processing pipeline for drug response analyses that the gDR suite offers.

License Artistic-2.0

Depends R (>= 4.2), gDRcore (>= 1.1.19), gDRimport (>= 1.1.9), gDRutils (>= 1.1.12)

Suggests BiocStyle, BumpyMatrix, futile.logger, gDRstyle (>= 1.1.5), gDRtestData (>= 1.1.10), kableExtra, knitr, markdown, purrr, rmarkdown, SummarizedExperiment, testthat, yaml

URL https://github.com/gdrplatform/gDR, https://gdrplatform.github.io/gDR/

BugReports https://github.com/gdrplatform/gDR/issues

biocViews Software, DataImport, ShinyApps

VignetteBuilder knitr

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gDR-package *gDR: Umbrella package for R packages in the gDR suite*

Description

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Value

package help page

package help page

Note

To learn more about functions start with `help(package = "gDR")`

Author(s)

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See Also

Useful links:

- https://github.com/gdrplatform/gDR
- https://gdrplatform.github.io/gDR/
- Report bugs at https://github.com/gdrplatform/gDR/issues

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import_data *Import raw data*

Description

Import raw data

Usage

```
import_data(
  manifest_file,
  template_file,
  results_file,
  instrument = "EnVision"
)
```

Arguments

`manifest_file`	character, file path(s) to manifest(s)
`template_file`	character, with datapaths and names of results file(s) or character with file path of templates file(s)
`results_file`	character, with datapaths and names of results file(s) or character with file path of results file(s)
`instrument`	string with type of instrument used

Value

a `data.table`

Examples

```
td <- get_test_data()
i_df <- import_data(manifest_path(td), template_path(td), result_path(td))
```

`small_combo_data` *Small data.table with raw combo data used for processing via gDR*

Description

A dataset containing the ReadoutValues for combo experiments made-up of 3 drugs, 2 co-drugs, and 2 cell lines

Usage

```
data(small_combo_data)
```

Format

A data frame with 3600 rows and 16 variables:

- Barcode
- clidcell line id
- CellLineNamecell line name
- Tissuecell line tissue
- ReferenceDivisionTimecell line division time
- Gnumberdrug id
- DrugNamedrug name
- drug_moadrug mode of action
- Concentrationdrug concentration
- Gnumber_2co-drug id

- DrugName_2co-drug name
- drug_moa_2co-drug mode of action
- Concentration_2co-drug concentration
- ReadoutValuereadout value
- BackgroundValuebackgroud value
- Durationduration

Value

data.table

`small_data` *Small data.table with raw data used for processing via gDR*

Description

A dataset containing the ReadoutValues for single-agent experiments made-up of 10 drugs and 10 cell lines

Usage

```
data(small_data)
```

Format

A data frame with 3300 rows and 12 variables:

- Barcode
- clidcell line id
- CellLineNamecell line name
- Tissuecell line tissue
- ReferenceDivisionTimecell line division time
- Gnumberdrug id
- DrugNamedrug name
- drug_moadrug mode of action
- Concentrationdrug concentration
- ReadoutValuereadout value
- BackgroundValuebackgroud value
- Durationduration

Value

data.table

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