

# Package ‘MicrobiomeProfiler’

June 5, 2026

**Title** An R/shiny package for microbiome functional enrichment analysis

**Version** 1.19.1

## Description

This is an R/shiny package to perform functional enrichment analysis for microbiome data. This package was based on clusterProfiler. Moreover, MicrobiomeProfiler support KEGG enrichment analysis, COG enrichment analysis, Microbe-Disease association enrichment analysis, Metabo-Pathway analysis.

**License** GPL-2

**Depends** R (>= 4.2.0)

**Imports** clusterProfiler (>= 4.5.2), enrichit, config, DT, enrichplot, golem, gson, methods, magrittr, shiny (>= 1.6.0), shinyWidgets, shinycustomloader, htmltools, ggplot2, graphics, stats, utils, yulab.utils

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**URL** <https://github.com/YuLab-SMU/MicrobiomeProfiler/>,  
<https://yulab-smu.top/contribution-knowledge-mining/>

**BugReports** <https://github.com/YuLab-SMU/MicrobiomeProfiler/issues>

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**Author** Guangchuang Yu [cre, aut] (ORCID:  
<<https://orcid.org/0000-0002-6485-8781>>),  
Meijun Chen [aut] (ORCID: <<https://orcid.org/0000-0003-2486-8106>>)

**Maintainer** Guangchuang Yu <[guangchuangyu@gmail.com](mailto:guangchuangyu@gmail.com)>

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MicrobiomeProfiler-package

*MicrobiomeProfiler: An R/shiny package for microbiome functional enrichment analysis*

---

## Description

This is an R/shiny package to perform functional enrichment analysis for microbiome data. This package was based on clusterProfiler. Moreover, MicrobiomeProfiler support KEGG enrichment analysis, COG enrichment analysis, Microbe-Disease association enrichment analysis, Metabo-Pathway analysis.

## Author(s)

**Maintainer:** Guangchuang Yu <guangchuangyu@gmail.com> ([ORCID](#))

Authors:

- Meijun Chen <mjchen1996@outlook.com> ([ORCID](#))

**See Also**

Useful links:

- <https://github.com/YuLab-SMU/MicrobiomeProfiler/>
- <https://yulab-smu.top/contribution-knowledge-mining/>
- Report bugs at <https://github.com/YuLab-SMU/MicrobiomeProfiler/issues>

---

enrichCOG

*COG enrichment analysis for microbiome data*

---

**Description**

COG enrichment analysis for microbiome data

**Usage**

```
enrichCOG(  
  gene,  
  dtype = "category",  
  pvalueCutoff = 0.05,  
  pAdjustMethod = "BH",  
  universe = NULL,  
  minGSSize = 10,  
  maxGSSize = 500,  
  qvalueCutoff = 0.2  
)
```

**Arguments**

gene	a vector of COG ids.
dtype	one of "category", "pathway"
pvalueCutoff	adjusted pvalue cutoff on enrichment tests to report.
pAdjustMethod	one of "holm", "hochberg", "hommel", "bonferroni", "BH", "BY", "fdr", "none".
universe	universe background genes. If missing, use the all COGs.
minGSSize	minimal size of genes annotated by KEGG term for testing.
maxGSSize	maximal size of genes annotated for testing.
qvalueCutoff	qvalue cutoff on enrichment tests to report.

**Value**

A enrichResult instance.

**Examples**

```
data(Psoriasis_data)  
cog <- enrichCOG(Psoriasis_data, dtype="category")
```

---

enrichHMDB

*Metabolism enrichment analysis for microbiome data*

---

## Description

Metabolism enrichment analysis for microbiome data

## Usage

```
enrichHMDB(  
  metabo_list,  
  pvalueCutoff = 0.05,  
  pAdjustMethod = "BH",  
  universe = NULL,  
  minGSSize = 10,  
  maxGSSize = 500,  
  qvalueCutoff = 0.2  
)
```

## Arguments

<code>metabo_list</code>	a vector of metabolites in HMDB.ID
<code>pvalueCutoff</code>	adjusted pvalue cutoff on enrichment tests to report.
<code>pAdjustMethod</code>	one of "holm", "hochberg", "hommel", "bonferroni", "BH", "BY", "fdr", "none".
<code>universe</code>	universe background genes. If missing, use HMDB db.
<code>minGSSize</code>	minimal size of genes annotated by KEGG term for testing.
<code>maxGSSize</code>	maximal size of genes annotated for testing.
<code>qvalueCutoff</code>	qvalue cutoff on enrichment tests to report.

## Value

A `enrichResult` instance.

## Examples

```
x1 <- c("HMDB0000001", "HMDB0000005", "HMDB0000008")  
x2 <- enrichHMDB(x1)
```

---

enrichKO	<i>KO enrichment for microbiome data</i>
----------	--

---

## Description

KO enrichment for microbiome data

## Usage

```
enrichKO(  
  gene,  
  pvalueCutoff = 0.05,  
  pAdjustMethod = "BH",  
  universe = NULL,  
  minGSSize = 10,  
  maxGSSize = 500,  
  qvalueCutoff = 0.2  
)
```

## Arguments

gene	a vector of K gene id (e.g. K00001) or EC id (e.g. 1.1.1.27).
pvalueCutoff	adjusted pvalue cutoff on enrichment tests to report.
pAdjustMethod	one of "holm", "hochberg", "hommel", "bonferroni", "BH", "BY", "fdr", "none".
universe	universe background genes. If missing, use all K genes.
minGSSize	minimal size of genes annotated by KEGG term for testing.
maxGSSize	maximal size of genes annotated for testing.
qvalueCutoff	qvalue cutoff on enrichment tests to report.

## Value

A enrichResult instance.

## Examples

```
data(Rat_data)  
ko <- enrichKO(Rat_data)  
head(ko)
```

---

`enrichMBKEGG`*Metabolism enrichment analysis for microbiome data*

---

## Description

Metabolism enrichment analysis for microbiome data

## Usage

```
enrichMBKEGG(  
  metabo_list,  
  pvalueCutoff = 0.05,  
  pAdjustMethod = "BH",  
  universe = NULL,  
  minGSSize = 10,  
  maxGSSize = 500,  
  qvalueCutoff = 0.2  
)
```

## Arguments

<code>metabo_list</code>	a vector of metabolites in KEGG.ID
<code>pvalueCutoff</code>	adjusted pvalue cutoff on enrichment tests to report.
<code>pAdjustMethod</code>	one of "holm", "hochberg", "hommel", "bonferroni", "BH", "BY", "fdr", "none".
<code>universe</code>	universe background genes. If missing, use KEGG as default.
<code>minGSSize</code>	minimal size of genes annotated by KEGG term for testing.
<code>maxGSSize</code>	maximal size of genes annotated for testing.
<code>qvalueCutoff</code>	qvalue cutoff on enrichment tests to report.

## Value

A `enrichResult` instance.

## Examples

```
mblist3 <- c("C00019", "C00020", "C00022")  
mb3 <- enrichMBKEGG(mblist3)  
head(mb3)
```

---

`enrichMDA`*Microbe-Disease associations enrichment analysis*

---

## Description

Microbe-Disease associations enrichment analysis

## Usage

```
enrichMDA(  
  microbe_list,  
  pvalueCutoff = 0.05,  
  pAdjustMethod = "BH",  
  universe = NULL,  
  minGSSize = 10,  
  maxGSSize = 500,  
  qvalueCutoff = 0.2  
)
```

## Arguments

<code>microbe_list</code>	a vector of microbe ncbi tax ids.
<code>pvalueCutoff</code>	adjusted pvalue cutoff on enrichment tests to report.
<code>pAdjustMethod</code>	one of "holm", "hochberg", "hommel", "bonferroni", "BH", "BY", "fdr", "none".
<code>universe</code>	universe background genes. If missing, use disbiome as default.
<code>minGSSize</code>	minimal size of genes annotated by KEGG term for testing.
<code>maxGSSize</code>	maximal size of genes annotated for testing.
<code>qvalueCutoff</code>	qvalue cutoff on enrichment tests to report.

## Value

A `enrichResult` instance.

## Examples

```
data(microbiota_taxlist)  
mda <- enrichMDA(microbiota_taxlist)  
head(mda)
```

---

enrichModule	<i>Module enrichment for microbiome data</i>
--------------	--

---

## Description

Module enrichment for microbiome data

## Usage

```
enrichModule(  
  gene,  
  pvalueCutoff = 0.05,  
  pAdjustMethod = "BH",  
  universe = NULL,  
  minGSSize = 10,  
  maxGSSize = 500,  
  qvalueCutoff = 0.2  
)
```

## Arguments

gene	a vector of K gene id (e.g. K00001).
pvalueCutoff	adjusted pvalue cutoff on enrichment tests to report.
pAdjustMethod	one of "holm", "hochberg", "hommel", "bonferroni", "BH", "BY", "fdr", "none".
universe	universe background genes. If missing, use all K genes.
minGSSize	minimal size of genes annotated by KEGG term for testing.
maxGSSize	maximal size of genes annotated for testing.
qvalueCutoff	qvalue cutoff on enrichment tests to report.

## Value

A enrichResult instance.

## Examples

```
data(Rat_data)  
ko <- enrichModule(Rat_data)  
head(ko)
```

---

`enrichSMPDB`*Metabolism enrichment analysis for microbiome data*

---

**Description**

Metabolism enrichment analysis for microbiome data

**Usage**

```
enrichSMPDB(  
  metabo_list,  
  pvalueCutoff = 0.05,  
  pAdjustMethod = "BH",  
  universe = NULL,  
  minGSSize = 10,  
  maxGSSize = 500,  
  qvalueCutoff = 0.2  
)
```

**Arguments**

<code>metabo_list</code>	a vector of metabolites in smpdb Metabolite.ID
<code>pvalueCutoff</code>	adjusted pvalue cutoff on enrichment tests to report.
<code>pAdjustMethod</code>	one of "holm", "hochberg", "hommel", "bonferroni", "BH", "BY", "fdr", "none".
<code>universe</code>	universe background genes. If missing, use SMPDB db.
<code>minGSSize</code>	minimal size of genes annotated by KEGG term for testing.
<code>maxGSSize</code>	maximal size of genes annotated for testing.
<code>qvalueCutoff</code>	qvalue cutoff on enrichment tests to report.

**Value**

A `enrichResult` instance.

**Examples**

```
smp <- enrichSMPDB(c("PW_C000164", "PW_C000078", "PW_C000040"))  
head(smp)
```

gseCOG

*COG GSEA enrichment analysis for microbiome data***Description**

COG GSEA enrichment analysis for microbiome data

**Usage**

```
gseCOG(
  geneList,
  dtype = "category",
  nPerm = 1000,
  exponent = 1,
  minGSSize = 10,
  maxGSSize = 500,
  pvalueCutoff = 0.05,
  pAdjustMethod = "BH",
  method = "multilevel",
  adaptive = FALSE,
  minPerm = 101,
  maxPerm = 1e+05,
  pvalThreshold = 0.1,
  verbose = TRUE
)
```

**Arguments**

geneList	a vector of COG ids with values.
dtype	one of "category", "pathway"
nPerm	number of permutations.
exponent	exponent of weighting.
minGSSize	minimal size of genes annotated by KEGG term for testing.
maxGSSize	maximal size of genes annotated for testing.
pvalueCutoff	pvalue cutoff on enrichment tests to report.
pAdjustMethod	one of "holm", "hochberg", "hommel", "bonferroni", "BH", "BY", "fdr", "none".
method	one of "multilevel", "fgsea", "bioc".
adaptive	whether to use adaptive permutation.
minPerm	minimal number of permutations.
maxPerm	maximal number of permutations.
pvalThreshold	pvalue threshold for adaptive permutation.
verbose	whether to show progress.

**Value**

A gseaResult instance.

---

gseHMDB

*Metabolism GSEA enrichment analysis for microbiome data*

---

## Description

Metabolism GSEA enrichment analysis for microbiome data

## Usage

```
gseHMDB(  
  metabo_list,  
  nPerm = 1000,  
  exponent = 1,  
  minGSSize = 10,  
  maxGSSize = 500,  
  pvalueCutoff = 0.05,  
  pAdjustMethod = "BH",  
  method = "multilevel",  
  adaptive = FALSE,  
  minPerm = 101,  
  maxPerm = 1e+05,  
  pvalThreshold = 0.1,  
  verbose = TRUE  
)
```

## Arguments

metabo_list	a vector of metabolites in HMDB.ID with values
nPerm	number of permutations.
exponent	exponent of weighting.
minGSSize	minimal size of genes annotated by KEGG term for testing.
maxGSSize	maximal size of genes annotated for testing.
pvalueCutoff	pvalue cutoff on enrichment tests to report.
pAdjustMethod	one of "holm", "hochberg", "hommel", "bonferroni", "BH", "BY", "fdr", "none".
method	one of "multilevel", "fgsea", "bioc".
adaptive	whether to use adaptive permutation.
minPerm	minimal number of permutations.
maxPerm	maximal number of permutations.
pvalThreshold	pvalue threshold for adaptive permutation.
verbose	whether to show progress.

## Value

A gseaResult instance.

---

`gseKO`*KO GSEA enrichment for microbiome data*

---

### Description

KO GSEA enrichment for microbiome data

### Usage

```
gseKO(  
  geneList,  
  nPerm = 1000,  
  exponent = 1,  
  minGSSize = 10,  
  maxGSSize = 500,  
  pvalueCutoff = 0.05,  
  pAdjustMethod = "BH",  
  method = "multilevel",  
  adaptive = FALSE,  
  minPerm = 101,  
  maxPerm = 1e+05,  
  pvalThreshold = 0.1,  
  verbose = TRUE  
)
```

### Arguments

<code>geneList</code>	a vector of K gene id (e.g. K00001) or EC id (e.g. 1.1.1.27) with values.
<code>nPerm</code>	number of permutations.
<code>exponent</code>	exponent of weighting.
<code>minGSSize</code>	minimal size of genes annotated by KEGG term for testing.
<code>maxGSSize</code>	maximal size of genes annotated for testing.
<code>pvalueCutoff</code>	pvalue cutoff on enrichment tests to report.
<code>pAdjustMethod</code>	one of "holm", "hochberg", "hommel", "bonferroni", "BH", "BY", "fdr", "none".
<code>method</code>	one of "multilevel", "fgsea", "bioc".
<code>adaptive</code>	whether to use adaptive permutation.
<code>minPerm</code>	minimal number of permutations.
<code>maxPerm</code>	maximal number of permutations.
<code>pvalThreshold</code>	pvalue threshold for adaptive permutation.
<code>verbose</code>	whether to show progress.

### Value

A `gseaResult` instance.

gseMBKEGG

*Metabolism GSEA enrichment analysis for microbiome data***Description**

Metabolism GSEA enrichment analysis for microbiome data

**Usage**

```
gseMBKEGG(
  metabo_list,
  nPerm = 1000,
  exponent = 1,
  minGSSize = 10,
  maxGSSize = 500,
  pvalueCutoff = 0.05,
  pAdjustMethod = "BH",
  method = "multilevel",
  adaptive = FALSE,
  minPerm = 101,
  maxPerm = 1e+05,
  pvalThreshold = 0.1,
  verbose = TRUE
)
```

**Arguments**

metabo_list	a vector of metabolites in KEGG.ID with values
nPerm	number of permutations.
exponent	exponent of weighting.
minGSSize	minimal size of genes annotated by KEGG term for testing.
maxGSSize	maximal size of genes annotated for testing.
pvalueCutoff	pvalue cutoff on enrichment tests to report.
pAdjustMethod	one of "holm", "hochberg", "hommel", "bonferroni", "BH", "BY", "fdr", "none".
method	one of "multilevel", "fgsea", "bioc".
adaptive	whether to use adaptive permutation.
minPerm	minimal number of permutations.
maxPerm	maximal number of permutations.
pvalThreshold	pvalue threshold for adaptive permutation.
verbose	whether to show progress.

**Value**

A gseaResult instance.

---

gseMDA

*Microbe-Disease associations GSEA enrichment analysis*

---

## Description

Microbe-Disease associations GSEA enrichment analysis

## Usage

```
gseMDA(  
  microbe_list,  
  nPerm = 1000,  
  exponent = 1,  
  minGSSize = 10,  
  maxGSSize = 500,  
  pvalueCutoff = 0.05,  
  pAdjustMethod = "BH",  
  method = "multilevel",  
  adaptive = FALSE,  
  minPerm = 101,  
  maxPerm = 1e+05,  
  pvalThreshold = 0.1,  
  verbose = TRUE  
)
```

## Arguments

microbe_list	a vector of microbe ncbi tax ids with values.
nPerm	number of permutations.
exponent	exponent of weighting.
minGSSize	minimal size of genes annotated by KEGG term for testing.
maxGSSize	maximal size of genes annotated for testing.
pvalueCutoff	pvalue cutoff on enrichment tests to report.
pAdjustMethod	one of "holm", "hochberg", "hommel", "bonferroni", "BH", "BY", "fdr", "none".
method	one of "multilevel", "fgsea", "bioc".
adaptive	whether to use adaptive permutation.
minPerm	minimal number of permutations.
maxPerm	maximal number of permutations.
pvalThreshold	pvalue threshold for adaptive permutation.
verbose	whether to show progress.

## Value

A gseaResult instance.

---

`gseModule`*Module GSEA enrichment for microbiome data*

---

**Description**

Module GSEA enrichment for microbiome data

**Usage**

```
gseModule(  
  geneList,  
  nPerm = 1000,  
  exponent = 1,  
  minGSSize = 10,  
  maxGSSize = 500,  
  pvalueCutoff = 0.05,  
  pAdjustMethod = "BH",  
  method = "multilevel",  
  adaptive = FALSE,  
  minPerm = 101,  
  maxPerm = 1e+05,  
  pvalThreshold = 0.1,  
  verbose = TRUE  
)
```

**Arguments**

<code>geneList</code>	a vector of K gene id (e.g. K00001) with values.
<code>nPerm</code>	number of permutations.
<code>exponent</code>	exponent of weighting.
<code>minGSSize</code>	minimal size of genes annotated by KEGG term for testing.
<code>maxGSSize</code>	maximal size of genes annotated for testing.
<code>pvalueCutoff</code>	pvalue cutoff on enrichment tests to report.
<code>pAdjustMethod</code>	one of "holm", "hochberg", "hommel", "bonferroni", "BH", "BY", "fdr", "none".
<code>method</code>	one of "multilevel", "fgsea", "bioc".
<code>adaptive</code>	whether to use adaptive permutation.
<code>minPerm</code>	minimal number of permutations.
<code>maxPerm</code>	maximal number of permutations.
<code>pvalThreshold</code>	pvalue threshold for adaptive permutation.
<code>verbose</code>	whether to show progress.

**Value**

A `gseaResult` instance.

gseSMPDB

*Metabolism GSEA enrichment analysis for microbiome data***Description**

Metabolism GSEA enrichment analysis for microbiome data

**Usage**

```
gseSMPDB(
  metabo_list,
  nPerm = 1000,
  exponent = 1,
  minGSSize = 10,
  maxGSSize = 500,
  pvalueCutoff = 0.05,
  pAdjustMethod = "BH",
  method = "multilevel",
  adaptive = FALSE,
  minPerm = 101,
  maxPerm = 1e+05,
  pvalThreshold = 0.1,
  verbose = TRUE
)
```

**Arguments**

metabo_list	a vector of metabolites in smpdb Metabolite.ID with values
nPerm	number of permutations.
exponent	exponent of weighting.
minGSSize	minimal size of genes annotated by KEGG term for testing.
maxGSSize	maximal size of genes annotated for testing.
pvalueCutoff	pvalue cutoff on enrichment tests to report.
pAdjustMethod	one of "holm", "hochberg", "hommel", "bonferroni", "BH", "BY", "fdr", "none".
method	one of "multilevel", "fgsea", "bioc".
adaptive	whether to use adaptive permutation.
minPerm	minimal number of permutations.
maxPerm	maximal number of permutations.
pvalThreshold	pvalue threshold for adaptive permutation.
verbose	whether to show progress.

**Value**

A gseaResult instance.

---

`gson_cpd`*gson\_cpd*

---

**Description**

download compound annotation of the latest version of KEGG pathway and stored in a 'GSON' object

**Usage**`gson_cpd()`**Value**

a 'GSON' object

---

`gson_enzyme`*gson\_enzyme*

---

**Description**

download compound annotation of the latest version of KEGG pathway to enzyme and stored in a 'GSON' object

**Usage**`gson_enzyme()`**Value**

a 'GSON' object

---

`gson_KO`*gson\_KO*

---

**Description**

download KO annotation of the latest version of KEGG pathway and stored in a 'GSON' object

**Usage**`gson_KO()`**Value**

a 'GSON' object

gson\_module            *gson\_module*

---

**Description**

download compound annotation of the latest version of KEGG Module and stored in a 'GSON' object

**Usage**

```
gson_module(db = "ko")
```

**Arguments**

db                      ko or enzyme

**Value**

a 'GSON' object

---

microbiota\_taxlist    *Example data: a vector of 54 bacterial genera tested for significantly between T2D metformin samples*

---

**Description**

This example data was reported on Forslund K,et al.2016 (doi: 10.1038/nature15766) and used for Microbe-Disease Association analysis.

**Format**

a vector with 54 genera tax ids

**References**

<https://www.nature.com/articles/nature15766>

**Examples**

```
data(microbiota_taxlist)
```

---

Psoriasis_data	<i>Example data: a vector of 134 significantly different functional COGs between Psoriasis patients and controls</i>
----------------	--

---

**Description**

This example data was reported on Xiao S,et al.2021 (doi:10.3389/fcimb.2021.605825) and used for COG enrichment analysis.

**Format**

a vector with 134 COGs

**Value**

<https://www.frontiersin.org/articles/10.3389/fcimb.2021.605825/full>

**Examples**

```
data(Psoriasis_data)
```

---

Rat_data	<i>Example data: a vector of 91 KEGG Orthologies (KOs) showing significant associations with weaning weight</i>
----------	---

---

**Description**

This example data was reported on Fang S,et al.2019 (doi: 10.1111/1751-7915.13485) and used for KEGG enrichment analysis.

**Format**

a vector with 91 KEGG Orthologies (KOs)

**References**

<https://sfamjournals.onlinelibrary.wiley.com/doi/10.1111/1751-7915.13485>

**Examples**

```
data(Rat_data)
```

---

```
run_MicrobiomeProfiler
```

*Run the Shiny Application*

---

## Description

Run the Shiny Application

## Usage

```
run_MicrobiomeProfiler(
  onStart = NULL,
  options = list(),
  enableBookmarking = NULL,
  uiPattern = "/",
  ...
)
```

## Arguments

onStart	A function that will be called before the app is actually run. This is only needed for shinyAppObj, since in the shinyAppDir case, a global.R file can be used for this purpose.
options	Named options that should be passed to the runApp call (these can be any of the following: "port", "launch.browser", "host", "quiet", "display.mode" and "test.mode"). You can also specify width and height parameters which provide a hint to the embedding environment about the ideal height/width for the app.
enableBookmarking	Can be one of "url", "server", or "disable". The default value, NULL, will respect the setting from any previous calls to <a href="#">enableBookmarking()</a> . See <a href="#">enableBookmarking()</a> for more information on bookmarking your app.
uiPattern	A regular expression that will be applied to each GET request to determine whether the ui should be used to handle the request. Note that the entire request path must match the regular expression in order for the match to be considered successful.
...	arguments to pass to golem_opts. See <code>'?golem::get_golem_options'</code> for more details.

## Value

Shiny application object.

## Examples

```
if (interactive()) {run_MicrobiomeProfiler()}
```

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