

Package ‘multiMiR’

March 28, 2026

Title Integration of multiple microRNA-target databases with their disease and drug associations

Version 1.32.0

Description A collection of microRNAs/targets from external resources, including validated microRNA-target databases (miRecords, miRTarBase and TarBase), predicted microRNA-target databases (DIANA-microT, EIMMo, MicroCosm, miRanda, miRDB, PicTar, PITA and TargetScan) and microRNA-disease/drug databases (miR2Disease, Pharmaco-miR VerSe and PhenomiR).

URL <https://github.com/KechrisLab/multiMiR>

BugReports <https://github.com/KechrisLab/multiMiR/issues>

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add.multimir.links	<i>Add External Database Link for Each of the multiMiR Result Entry</i>
--------------------	-------------------------------------------------------------------------

Description

This is an internal multiMiR function that is not intended to be used directly. Please use `get_multimir`.

Usage

```
add.multimir.links(x, org)
```

Arguments

x	table/dataset returned by multimir db
org	Organism (see <code>get_multimir</code>)

Value

The input data frame `x` with a column added for the external database links.

all_tables	<i>Functions defining the category each table belongs to.</i>
------------	---------------------------------------------------------------

Description

One of three types: predicted, validated, or diseasedrug. Additionally two functions define characteristics of tables: those without a target column `tables_wo_target` and those with conserved target sites `conserved_tables`.

Usage

```
all_tables()
validated_tables()
predicted_tables()
diseasedrug_tables()
tables_wo_target()
conserved_tables()
reverse_table_lookup(.table)
table_types()
```

Arguments

```
.table      a table name
```

Value

Returns dataset that names that belong to the category of the function name (e.g. `validated_tables()` returns tables with validated miRNA-target interactions). `reverse_table_lookup()` does the opposite; it returns the category a given `.table` belongs to.

Examples

```
all_tables()
validated_tables()
predicted_tables()
diseasedrug_tables()
predicted_tables() %in% all_tables() # TRUE
table_types()
```

as.mmquery	<i>S3 constructor and methods for object returned by get_multimir().</i>
------------	--------------------------------------------------------------------------

Description

This package's primary user-facing object. Contains the SQL statement and the returned data query, as well as a summary table depending on specified option.

Usage

```
as.mmquery(a_list)

## S3 method for class 'mmquery'
print(x)
```

Value

An mmquery object.

as_mmsql_components	<i>S3 Class constructors for objects defining SQL query components and a collection of these parts (mmsql_components).</i>
---------------------	----------------------------------------------------------------------------------------------------------------------------

Description

The collection object has a defined set of components that match the multiMiR database and defined options in `get_multimir()`. Conceptually this is split into two parts, the relatively straightforward SELECT, FROM, and ON portion of the query and the more complex filtering and sorting operations: WHERE and ORDER BY. The latter have their own classes, the former are resolved as strings (or character vectors) in the functions defining handling of each sql table (sql_ prefix).

Usage

```
as_mmsql_components(.select = NULL, .from = NULL, .on = NULL,
  .where_list = NULL, .orderby = NULL, typeattr = NULL)

as_where_list(...)

as_where(.vars, .connect = NULL, .operator, .value = "%s")

is_where(x)

as_orderby(.vars, .order)
```

Value

as_mmsql_components: A collection of components that make up a SQL query. as_where_list, as_where, as_orderby: Individual components of a SQL query.

build_mmysql	<i>Constructors for parts of SQL queries Expand_query converts a mmyquery object to a SQL query string</i>
--------------	------------------------------------------------------------------------------------------------------------

Description

Constructors for parts of SQL queries Expand_query converts a mmyquery object to a SQL query string

Usage

```
build_mmysql(.table, org, mirna = NULL, target = NULL, disease.drug = NULL,
  predicted.site = NULL, predicted.cutoff.type = NULL,
  predicted.cutoff = NULL, limit = NULL)
```

```
expand_query(x)
```

```
expand_select(x)
```

```
expand_from(x)
```

```
expand_on(x)
```

```
expand_where_list(x)
```

```
expand_where(x)
```

```
expand_orderby(x)
```

```
expand_limit(x)
```

```
merge_order(.list)
```

Value

A complete SQL statement and related information.

default_cutoff	<i>If null, set default predicted.cutoff</i>
----------------	----------------------------------------------

Description

If null, set default predicted.cutoff

Usage

```
default_cutoff(predicted.cutoff.type, predicted.cutoff)
```

Value

The default cutoff value.

deprecate_arg	<i>Internal function for sending deprecation messages</i>
---------------	-----------------------------------------------------------

Description

Internal function for sending deprecation messages

Usage

```
deprecate_arg(name = c("url", "schema.file", "db.tables", "cutoff.file"))
```

Arguments

name	Name of a deprecated function argument.
------	-----------------------------------------

Value

A message indicating deprecated arg and new version.

extract_mmquery	<i>Creates all objects needed for the legacy S3 return object and the new S4 object.</i>
-----------------	------------------------------------------------------------------------------------------

Description

Creates all objects needed for the legacy S3 return object and the new S4 object.

Usage

```
extract_mmquery(outlist, org, .args, summary = FALSE, use.tibble = FALSE)
```

Value

A list of data queried, summary of results, and related input parameters.

a list for packaging by `as.mmquery` and `as.mmquery_bioc`

get.multimir.cutoffs *Load Pre-calculated Prediction Score Cutoffs in the multiMiR Package*

Description

This is an internal multiMiR function that is not intended to be used directly. Please set prediction score cutoff in `get_multimir`.

Usage

```
get.multimir.cutoffs(name = NULL, cutoff.file = NULL)
```

Arguments

`cutoff.file` Deprecated. Set path to cutoffs file with the global option `multimir.cutoffs`.

Value

Cutoff values object from remote database.

get_multimir *Get microRNA-target Interactions from the multiMiR Package*

Description

The main function to retrieve predicted and validated miRNA-target interactions and their disease and drug associations from the multiMiR package.

Usage

```
get_multimir(url = NULL, org = "hsa", mirna = NULL, target = NULL,
  disease.drug = NULL, table = "validated", predicted.cutoff = NULL,
  predicted.cutoff.type = "p", predicted.site = "conserved",
  summary = FALSE, add.link = FALSE, use.tibble = FALSE, limit = NULL,
  legacy.out = FALSE)
```

```
get.multimir(url = NULL, org = "hsa", mirna = NULL, target = NULL,
  disease.drug = NULL, table = "validated", predicted.cutoff = NULL,
  predicted.cutoff.type = "p", predicted.site = "conserved",
  summary = FALSE, add.link = FALSE, use.tibble = FALSE, limit = NULL)
```

Arguments

`url` Deprecated. The URL for queries is now defined by the package options `multimir.url` and `multimir.queries`.

`org` a character string for the organism. Three organisms are supported so far: human ("hsa" (default), "human", or "Homo Sapiens"), mouse ("mmu", "mouse", or "Mus musculus"), and rat ("rno", "rat", or "Rattus norvegicus"). The organism is case insensitive.

mirna	'NULL' (default) or a character string or character vector for the mature miRNA(s). It can be the mature miRNA accession number (i.e. "MIMAT0000072"), mature miRNA ID (i.e. "hsa-miR-199a-3p"), or a combination of both (i.e. c("MIMAT0000065", "hsa-miR-30a-5p")). The character is case insensitive. *See note about the length of list supported.
target	'NULL' (default) or a character string or character vector for the target gene(s). It can be the gene symbol (i.e. c("TP53", "KRAS")), Entrez gene ID (i.e. c(578, 3845)), Ensembl gene ID (i.e. "ENSG00000171791"), or a combination of any of these identifiers (i.e. c("TP53", 3845, "ENSG00000171791")). The character is case insensitive. *See note about the length of list supported.
disease.drug	'NULL' (default) or a character string or character vector for the disease(s) and/or drug(s) (i.e. c("bladder cancer", "cisplatin")). The character is case insensitive.
table	a character string indicating which table(s) in multiMiR to search. Each table contains data from an external database. Options include "validated" (default, to search all validated tables "mirecords", "mirtarbase", and "tarbase"), "predicted" (to search all predicted tables "diana_microt", "elmno", "microcosm", "miranda", "mirdb", "pictar", "pita", and "targetscan"), "disease.drug" (to search all disease/drug tables "mir2disease", "pharmaco_mir", and "phenomir"), "all" (to search all of the tables above), or an individual table from above.
predicted.cutoff	'NULL' (default) or an integer giving a prediction score cutoff. By default ('NULL'), the cutoff is '20' (search the top 20% if predicted.cutoff.type="p") or '300000' (search the top 300000 (or all records if total < 300000) if predicted.cutoff.type="n")
predicted.cutoff.type	a character indicating the type of prediction score cutoff. This must be either "p" (default, percentage cutoff) or "n" (number cutoff).
predicted.site	a character string indicating the type of predicted target sites to search. This can be one of the strings "conserved", "nonconserved", or "all", and can be abbreviated. This only applies to three of the predicted tables ("miranda", "pita", and "targetscan") that have conservation information of the target sites.
summary	logical. Whether to summarize the result (default = FALSE).
add.link	logical. Whether to add link to external database for each result entry.
use.tibble	logical. Whether to use the data_frame class from the tibble package for returned dataframes. The key benefit for large datasets is more restrictive printing to the console (first 10 rows and only the number of columns that will fitgetOption('width')). See ?tibble::data_frame for more information.
limit	a positive integer. Limits the number of records returned from each table. Useful in testing potentially large queries.
legacy.out	logical. Whether to return the Bioconductor compatible S4 object or the legacy S3 object (default=FALSE).

Details

get.multimir() has been deprecated and replaced with the get_multimir() version.

get_multimir is the main and recommended function to retrieve information from the multiMiR package. Input to the function must contain at least one of the followings: miRNA(s), target gene(s), and disease and drug term(s).

The setting of `predicted.site` is applicable to three ("miranda", "pita", and "targetscan") of the eight predicted tables. If `predicted.site` is "conserved", the function will search conserved target sites annotated by TargetScan, target sites with conservation scores greater than or equal to 0.57 (in human and rat; or 0.566 in mouse) in miRanda, and/or sites with conservation scores greater than or equal to 0.9 in PITA.

Although the `summary` (if `summary=TRUE`) can be used to find results that are recorded by combinations of different databases, please note that for predicted interactions a combination approach may not be as effective as a single algorithm because of age or quality of the tool.

Note: The length of the list supported has been increased from version 1.0.1. The size is now limited to 20MB which should accommodate most requests. There is a possibility for technical reasons that the query could fail even if the list is under this limit. If this occurs it is recommended that you break up the list into smaller batches and submit them sequentially.

Value

`get_multimir` returns an S4 object (see `?mmquery_bioc-class` containing the queried data and associated metadata. With `legacy.out=FALSE` (default), the data is a single dataset with association/interaction type defined by the `type` variable. With `legacy.out=TRUE` the original S3 object with 3 separate data frames ('predicted', 'validated', and 'disease_drug') is returned.

Examples

```
## search 'hsa-miR-18a-3p' in validated interactions in human
example1 <- get_multimir(mirna='hsa-miR-18a-3p', summary=TRUE)
columns(example1)
## target genes that are validated by Luciferase assay
lucif <- select(example1, keytype = "type", keys = "validated",
               columns = columns(example1))
lucif[grep("Luciferase", lucif$experiment), ]
example1@summary[example1@summary[, "target_symbol"] == "KRAS", ]

## search 'cisplatin' in disease and drug tables in human
example2 <- get_multimir(disease.drug='cisplatin', table='disease.drug')
nrow(example2@data)
head(example2@data)
```

list_multimir

List microRNAs, Genes, Drugs Or Diseases in the multiMiR Package

Description

`list_multimir` lists all the unique microRNAs, target genes, drugs, or diseases in the web server of the multiMiR package.

Usage

```
list_multimir(x = c("mirna", "gene", "drug", "disease"), limit = NULL,
              url = NULL)

list.multimir(x = c("mirna", "gene", "drug", "disease"), limit = NULL,
              url = NULL)
```

Arguments

<code>x</code>	a character string indicating what to list. This must be one of the strings "mirna" (default), "gene", "drug", or "disease". This can be abbreviated and is case insensitive.
<code>limit</code>	a positive integer. Limits the number of records returned from each table. Useful in testing potentially large queries.
<code>url</code>	Deprecated. Use global option <code>multimir.url</code> instead.

Details

`list.multimir()` has been deprecated and replaced with the `list_multimir()` version.

Value

`list_multimir` returns a data frame with information of microRNAs (microRNA unique ID, organism, mature microRNA accession number, and mature microRNA ID), target genes (gene unique ID, organism, gene symbol, Entrez gene ID, and Ensembl gene ID), drugs (drug names), and diseases (disease name).

Author(s)

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Examples

```
mirnas <- list_multimir("mirna", limit = 10)
genes <- list_multimir("gene", limit = 10)
drugs <- list_multimir("drug", limit = 10)
diseases <- list_multimir("disease", limit = 10)
```

`mmquery_bioc-class` *S4 constructor and methods for object returned by `get_multimir()`.*

Description

This package's primary user-facing object. Contains the SQL statement and the returned data query, as well as a summary table depending on specified option. Note that the returned data is now contained in a single dataframe. To filter to a specific type of association or interaction, select on the type variable.

Usage

```
as.mmquery_bioc(.list)

## S4 method for signature 'mmquery_bioc'
columns(x)

## S4 method for signature 'mmquery_bioc'
keys(x, keytype, ...)

## S4 method for signature 'mmquery_bioc'
```

```

keytypes(x)

## S4 method for signature 'mmquery_bioc'
select(x, keys, columns, keytype, ...)

## S4 method for signature 'mmquery_bioc'
show(object)

```

Arguments

<code>.list</code>	a list of returned dataframes, summary
<code>x, object</code>	An <code>mmquery_bioc</code> object.
<code>keytype</code>	allows the user to discover which keytypes can be passes in to select or keys and the keytype argument
<code>...</code>	additional arguments
<code>keys</code>	A result of the <code>keys()</code> function. For the <code>mmquery_bioc</code> class this is a character vector of microRNA's in the returned <code>mmquery_bioc</code> object.
<code>columns</code>	lists the columns that can be returned for the <code>mmquery_bioc</code> object.

Value

an s4 object of class `mmquery_bioc`. Contains queried data, a summary dataset, and associated input parameters.

Slots

<code>data</code>	A dataframe containing validated and predicted microRNA-target interactions and disease/drug associations found.
<code>queries</code>	A list of queries submitted to the multiMiR SQL server.
<code>summary</code>	A summary dataframe of the returned microRNA dataframes
<code>tables</code>	A character vector of the microRNA relationship types returned (validated, predicted, disease.drug, or all).
<code>org</code>	The selected organism (hsa/human, mmu/mouse, rno/rat).
<code>predicted.cutoff</code>	An integer giving a prediction score cutoff.
<code>predicted.cutoff.type</code>	A character indicating the type of prediction score cutoff (p = percentage, n = number, character() = none)
<code>predicted.site</code>	A character string indicating the type of predicted target sites to searched.

multiMiR

MultiMiR: R package for accessing the multiMiR database

Description

This package provides an interface to the multiMiR database of microRNA-target interactions, and disease and drug associations. See <http://multimir.org> and the vignette ('multiMiR') for more details.

References

[Add reference here]

multimir.summary	<i>Summarize microRNA/target Information from the multiMiR Package</i>
------------------	------------------------------------------------------------------------

Description

This is an internal multiMiR function that is not intended to be used directly. Please use `get_multimir`.

Usage

```
multimir.summary(result, pair.index = 2:6, order.by = "all.sum")
```

Arguments

result	PLACEHOLDER
pair.index	PLACEHOLDER
order.by	PLACEHOLDER

Value

Summary of objects queries from database

multimir_dbInfo	<i>Collect Information About the Web Server And Database of the multi-MiR Package</i>
-----------------	---------------------------------------------------------------------------------------

Description

Functions for collecting and displaying information about the web server and database of the multiMiR package.

Usage

```
multimir_dbInfo(url = NULL)
multimir_dbInfoVersions(url = NULL)
multimir_dbSchema(schema.file = NULL)
multimir_dbTables(url = NULL)
multimir_dbCount(url = NULL)
```

Arguments

url	Deprecated. Use global option <code>multimir.url</code> instead.
schema.file	Deprecated. Option exists as <code>multimir.schema</code> , but it should not need to be set directly.

Details

multimir.url is a global option containing the URL of the multiMiR web server. Set using `options("multimir.url" = ...)`

multimir_dbCount returns counts of records in the tables in the multiMiR database. Each table contains data from an external miRNA/target database.

multimir_dbInfo returns other information about the multiMiR database. This includes information of external miRNA/target databases in multiMiR.

multimir_dbInfoVersions returns other information about the multiMiR database versions available. This provides a list of available options if switching to previous version is desired.

multimir_dbSchema prints the schema definition of the multiMiR database.

multimir_dbTables returns the vector of tables in the multiMiR database and saves it to the global option `multimir.tables.list`. This function is automatically run when `get_multimir` is called if the `multimir.tables.list` is NULL.

Value

multimir_dbCount: a data frame with the count of records in each of the tables in the multiMiR database.

multimir_dbInfo: a data frame with information about the multiMiR database.

multimir_dbInfoVersions: a data frame with information about the multiMiR database versions.

multimir_dbSchema: none (invisible NULL).

multimir_dbTables: a data frame with table names in the multiMiR database.

Examples

```
this_url <- getOption("multimir.url")
this_url
options(multimir.url = this_url)

db_ver <- multimir_dbInfoVersions()

db_count <- multimir_dbCount()

db_info <- multimir_dbInfo()

multimir_dbSchema()

db_tables <- multimir_dbTables()
```

multimir_switchDBVersion

Manage Database Version to use

Description

Functions for managing the database version used to complete requests on the web server.

Usage

```
multimir_switchDBVersion(db_version, url = NULL)
```

Arguments

`db_version` A character string containing the full version number for the database version to use for for all package functions. The default will be the most recent version.

`url` Deprecated. Use global option `multimir.url` instead.

Details

`url` is a character string containing the URL of the multiMiR web server. Optional as it is set when the package is loaded.

`multimir_dbInfoVersions` returns other information about the multiMiR database versions available. This provides a list of available options if switching to previous version is desired.

`multimir_switchDBVersion` returns other information about the multiMiR database versions available. This provides a list of available options if switching to previous version is desired.

Value

`multimir_dbInfoVersions`: a data frame with information about the multiMiR database versions.
`multimir_switchDBVersion`: none (invisible NULL).

Examples

```
multimir_dbInfoVersions()
multimir_switchDBVersion(db_version="2.0.0")
```

null_to_df

Replace nulls with an empty object of each type

Description

Replace nulls with an empty object of each type

Usage

```
null_to_df(x)
```

```
null_to_num(x)
```

```
null_to_char(x)
```

Arguments

`x` input object

Value

an empty data.frame, numeric, or character vector.

pad	<i>Pad single space on each side of an input</i>
-----	--------------------------------------------------

Description

Pad single space on each side of an input

Usage

pad(x)

Value

Input value wrapped in single spaces.

parens_quote	<i>Prep certain names for use in SQL query by adding parens</i>
--------------	-----------------------------------------------------------------

Description

Prep certain names for use in SQL query by adding parens

Usage

parens_quote(x)

Value

The input value wrapped in quotes and then parentheses.

parens_wrap	<i>Collapse a vector to a single comma-separated string and wrap in parentheses</i>
-------------	-------------------------------------------------------------------------------------

Description

Collapse a vector to a single comma-separated string and wrap in parentheses

Usage

parens_wrap(x)

Value

The input vector converted to a comma-separated string wrapped in parentheses.

parse_orgs	<i>Each org can be specified in one of 3 ways – this standardizes the argument into the 3 char abbreviation.</i>
------------	------------------------------------------------------------------------------------------------------------------

Description

Each org can be specified in one of 3 ways – this standardizes the argument into the 3 char abbreviation.

Usage

```
parse_orgs(org)
```

Value

A standardized, abbreviated form of the input org.

parse_response	<i>Parse the Result Returned by the multiMiR Web Server</i>
----------------	-------------------------------------------------------------

Description

This is an internal multiMiR function that is not intended to be used directly. Please use `get_multimir`.

Usage

```
parse_response(HTML.response)
```

Value

The queried table portion of the HTML response.

query_multimir	<i>Wrapper for search_multimir for adding feature (printing notification to console)</i>
----------------	------------------------------------------------------------------------------------------

Description

Wrapper for `search_multimir` for adding feature (printing notification to console)

Usage

```
query_multimir(x, org, add.link, use.tibble)
```

Value

The queried multimir data with the addition of a requested feature.

quote_wrap	<i>Internal function for adding single quotes around a string</i>
------------	-------------------------------------------------------------------

Description

Internal function for adding single quotes around a string

Usage

```
quote_wrap(x)
```

Arguments

x a string to be wrapped in single quotes.

Value

The input wrapped in single quotes.

remove_empty_strings	<i>Remove empty strings from character vector.</i>
----------------------	----------------------------------------------------

Description

The WHERE clauses for target and mirna use allow for multiple arguments always separated by 'OR' and several columns are checked for each value (mirna id, acc; target symbol, entrez, ensemble). If empty strings "" are present in the get_multimir arguments, Targets and miRNA with empty values in one of these columns will be incorrectly returned. – thus purge empty strings first.

Usage

```
remove_empty_strings(x)
```

Arguments

x A character vector

Value

A character vector with empty strings removed

remove_table	<i>Remove tables x from a vector of table names.</i>
--------------	------------------------------------------------------

Description

Typically used when a set of arguments don't apply to a table or would return an error/empty response

Usage

```
remove_table(tables, x)
```

Arguments

tables	A character vector.
x	A second character vector to remove from the first (tables).

Value

Character vector tables excluding the strings matching those in x.

search_multimir	<i>Search the multiMiR Database Given a MySQL Query</i>
-----------------	---------------------------------------------------------

Description

This is a function for directly querying the multiMiR database with MySQL queries. Given a MySQL query, it searches and retrieves result from the multiMiR database on the multiMiR web server. To use search_multimir directly, users will need to be familiar with MySQL and multiMiR table structures. Users are advised to use get_multimir instead.

Usage

```
search_multimir(query)
```

```
search.multimir(query)
```

Arguments

query	a character string for the MySQL query.
-------	-----------------------------------------

Details

search.multimir() has been deprecated and replaced with the search_multimir() version.

Value

search_multimir returns a data frame containing results from the multiMiR web server.

Examples

```
## show all tables in the multiMiR database
tables <- search_multimir(query="show tables")

## show the structure of table diana_microt
microt <- search_multimir(query="describe diana_microt")

## search for validated target genes of hsa-miR-18a-3p in miRecords
qry <- paste("SELECT m.mature_mirna_acc, m.mature_mirna_id,",
            "      t.target_symbol, t.target_entrez, t.target_ensembl,",
            "      i.experiment, i.support_type, i.pubmed_id",
            "FROM mirna AS m INNER JOIN mirecords AS i INNER JOIN target",
            "AS t ON (m.mature_mirna_uid=i.mature_mirna_uid AND",
            "      i.target_uid=t.target_uid)",
            "WHERE m.mature_mirna_id='hsa-miR-18a-3p'")
result <- search_multimir(query = qry)
```

split_by

*Split, order and sort lists by their components.***Description**

Copied from purrr:v0.2.2

Usage

split_by(.x, .f, ...)

Arguments

.x A list or atomic vector.
.f A function, formula, or atomic vector.
... Additional arguments passed on to .f.

Value

A list split by .f

sql_org

*Functions defining the WHERE clauses.***Description**

Functions defining filtering by organism (org), disease/drug, conserved, and cutoff. Filtering by mirna and target are defined within their sql_... functions.

Usage

```

sql_org(.table, org)

where_org(.table, org)

where_diseasedrug(.table, disease.drug)

where_conserved(.table, org, predicted.site)

where_cutoff(.table, score_var, score_cutoff)

create_cutoff_name(.table, org, predicted.site)

cutoff_to_score(.table, cutoff_name, predicted.cutoff.type, predicted.cutoff)

```

Value

The WHERE portion of a SQL query

sql_validated	<i>Generate mmsql_components objects for each of the three types of tables, as well as the mirna and target tables.</i>
---------------	-------------------------------------------------------------------------------------------------------------------------

Description

The three types of tables are predicted, validated, and diseasedrug (disease/drug). Additionally, mirna and target portions of the SQL statements are defined, including their filter clauses (WHERE).

Usage

```

sql_validated(.table)

sql_predicted(.table, org, predicted.site, predicted.cutoff.type,
  predicted.cutoff)

sql_diseasedrug(.table, disease.drug)

sql_mirna(mirna)

sql_target(.table, target)

```

Value

Components of a SQL query specific to each table type.

`submit_request`*General workhorse function for submitting and returning queries*

Description

This is an internal multiMiR function that is not intended to be used directly. Please use `get_multimir`.

Usage

```
submit_request(url = full_url("multimir.queries"), query, ...)
```

Value

Table requested in query.

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