

Package: CENTREprecomputed (via r-universe)

October 10, 2026

Title Hub package for the precomputed data of CENTRE and example data

Version 1.3.0

Description Interface and documentation for the Experiment Hub records needed by the CENTRE Bioconductor software package. The Experiment Hub records contains the precomputed fisher combined p-values, CRUP correlations. Additionally, the records hold ChIP-seq and RNA-seq data used for the example of the software package.

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biocViews ExperimentData, PackageTypeData, ExperimentHub, RNASeqData, ChIPSeqData, ChipOnChipData

Depends R (>= 4.5.0)

Imports ExperimentHub, RSQLite, DBI, BiocGenerics, methods

Suggests knitr, rmarkdown, testthat, BiocStyle

VignetteBuilder knitr

URL <https://github.com/slrvv/CENTREprecomputed>

BugReports <https://github.com/slrvv/CENTREprecomputed/issues>

Config/pak/sysreqs libicu-dev libpng-dev libssl-dev zlib1g-dev

Repository <https://bioc.r-universe.dev>

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CENTREprecompDb	<i>Database for the CENTRE precomputed data</i>
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Description

The CENTREprecompDb object provides access to CENTRE's Precomputed SQLite Database Pre-computedDataLight.db. Inside the database is combinedTestData, crup_cor and metadata. For more information check the computeGenericFeatures() function from the CENTRE package.

Usage

```
CENTREprecompDb(x)
```

```
tables(x)
```

Arguments

x	sqlite file path
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Details

CENTREprecompDb is the object that provides access to CENTRE's database. tables(CENTREprecompDb) shows the tables inside the database and their columns.

Value

Object of class CENTREprecompDb

References

Based on CompoundDb::CompDb class.

Examples

```
#The object is accessed through the ExperimentHub record
eh <- ExperimentHub::ExperimentHub()
centrepredb <- eh[["EH9540"]]
tables(centrepredb)
```

fetch_data_precomp	<i>Fetch data from the CENTREprecompDb database</i>
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Description

Function to fetch data from the CENTREprecomputed package database through the CENTREprecompDb object.

Usage

```
fetch_data_precomp(x, table, columns, entries, column_filter)
```

Arguments

x	CENTREprecompDb object.
table	Table of the database on which to search. Can be combinedTestData or cor_CRUP.
columns	Columns to select. Equivalent to X in SELECT X.
entries	Element ID to select. Equivalent to ID in SELECT X FROM TABLE WHERE ID in Z. If entries or column_filter is missing the program assumes the query is SELECT X FROM TABLE.
column_filter	Column on which to apply filter. Equivalent to Z in SELECT X FROM TABLE WHERE ID in Z. If entries or column_filter is missing the program assumes the query is SELECT X FROM TABLE.

Value

data.frame with the data queried.

References

Based on the package CompoundDb query engine internal functions.

See Also

```
vignette("CENTREprecomputed")
```

Examples

```
eh <- ExperimentHub::ExperimentHub()
centrepredb <- eh[["EH9540"]]

res <- fetch_data_precomp(centrepredb,
  table = "crup_cor",
  columns = c("pair", "cor_CRUP"),
  entries = "EH38E3440167",
  column_filter = "symbol38"
)
```

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