Package: canceR (via r-universe)

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Type Package

Title A Graphical User Interface for accessing and modeling the Cancer Genomics Data of MSKCC

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Description The package is user friendly interface based on the cgdsr and other modeling packages to explore, compare, and analyse all available Cancer Data (Clinical data, Gene Mutation, Gene Methylation, Gene Expression, Protein Phosphorylation, Copy Number Alteration) hosted by the Computational Biology Center at Memorial-Sloan-Kettering Cancer Center (MSKCC).

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LazyLoad yes

Depends R (>= 4.3), tcltk, cBioPortalData

Imports GSEABase, tkrplot, geNetClassifier, RUnit, Formula, rpart, survival, Biobase, phenoTest, circlize, plyr, tidyr, dplyr, graphics, stats, utils, grDevices, R.oo, R.methodsS3

Suggests testthat (>= 3.1), knitr, rmarkdown, BiocStyle

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VignetteBuilder knitr

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about *about canceR*

Description

about canceR

Usage

```
about()
```

Value

dialig box with text

Examples

```
## Not run:
about()

## End(Not run)
```

canceR *main function*

Description

main function

Usage

```
canceR()
```

Value

open the starting windows with cancer studies

Examples

```
ENV <- new.env(parent = emptyenv())
## Not run:
canceR()

## End(Not run)
```

canceR_Issue *canceR Report Issue*

Description

canceR Report Issue

Usage

```
canceR_Issue()
```

Value

link to github issues

Examples

```
## Not run:
canceR_Issue()

## End(Not run)
```

canceR_Vignette *open pdf vignette*

Description

open pdf vignette

Usage

```
canceR_Vignette()
```

Value

open pdf vignette

Examples

```
## Not run:
canceR_Vignette()

## End(Not run)
```

cbind.na *bind non equal columm*

Description

bind non equal colunm

Usage

```
cbind.na(..., deparse.level = 1)
```

Arguments

...	(generalized) vectors or matrices.
deparse.level	integer controlling the construction of labels in the case of non-matrix-like arguments (for the default method): deparse.level = 0 constructs no labels; the default, deparse.level = 1 or 2 constructs labels from the argument names.

Value

a data frame with merged columns

Examples

```
## Not run:
col1 <- c("a","b","c","d")
col2 <- c("A", "B", "C")
col3 <- cbind.na(col1, col2)

## End(Not run)
```

CGDS *CGDS connect object to cBioPortal*

Description

Creates a CGDS connection object from a CGDS endpoint URL. This object must be passed on to the methods which query the server.

Usage

```
CGDS(url,verbose=FALSE,ploterrormsg='',token=NULL)
```

Arguments

url	A CGDS URL (required).
verbose	A boolean variable specifying verbose output (default FALSE)
ploterrormsg	An optional message to display in plots if an error occurs (default ”)
token	An optional 'Authorization: Bearer' token to connect to cBioPortal instances that require authentication (default NULL)

---

dialogGeneClassifier *Dialogue Box for gene classifier setting: sample size and postprob threshold*

Description

Dialogue Box for gene classifier setting: sample size and postprob threshold

Usage

```
dialogGeneClassifier(Lchecked_Cases,entryWidth = 10,returnValOnCancel = "ID_CANCEL")
```

Arguments

Lchecked_Cases	integer with a number of checked cases
entryWidth	integer default 10
returnValOnCancel	"ID_CANCEL"

Value

a dataframe with genes classes

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/gbm_tcgaPlotTwoGenProf.rds", sep=""))
## Not run:
getGenesClassifier()
dialogGeneClassifier(1,10,returnValOnCancel = "ID_CANCEL")

## End(Not run)
```

dialoggetGeneListMSigDB *Multi-select choice of gene sets from loaded MSigDB*

Description

Multi-select choice of gene sets from loaded MSigDB

Usage

```
dialoggetGeneListMSigDB(MSigDB)
```

Arguments

MSigDB	object with MSigDB. A list of genesets

Value

a dataframe with genes classes

Examples

```
z <- 7
## Not run:
##MSigDB <- readLines(paste(.libPaths(),"/canceR/extdata/MSigDB/c5.bp.v4.0.symbols.gmt", sep=""))
dialoggetGeneListMSigDB(MSigDB)

## End(Not run)
```

dialogMetOption *Dialog Box to set methylation options*

Description

Dialog Box to set methylation options

Usage

```
dialogMetOption(ProfData, k)
```

Arguments

ProfData	adataframe with methylation data
k	threshold of silencing gene 0:1

Value

a dialog box to set methylation option (threshold of silencing gene)

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
## Not run:
getMetDataMultipleGenes()
#dialogMetOption(ProfData,0.7)

## End(Not run)
```

---

dialogMut *Dialog bos to set returned Mutation information*

Description

Dialog bos to set returned Mutation information

Usage

```
dialogMut(title, question, entryInit, entryWidth = 40,returnValOnCancel = "ID_CANCEL")
```

Arguments

title	title of the table
question	question
entryInit	entryInit
entryWidth	40
returnValOnCancel	"ID_CANCEL"

Value

a check box with mutations variables

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
## Not run:
dialogMut("title", "question", "entryInit", entryWidth = 40, returnValOnCancel = "ID_CANCEL")

## End(Not run)
```

dialogOptionCircos *Checkbox to select dimensions*

Description

Checkbox to select dimensions

Usage

```
dialogOptionCircos()
```

Value

a checkbox with all dimensions

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/Circos.rds", sep=""))
## Not run:
dialogOptionCircos()
#getCircos(dimension ="All")

## End(Not run)
```

dialogOptionGSEAlm *Dialogbox to select variables from Clinical data*

Description

Dialogbox to select variables from Clinical data

Usage

```
dialogOptionGSEAlm(k,ClinicalData)
```

Arguments

k	integer 1
ClinicalData	dataframe with clinical variables

Value

permutaion value, p-value, coVariables

Examples

```
#data(ClinicalData)
## Not run:
getOptionGSEAlm()

## End(Not run)
```

`dialogOptionPhenoTest` *Checkbox to select variables from clinical data*

Description

Checkbox to select variables from clinical data

Usage

```
dialogOptionPhenoTest(eSet)
```

Arguments

`eSet`	Expression Set

Value

vectors: variables to test Survival status, AGE, p-value

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/prad_michPhenoTest1021.rds", sep=""))
## Not run:
dialogOptionPhenoTest(ENV$eSet)

## End(Not run)
```

`dialogPlotOption_SkinCor`
Checkbox to select variables for plotting

Description

Checkbox to select variables for plotting

Usage

```
dialogPlotOption_SkinCor(s)
```

Arguments

s	integer number of Studies

Value

Dialog box with setting of correlation method

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/gbm_tcgaPlotTwoGenProf.rds", sep=""))
## Not run:
dialogPlotOption_SkinCor(1)

## End(Not run)
```

---

dialogSamplingGSEA *Dialog Box for Sampling patients from expression profile data used for GSEA-R (Broad Institute)*

Description

Dialog Box for Sampling patients from expression profile data used for GSEA-R (Broad Institute)

Usage

```
dialogSamplingGSEA(n_checked_GenProf, entryWidth = 10,returnValOnCancel = "ID_CANCEL")
```

Arguments

n_checked_GenProf	Number of checked genetic profiles
entryWidth	10
returnValOnCancel	"ID_CANCEL"

Value

A vector with sampling size

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
## Not run:
Run.GSEA()
#dialogSamplingGSEA(1,entryWidth=10,returnValOnCancel = "ID_CANCEL")

## End(Not run)
```

dialogSelectFiles_GSEA *Dialog Box to Select GCT, CLS, GMT and output Files for GSEA-R (Broad Institute)*

Description

Dialog Box to Select GCT, CLS, GMT and output Files for GSEA-R (Broad Institute)

Usage

```
dialogSelectFiles_GSEA()
```

Value

A vector with files paths

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
## Not run:
dialogSelectFiles_GSEA()

## End(Not run)
```

dialogSpecificMut *dialog box to Specify Mutation using Regular Expression. Search specific mutation using regular expression.*

Description

dialog box to Specify Mutation using Regular Expression. Search specific mutation using regular expression.

Usage

```
getSpecificMut(MutData, c)
```

Arguments

MutData	Mutation Dataframe
c	index of checked case

Value

a a dataframe with specific mutation informations

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
## Not run:
getSpecificMut(MutData, c)

## End(Not run)
```

`dialogSummary_GSEA` *Dialog Box to specify phenotype (variable) used in last GSEA-R to get Summary Results. This function ask the user to specify the phenotype (variable).*

Description

Dialog Box to specify phenotype (variable) used in last GSEA-R to get Summary Results. This function ask the user to specify the phenotype (variable).

Usage

```
dialogSummary_GSEA(Variable,returnValOnCancel ="ID_CANCEL")
```

Arguments

`Variable`	phenotype
`returnValOnCancel`	"ID_CANCEL"

Value

variables

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
## Not run:
#Run.GSEA()
#getSummaryGSEA()

## End(Not run)
```

displayInTable *Display matrix in tcltk table*

Description

Display matrix in tcltk table

Usage

```
displayInTable(tclarray,title="",height=-1,width=-1,nrow=-1,ncol=-1)
```

Arguments

tclarray	a dataframe
title	title of the table
height	-1
width	-1
nrow	-1
ncol	-1

Value

display a Table

Examples

```
#data(ClinicalData)
## Not run:
getInTable(Table= ClinicalData, title= "Clinical Data")

## End(Not run)
```

getCases *Get cases for selected Studies. The Cases are the descrption of the samples from patients. The samples can be subdivided by the type of assays as, sequencing, CNA, Mutation, Methylation.*

Description

Get cases for selected Studies. The Cases are the descrption of the samples from patients. The samples can be subdivided by the type of assays as, sequencing, CNA, Mutation, Methylation.

Usage

```
getCases()
```

Value

a dataframe with cases

Examples

```
cgds <- cBioPortal(
hostname = "www.cbioportal.org",
protocol = "https",
api = "/api/v2/api-docs"
)
## Not run:
getDataByGenes( api =  cgds,
studyId = "gbm_tcga_pub",
genes = c("NF1", "TP53", "ABL1"),
by = "hugoGeneSymbol",
molecularProfileIds = "gbm_tcga_pub_mrna"
)

## End(Not run)
```

---

getCasesGenProfs *get Cases and Genetic Profiles of selected Studies.*

Description

get Cases and Genetic Profiles of selected Studies.

Usage

```
getCasesGenProfs()
```

Value

This function is run by the "Get Cases and Genetic Profiles for selected Studies in starting window. This function needs to select at least one study and display Cases and genetic profiles in the main window.

Examples

```
cgds <- cBioPortal(
hostname = "www.cbioportal.org",
protocol = "https",
api = "/api/v2/api-docs"
)
## Not run:
getDataByGenes( api =  cgds,
studyId = "gbm_tcga_pub",
genes = c("NF1", "TP53", "ABL1"),
```

```
by = "hugoGeneSymbol",
molecularProfileIds = "gbm_tcga_pub_mrna"
)

## End(Not run)
```

`getCircos` *get Circos Layout for selected studies and selected dimensions*

Description

get Circos Layout for selected studies and selected dimensions

Usage

```
getCircos(dimension)
```

Arguments

`dimension`	string (All,mRNA, CNA, Met,RPPA, miRNA, Mut)

Value

a plot with Circos style

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/Circos.rds", sep=""))
## Not run:
getCircos(dimension ="All")

## End(Not run)
```

`getClinicalDataMatrix` *get matrix with clinical from file*

Description

get matrix with clinical from file

Usage

```
getClinicalDataMatrix()
```

Value

dataframe of clinicaldata

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/brca_tcga73genes.rds", sep=""))
## Not run:
getClinicalDataMatrix()

## End(Not run)
```

`getClinicData_MultipleCases` *get Clinical Data for Multiple Cases. User needs to select at least one case to run this function. Get clinical data for more one or multiple cases.*

Description

get Clinical Data for Multiple Cases. User needs to select at least one case to run this function. Get clinical data for more one or multiple cases.

Usage

```
getClinicData_MultipleCases(getSummaryGSEAExists)
```

Arguments

`getSummaryGSEAExists`	if equal to 0, the clinical data is displayed in table. if the argument is equal to 1, the clinical data is used to summarise GSEA analysis results.

Value

dataframe with clinical data

Examples

```
##Load Session
readRDS(paste(path.package("canceR"),"/extdata/rdata/brca_tcga73genes.rds", sep=""))
## Select Case
ENV <- new.env(parent = emptyenv())
ENV$curselectCases <- 2
## get Clinical data
## Not run:
getClinicData_MultipleCases(getSummaryGSEAExists = 0)

## End(Not run)
```

getCor_ExpCNAMet *Get gene correlation for multiple dimensions.*

Description

Get gene correlation for multiple dimensions.

Usage

```
getCor_ExpCNAMet(ListMatrix, dimension)
```

Arguments

ListMatrix	is a List of numeric matrices
dimension	Exp,CNA, Met , miRNA , RPPA

Value

correlation matrix

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/Circos.rds", sep=""))
## Not run:
getListProfData()
getCor_ExpCNAMet(ENV$ListProfData$Expression, dimension="mRNA")
head(ENV$Cor_Exp)

## End(Not run)
```

getеSet *Built Expression Set (eSet) from profile data.*

Description

Built Expression Set (eSet) from profile data.

Usage

```
geteSet()
```

Value

ExpressionSet

Examples

```
 f <- 9
 ## Not run:
readRDS(paste(path.package("canceR"),"/extdata/rdata/prad_michPhenoTest1021.rds", sep=""))
 geteSet()

## End(Not run)
```

`getFreqMutData` *get mutation frequency*

Description

get mutation frequency

Usage

```
getFreqMutData(list, GeneList)
```

Arguments

`list`	a list of data frame with mutation data. Each data frame is for one study
`GeneList`	file name of GeneList examples: "73"

Value

a data frame with mutation frequency. gene is in rows and study is in column

Examples

```
cgds <- cBioPortal(
hostname = "www.cbioportal.org",
protocol = "https",
api = "/api/v2/api-docs"
)
## Not run:
getDataByGenes( api =  cgds,
studyId = "gbm_tcga_pub",
genes = c("NF1", "TP53", "ABL1"),
by = "hugoGeneSymbol",
molecularProfileIds = "gbm_tcga_pub_mrna"
)

## End(Not run)
```

getGCT_CLSfiles *get Profile (GCT file) and Phenotype (CLS file) Data from Disease.*

Description

get Profile (GCT file) and Phenotype (CLS file) Data from Disease.

Usage

```
getGCT_CLSfiles()
```

Value

GCT and CLS files paths

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
## Not run:
getGCT_CLSfiles()

## End(Not run)
```

getGCTCLSExample *get GCT and CLS example files.*

Description

get GCT and CLS example files.

Usage

```
getGCTCLSExample()
```

Value

GCT and CLS files

Examples

```
## Load workspace
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
## Not run:
getGCTCLSExample()

## End(Not run)
```

getGeneExpMatrix *get matrix with gene expression from file*

Description

get matrix with gene expression from file

Usage

```
getGeneExpMatrix()
```

Value

dataframe of gene expression

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/brca_tcga73genes.rds", sep=""))
## Not run:
getGeneExpMatrix()

## End(Not run)
```

getGeneList *User needs to specify which gene is interesting to get genomic cancer data. The gene must be with Symbol and one gene by line.*

Description

User needs to specify which gene is interesting to get genomic cancer data. The gene must be with Symbol and one gene by line.

Usage

```
getGeneList()
```

Value

Gene list path of file

Examples

```
ENV <- new.env(parent = emptyenv())
## Not run:
getGeneList()

## End(Not run)
```

getGeneListExample *get Gene List from examples. User can select one from available gene list*

Description

get Gene List from examples. User can select one from available gene list

Usage

```
getGeneListExample()
```

Value

Gene list path of file

Examples

```
ENV <- new.env(parent = emptyenv())
## Not run:
getGeneListExample()

## End(Not run)
```

getGeneListFromMSigDB *get gene list from MSigDB*

Description

get gene list from MSigDB

Usage

```
getGeneListFromMSigDB()
```

Value

a vector with gene list

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/brca_tcgaGSEAlm1021.rds", sep=""))
## Not run:
getGeneListFromMSigDB()

## End(Not run)
```

`getGenesClassifier` *get Genes Classifier*

Description

get Genes Classifier

Usage

```
getGenesClassifier()
```

Value

a data frma with genes classes

Examples

```
x <- 0
## Not run:
readRDS(paste(path.package("canceR"),"/extdata/rdata/brca_tcga73genes.rds", sep=""))
getGenesClassifier()

## End(Not run)
```

`getGenesTree_MultipleCases`
Get successively trees of genes list for multiple cases

Description

Get successively trees of genes list for multiple cases

Usage

```
getGenesTree_MultipleCases(entryWidth = 10)
```

Arguments

`entryWidth`	10

Value

plot tree

Examples

```
 q <- readRDS(paste(path.package("canceR"),"/extdata/rdata/brca_tcga73genes.rds", sep=""))
## Not run:
readRDS(paste(.libPaths(),"/canceR/data/brca_tcga73genes.rds", sep=""))
getGenesTree_MultipleCases(entryWidth = 10)

## End(Not run)
```

`getGenesTree_SingleCase` *classify genes in tree for two phenotypes in the same case(disease).*

Description

classify genes in tree for two phenotypes in the same case(disease).

Usage

```
getGenesTree_SingleCase()
```

Value

tree plot

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/prad_michPhenoTest1021.rds", sep=""))
## Not run:
getGenesTree_SingleCase()

## End(Not run)
```

`getGenProfs` *Get Genetic Profile from selected Studies*

Description

Get Genetic Profile from selected Studies

Usage

```
getGenProfs()
```

Value

dataframe with genetic profil

Examples

```
cgds <- cBioPortal(
hostname = "www.cbioportal.org",
protocol = "https",
api = "/api/v2/api-docs"
)
## Not run:
getDataByGenes( api =  cgds,
studyId = "gbm_tcga_pub",
genes = c("NF1", "TP53", "ABL1"),
by = "hugoGeneSymbol",
molecularProfileIds = "gbm_tcga_pub_mrna"
)

## End(Not run)
```

---

getGSEAlm_Diseases *get GSEA linear modeling by studies (diseases)*

Description

get GSEA linear modeling by studies (diseases)

Usage

```
getGSEAlm_Diseases()
```

Value

a dataframe with annotation (GO, BP)

Examples

```
 readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
 ## Not run:
 getGSEAlm_Diseases

## End(Not run)
```

getGSEAlm_Variables *get GSEA linear modeling by variables (phenotype)*

Description

get GSEA linear modeling by variables (phenotype)

Usage

```
getGSEAlm_Variables()
```

Value

a dataframe with annotation (GO, BP)

Examples

```
 x <- 3
## Not run:
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
getGSEAlm_Variables()

## End(Not run)
```

getInTable *get dataframe in TK/TCL table*

Description

get dataframe in TK/TCL table

Usage

```
getInTable(table,title)
```

Arguments

table	Dataframe
title	string a title of the table

Value

display a Table

Examples

```
#data(ClinicalData)
## Not run:
getInTable(Table= ClinicalData, title= "Clinical Data")

## End(Not run)
```

`getListProfData` *Get list of data frame with profiles data (CNA,mRNA, Methylation, Mutation...)*

Description

Get list of data frame with profiles data (CNA,mRNA, Methylation, Mutation...)

Usage

```
getListProfData(checked_Studies, geneList)
```

Arguments

`checked_Studies`	checked studies in corresponding panel (input$StudiesIDCircos, input$StudiesIDReactome).
`geneList`	GeneList with Hugo Symbol

Value

A LIST of profiles data (CNA, mRNA, Methylation, Mutation, miRNA, RPPA). Each dimension content a list of studies.

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/brca_tcga73genes.rds", sep=""))
## Not run:
getListProfData()
head(ENV$ProfData$Expression)

## End(Not run)
```

getMegaProfData *Get profile data for more than 500 genes list.*

Description

Get profile data for more than 500 genes list.

Usage

```
getMegaProfData(MegaGeneList,k)
```

Arguments

MegaGeneList	Genelist >500
k	integer number of studies

Value

dataframewith profile data

Examples

```
myGlobalEnv <- new.env(parent = emptyenv())
readRDS(paste(path.package("canceR"),"/extdata/rdata/brca_tcgaGSEAlm1021.rds", sep=""))
## Not run:
getMegaProfData(myGlobaEnv$MegaGeneList,1)

## End(Not run)
```

getMetDataMultipleGenes *get Methylation data for multiple genes*

Description

get Methylation data for multiple genes

Usage

```
getMetDataMultipleGenes()
```

Value

a a dataframe with mean and median of methylation rate (threshold of silencing gene)

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
## Not run:
getMetDataMultipleGenes()

## End(Not run)
```

`getMSigDB` *Reduce MSigDB size for only gene list*

Description

Reduce MSigDB size for only gene list

Usage

```
getMSigDB(eSet, k)
```

Arguments

`eSet`	Expression Set
`k`	integer Number of studies

Value

MSigDB for user gene List

Examples

```
 d <- 7
## Not run:
setWorkspace()
getMSigDB(eSet = ENV$eSetClassifier,k = 1)

## End(Not run)
```

getMSigDBExample *get example of .gmt file from MSigDB (Broad Institute)*

Description

get example of .gmt file from MSigDB (Broad Institute)

Usage

```
getMSigDBExample()
```

Value

path of GMT file

Examples

```
 readRDS(paste(path.package("canceR"),"/extdata/rdata/brca_tcga73genes.rds", sep=""))
 ## Not run:
 getMSigDBExample()

## End(Not run)
```

getMSigDBfile *Dialog Box to Select MSigDB Files from drive*

Description

Dialog Box to Select MSigDB Files from drive

Usage

```
getMSigDBfile()
```

Value

A path of MSigDB file

Examples

```
f <- 5+2
## Not run:
readRDS(paste(path.package("canceR"),"/extdata/rdata/prad_michPhenoTest1021.rds", sep=""))
geteSet()
getMSigDBfile()

## End(Not run)
```

getMutData *get Mutation data for multiple genes*

Description

get Mutation data for multiple genes

Usage

```
getMutData()
```

Value

a a dataframe with mutation informations

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
## Not run:
getMutData()

## End(Not run)
```

getPhenoTest *Associate phenotype to Studies (cancers)*

Description

Associate phenotype to Studies (cancers)

Usage

```
getPhenoTest()
```

Value

a dataframe with disease/ variables association

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/prad_michPhenoTest1021.rds", sep=""))
## Not run:
getPhenoTest(ENV$eSet)

## End(Not run)
```

getProfData *Search and get genetic profiles (CNA,mRNA, Methylation, Mutation...)*

Description

Search and get genetic profiles (CNA,mRNA, Methylation, Mutation...)

Usage

```
getProfData(study,genProf, listGenProf, GeneList, Mut)
```

Arguments

study	Study ID
genProf	Genetic Profile id (cancer_study_id_[mutations, cna, methylation, mrna]).
listGenProf	A list of Genetic Profiles for one study.
GeneList	A list of genes
Mut	Condition to set if the genetic profile is mutation or not (0,1)

Details

See https://github.com/kmezhoud/bioCancer/wiki

Value

A data frame with Genetic profile

Examples

```
cgds <- cBioPortal(
hostname = "www.cbioportal.org",
protocol = "https",
api = "/api/v2/api-docs"
)
## Not run:
getDataByGenes( api =  cgds,
studyId = "gbm_tcga_pub",
genes = c("NF1", "TP53", "ABL1"),
by = "hugoGeneSymbol",
molecularProfileIds = "gbm_tcga_pub_mrna"
)

## End(Not run)
```

getProfilesDataMultipleGenes *get Profles Data of multiple genes*

Description

get Profles Data of multiple genes

Usage

```
getProfilesDataMultipleGenes(getSummaryGSEAExists)
```

Arguments

getSummaryGSEAExists	if equal to 0, the clinical data is displayed in table. if the argument is equal to 1, the clinical data is used to summarise GSEA analysis results.

Value

a file with a dataframe of profle data

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/prad_michPhenoTest1021.rds", sep=""))
## Not run:
getProfilesDataMultipleGenes(getSummaryGSEAExists = 0)

## End(Not run)
```

getProfilesDataSingleGene *get Profiles Data for a Single Gene.*

Description

get Profiles Data for a Single Gene.

Usage

```
getProfilesDataSingleGene()
```

Value

dataframe with profiles data for a single gene

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/brca_tcga73genes.rds", sep=""))
## Select Case from Breast Cancer
 ENV <- new.env(parent = emptyenv())
ENV$curselectCases <- 9
##Select Genetic Profile from Breast Cancer
ENV$curselectGenProfs <- 4
## get Specific Mutation data for 73 Genes list
## Not run:
getProfilesDataSingleGene()

## End(Not run)
```

`getSpecificMut` *get specific Mutation data for multiple genes*

Description

get specific Mutation data for multiple genes

Usage

```
getSpecificMut()
```

Value

a a dataframe with specific mutation informations

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata//ucec_tcga_pubGSEA1021.rds", sep=""))
## Not run:
getSpecificMut()

## End(Not run)
```

`getSummaryGSEA` *get Summary results from GSEA-R (Broad Institute)*

Description

get Summary results from GSEA-R (Broad Institute)

Usage

```
getSummaryGSEA()
```

Value

Dataframe with summary results

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
## Not run:
Run.GSEA()
getSummaryGSEA()

## End(Not run)
```

`getSurvival` *Survival plot*

Description

Survival plot

Usage

```
getSurvival(Coxph)
```

Arguments

`Coxph`	if Coxph = 0 : plot Kaplan-Meier curves else Coxph= 1 : plot Cox Proportional Hazard Model

Value

Survival plot

Examples

```
surv <- 11
## Not run:
readRDS(paste(path.package("canceR"),"/extdata/rdata/gbm_tcgaPlotTwoGenProf.rds", sep=""))
getSurvival(Coxph = 1)

## End(Not run)
```

getTextWin *get text in tcltk windows*

Description

get text in tcltk windows

Usage

```
getTextWin(text)
```

Arguments

text	string

Value

tcltk windows with text

Examples

```
text <- "mytext"
## Not run:
getTextWin(text)

## End(Not run)
```

GSEA *GSEA-R (Broad Institute)*

Description

See http://www.broadinstitute.org/cancer/software/gsea/wiki/index.php/R-GSEA_Readme

Value

GSEA

Author(s)

Subramanian, Tamayo, et al. (2005, PNAS 102, 15545-15550) and Mootha, Lindgren, et al. (2003, Nat Genet 34, 267-273)

Examples

```
## Not run:
library(canceR)
## Load workspace
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
##Run.GSEA()

## End(Not run)
```

GSEA.Analyze.Sets *GSEA.Analyze.Sets*

Description

http://www.broadinstitute.org/cancer/software/gsea/wiki/index.php/R-GSEA_Readme

Usage

```
GSEA.Analyze.Sets(directory,topgs="",non.interactive.run= FALSE,height=12,width=17)
```

Arguments

directory	directory= fname.Output
topgs	topgs = 20
non.interactive.run	non.interactive.run= FALSE
height	height=16
width	width=16

Value

GSEA.Analyze.Sets

Author(s)

Subramanian, Tamayo, et al. (2005, PNAS 102, 15545-15550) and Mootha, Lindgren, et al. (2003, Nat Genet 34, 267-273)

References

http://www.broadinstitute.org/cancer/software/gsea/wiki/index.php/Main_Page.

Examples

```
## Not run:
## Load workspace
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
##Run.GSEA()

## End(Not run)
```

GSEA.ConsPlot *GSEA.ConsPlot*

Description

GSEA.ConsPlot

Usage

```
GSEA.ConsPlot(V, col.names, main = " ", sub = " ", xlab = " ", ylab = " ")
```

Arguments

V	V="Itable"
col.names	col.names = colnames
main	main= " "
sub	sub = " "
xlab	xlab= " "
ylab	ylab = " "

Value

GSEA.ConsPlot

Examples

```
## Not run:
library(canceR)
## Load workspace
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
##Run.GSEA()

## End(Not run)
```

GSEA.EnrichmentScore *GSEA.EnrichmentScore*

Description

GSEA.EnrichmentScore

Usage

```
GSEA.EnrichmentScore(gene.list, gene.set, weighted.score.type = 1, correl.vector = NULL)
```

Arguments

gene.list

gene.set

weighted.score.type

correl.vector

Value

GSEA.EnrichmentScore

Examples

```
## Not run:
library(canceR)
## Load workspace
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
##Run.GSEA()

## End(Not run)
```

GSEA.EnrichmentScore2 *GSEA.EnrichmentScore2*

Description

GSEA.EnrichmentScore2

Usage

```
GSEA.EnrichmentScore2(gene.list, gene.set, weighted.score.type = 1, correl.vector = NULL)
```

Arguments

gene.list
gene.set
weighted.score.type

correl.vector

Value

GSEA.EnrichmentScore2

Examples

```
## Not run:
library(canceR)
## Load workspace
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
##Run.GSEA()

## End(Not run)
```

GSEA.Gct2Frame *GSEA.Gct2Frame*

Description

GSEA.Gct2Frame

Usage

```
GSEA.Gct2Frame(filename = "NULL")
```

Arguments

filename

Value

GSEA.GCT2Frame

Examples

```
## Not run:
library(canceR)
## Load workspace
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
##Run.GSEA()

## End(Not run)
```

GSEA.Gct2Frame2 *GSEA.Gct2Frame2*

Description

GSEA.Gct2Frame2

Usage

```
GSEA.Gct2Frame2(filename = "NULL")
```

Arguments

filename

Value

GSEA.GCT2Frame2

Examples

```
## Not run:
library(canceR)
## Load workspace
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
##Run.GSEA()

## End(Not run)
```

GSEA.GeneRanking *GSEA.GeneRanking*

Description

GSEA.GeneRanking

Arguments

A
class.labels
gene.labels
nperm
permutation.type
sigma.correction

fraction

replace

reverse.sign

Value

GSEA.GeneRanking

Examples

```
## Not run:
library(canceR)
## Load workspace
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
##Run.GSEA()

## End(Not run)
```

GSEA.HeatMapPlot *GSEA.HeatMapPlot*

Description

GSEA.HeatMapPlot

Value

GSEA.HeatMapPlot

Examples

```
## Not run:
library(canceR)
## Load workspace
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
##Run.GSEA()

## End(Not run)
```

GSEA.HeatMapPlot2 *GSEA.HeatMapPlot2*

Description

GSEA.HeatMapPlot2

Value

GSEA.HeatMapPlot2

Examples

```
## Not run:
library(canceR)
## Load workspace
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
##Run.GSEA()

## End(Not run)
```

GSEA.NormalizeCols *GSEA.NormalizeCols*

Description

GSEA.NormalizeCols

Usage

```
GSEA.NormalizeCols(V)
```

Arguments

V

Value

GSEA.NormalizeCols

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
## Not run:
## Load workspace
##Run.GSEA()

## End(Not run)
```

GSEA.NormalizeRows *GSEA.NormalizeRows*

Description

GSEA.NormalizeRows

Usage

```
GSEA.NormalizeRows(V)
```

Arguments

V

Value

GSEA.NormalizeRows

Examples

```
## Not run:
library(canceR)
## Load workspace
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
##Run.GSEA()

## End(Not run)
```

GSEA.ReadClsFile *GSEA.ReadClsFile*

Description

GSEA.ReadClsFile

Usage

```
GSEA.ReadClsFile(file = "NULL")
```

Arguments

file

Value

GSEA.ReadClsFile

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
## Not run:
##Run.GSEA()

## End(Not run)
```

GSEA.Res2Frame *GSEA.Res2Frame*

Description

GSEA.Res2Frame

Usage

```
GSEA.Res2Frame(filename = "NULL")
```

Arguments

```
filename
```

Value

GSEA.NormalizeCols

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
## Not run:
##Run.GSEA()

## End(Not run)
```

GSEA.Threshold *GSEA.Threshold*

Description

GSEA.Threshold

Usage

```
GSEA.Threshold(V, thres, ceil)
```

Arguments

V
thres
ceil

Value

GSEA.Threshold

Examples

```
## Load workspace
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
## Not run:

##Run.GSEA()

## End(Not run)
```

GSEA.VarFilter *GSEA.VarFilter*

Description

GSEA.VarFilter

Usage

```
GSEA.VarFilter(V, fold, delta, gene.names = "NULL")
```

Arguments

V
fold
delta
gene.names

Value

GSEA.VarFilter

Examples

```
## Load workspace
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
## Not run:
##Run.GSEA()

## End(Not run)
```

GSEA.write.gct *GSEA.write.gct*

Description

GSEA.write.gct

Usage

```
GSEA.write.gct(gct, filename)
```

Arguments

gct

filename

Value

GSEA.Write.gct

Examples

```
## Load workspace
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
## Not run:

##Run.GSEA()

## End(Not run)
```

Match_GeneList_MSigDB *Search MSigDb that overlap gene list*

Description

Search MSigDb that overlap gene list

Usage

```
Match_GeneList_MSigDB
```

Value

GeneList

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/prad_michPhenoTest1021.rds", sep=""))
## Not run:
Match_GeneList_MSigDB()

## End(Not run)
```

---

modalDialog *Dialog box to specify Gene Symbol.*

Description

Dialog box to specify Gene Symbol.

Usage

```
modalDialog(title, question, entryInit, entryWidth = 40,returnValOnCancel = "ID_CANCEL")
```

Arguments

title	string
question	string
entryInit	entryInit
entryWidth	40
returnValOnCancel	"ID_CANCEL"

Value

dialog box

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/brca_tcga73genes.rds", sep=""))
## Select Case from Breast Cancer
ENV <- new.env(parent = emptyenv())
ENV$curselectCases <- 9
##Select Genetic Profile from Breast Cancer
ENV$curselectGenProfs <- 4
## get Specific Mutation data for 73 Genes list
## Not run:
getProfilesDataSingleGene()

## End(Not run)
```

`myGlobalEnv` *myGlobalEnv*

Description

Global environment to store canceR variables.

Format

The format is: <environment: 0xb3eb240>

Examples

```
myGlobalEnv <- new.env(parent = emptyenv())
```

`OLD.GSEA.EnrichmentScore` *OLD.GSEA.EnrichmentScore*

Description

OLD.GSEA.EnrichmentScore

Arguments

`gene.list`

`gene.set`

Value

OLD.GSEA.EnchmentScore

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
## Not run:
##Run.GSEA()

## End(Not run)
```

plot_1Gene_2GenProfs *Plotting two genetic profiles for one Gene*

Description

Plotting two genetic profiles for one Gene

Usage

```
plot_1Gene_2GenProfs()
```

Value

plot

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/gbm_tcgaPlotTwoGenProf.rds", sep=""))
## Not run:
plot_1Gene_2GenProfs()

## End(Not run)
```

plot_2Genes_1GenProf *plot correlation of two genes expressions.*

Description

plot correlation of two genes expressions.

Usage

```
plot_2Genes_1GenProf()
```

Value

plot

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
## Not run:
plot_2Genes_1GenProf()

## End(Not run)
```

plotModel *model plotting with tcltk*

Description

model plotting with tcltk

Usage

```
plotModel(plotCommand, title= "TITLE",hscale=1, vscale=1 )
```

Arguments

plotCommand	plotcommand
title	title of plot
hscale	horizintal scale
vscale	vertical scale

Value

plot

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/gbm_tcgaPlotTwoGenProf.rds", sep=""))
## Not run:
plot_1Gene_2GenProfs()

## End(Not run)
```

rbind.na *bind non equal row*

Description

bind non equal row

Usage

```
rbind.na(..., deparse.level = 1)
```

Arguments

...	(generalized) vectors or matrices.
deparse.level	integer controlling the construction of labels in the case of non-matrix-like arguments (for the default method): deparse.level = 0 constructs no labels; the default, deparse.level = 1 or 2 constructs labels from the argument names.

Value

a data frame with merged rows

Examples

```
## Not run:
row1 <- c("a","b","c","d")
row2 <- c("A", "B", "C")
row3 <- rbind.na(row1, row2)

## End(Not run)
```

Run.GSEA *The main function to run GSEA-R from Broad Institute*

Description

The main function to run GSEA-R from Broad Institute

Usage

```
Run.GSEA()
```

Value

A vector with sampling size

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/ucec_tcga_pubGSEA1021.rds", sep=""))
## Not run:
Run.GSEA()

## End(Not run)
```

---

setWorkspace *Setting work Directory and output folders.At starting window, user needs to set work directory for output data. The function is foud in File menu.*

Description

Setting work Directory and output folders.At starting window, user needs to set work directory for output data. The function is foud in File menu.

Usage

```
setWorkspace()
```

Value

paths of output files

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/brca_tcga73genes.rds", sep=""))
## Not run:
setWorkspace()

## End(Not run)
```

---

test.CGDS *S3 method to test cBioPortal connection*

Description

S3 method to test cBioPortal connection

Usage

```
## S3 method for class 'CGDS'
test(x, ...)
```

Arguments

x	connection object
...	not used

---

testCheckedCaseGenProf *Testing checked appropriate Cases for appropriate Genetic profiles.*

Description

Testing checked appropriate Cases for appropriate Genetic profiles.

Usage

```
testCheckedCaseGenProf(singleGene=0)
```

Arguments

singleGene	specify if the check for querying genetic profile for a specific gene or not (0,1).

Value

dialog box with warning message

Examples

```
readRDS(paste(path.package("canceR"),"/extdata/rdata/brca_tcga73genes.rds", sep=""))
## Not run:
testCheckedCaseGenProf(singleGene=0)

## End(Not run)
```

UnifyRowNames *Unify row names in data frame with the same order of gene list.*

Description

Unify row names in data frame with the same order of gene list.

Usage

```
UnifyRowNames(x,geneList)
```

Arguments

x	data frame with gene symbol in the row name
geneList	a gene list

Value

a data frame having the gene in row name ordered as in gene list.

Examples

```
cgds <- cBioPortal(
hostname = "www.cbioportal.org",
protocol = "https",
api = "/api/v2/api-docs"
)
## Not run:
getDataByGenes( api =  cgds,
studyId = "gbm_tcga_pub",
genes = c("NF1", "TP53", "ABL1"),
by = "hugoGeneSymbol",
molecularProfileIds = "gbm_tcga_pub_mrna"
)
```

```
## End(Not run)
```

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