Package 'gDR'

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Type Package

Title Umbrella package for R packages in the gDR suite

Version 1.0.0

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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 (>= 0.99.12), gDRimport (>= 0.99.10),
gDRutils (>= 0.99.13)

Suggests BiocStyle, BumpyMatrix, futile.logger, gDRstyle (>= 0.99.11),
gDRtestData (>= 0.99.11), kableExtra, knitr, markdown, purrr,
rmarkdown, SummarizedExperiment, testthat, yaml

biocViews Software, DataImport, ShinyApps

VignetteBuilder knitr

ByteCompile TRUE

LazyLoad yes

Roxygen list(markdown = TRUE)

RoxygenNote 7.2.3

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DeploySubPath gDR

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R **topics documented:**

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

Description

Package is a part of the gDR suite. It provides info about processing functions and utilities from individual gDR packages. The vignette walks through the full processing pipeline for drug response analyses that the gDR suite offers.

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Value

package help page

package help page

Note

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

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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))
```

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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

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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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