

Package: TCGAWorkflowData (via r-universe)

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Title Data for TCGA Workflow

Version 1.36.0

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Description This experimental data package contains 11 data sets necessary to follow the ``TCGA Workflow: Analyze cancer genomics and epigenomics data using Bioconductor packages".

Depends R (>= 3.5.0)

Imports SummarizedExperiment

License GPL-3

VignetteBuilder knitr

biocViews ExperimentData, Homo_sapiens_Data, MicroarrayData, CancerData

NeedsCompilation no

URL <https://f1000research.com/articles/5-1542/v2>

BugReports <https://github.com/BioinformaticsFMRP/TCGAWorkflow/issues>

RoxygenNote 7.2.3

Suggests knitr, rmarkdown, pander, testthat, BiocStyle

Config/pak/sysreqs zlib1g-dev

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Description

This experimental data package has the data necessary to follow the TCGA Workflow: Analyze cancer genomics and epigenomics data using Bioconductor packages. It contains the following files:

- `met20SamplesGBMLGGchr9`: DNA methylation matrix from Infinium HumanMethylation450 platform for 10 LGG (Lower grade glioma) and 10 GBM (Glioblastoma multiforme). It has only probes in chromosome 9 in order to make the example of the workflow faster
- `elmerExample`: Contains a DNA methylation matrix (only probes in chromosome 9) and a gene expression matrix for 10 LGG (Lower grade glioma) and 10 GBM (Glioblastoma multiforme) in the required format for to execute the R/Bioconductor ELMER package analysis and a vector identifying which sample belongs to each tumor type.
- `biogrid`: biogrid information
- `maf_lgg_gbm`: Mutation annotation files for LGG (Lower grade glioma) and GBM (Glioblastoma multiforme) samples merged into a single matrix. The GDC Somatic Mutation Calling Workflow mutect2 was used to create this MAF files.
- `histoneMarks`: histone marks specific for brain tissue using from Roadmap database.
- `genes_GR`: A GRanges Object and a dataframe with gene information (hg19) downloaded from ENSEMBLE database using biomaRt via TCGAbiolinks
- `TCGA_GBM_Transcriptome_20_samples`: a matrix with raw expression signal for expression of a gene for 20 GBM (Glioblastoma multiforme) samples
- `TCGA_LGG_Transcriptome_20_samples`: a matrix with raw expression signal for expression of a gene for 20 LGG (low grade glioma) samples

For more information how to create these objects please read the vignette of this package with the following command: `browseVignettes("TCGAWorkflowData")`

Examples

```
data("elmerExample")
data("TCGA_LGG_Transcriptome_20_samples")
data("TCGA_GBM_Transcriptome_20_samples")
data("histoneMarks")
data("biogrid")
data("genes_GR")
data("maf_lgg_gbm")
```

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* **utilities**

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