

# Package ‘microbial’

October 6, 2025

**Type** Package

**Title** Do 16s Data Analysis and Generate Figures

**Version** 0.0.22

**Description** Provides functions to enhance the available statistical analysis procedures in R by providing simple functions to analysis and visualize the 16S rRNA data. Here we present a tutorial with minimum working examples to demonstrate usage and dependencies.

**License** GPL-3

**Depends** R (>= 3.5.0)

**Imports** dplyr, plyr, magrittr, broom, phyloseq, vegan, rlang, ggplot2, ggpubr, DESeq2, SummarizedExperiment, S4Vectors, rstatix, tidyr, phangorn, randomForest, edgeR

**Encoding** UTF-8

**LazyData** true

**Suggests** markdown, dada2, rmarkdown, knitr, tools, Biostrings, DECIPHER, MASS, testthat

**VignetteBuilder** knitr

**biocViews** Software, GraphAndNetwork

**RoxygenNote** 7.3.2

**NeedsCompilation** no

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**Repository** CRAN

**Date/Publication** 2025-10-06 12:30:02 UTC

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---

.checkfile	<i>check file format</i>
------------	--------------------------

---

**Description**

check file format

**Usage**

.checkfile(file)

**Arguments**

file            filename

---

.getstar            *replace p value with star*

---

**Description**

replace p value with star

**Usage**

.getstar(x)

**Arguments**

x                a (non-empty) numeric data values

---

.lda.fun            *LEfse function*

---

**Description**

LEfse function

**Usage**

.lda.fun(df)

**Arguments**

df                a dataframe with groups and bacteria abundance

---

betadiv                      *calcaute beta diversity*

---

### Description

calcaute beta diversity

### Usage

```
betadiv(physeq, distance = "bray", method = "PCoA")
```

### Arguments

physeq	A phyloseq object containing merged information of abundance, taxonomic assignment, sample data including the measured variables and categorical information of the samples, and / or phylogenetic tree if available.
distance	A string character specifying dissimilarity index to be used in calculating pairwise distances (Default index is "bray"). "unifrac", "wunifrac", "manhattan", "euclidean", "canberra", "bray", "kulczynski", "jaccard", "gower", "altGower", "morisita", "horn", "mountford", "raup", "binomial", "chao", "cao" or "mahalanobis".
method	A character string specifying ordination method. All methods available to the ordinate function of phyloseq are acceptable here as well.

### Value

list with beta diversity data.frame and PCs

### Author(s)

Kai Guo

### Examples

```
{
  data("Physeq")
  phy<-normalize(physeq)
  res <- betadiv(phy)
}
```

---

betatest	<i>PERMANOVA test for phyloseq</i>
----------	------------------------------------

---

### Description

PERMANOVA test for phyloseq

### Usage

```
betatest(physeq, group, distance = "bray")
```

### Arguments

physeq	A phyloseq object containing merged information of abundance, taxonomic assignment, sample data including the measured variables and categorical information of the samples, and / or phylogenetic tree if available.
group	(Required). Character string specifying name of a categorical variable that is preferred for grouping the information.
distance	A string character specifying dissimilarity index to be used in calculating pairwise distances (Default index is "bray"). "unifrac", "wunifrac", "manhattan", "euclidean", "canberra", "bray", "kulczynski", "jaccard", "gower", "altGower", "morisita", "horn", "mountford", "raup", "binomial", "chao", "cao" or "mahalanobis".

### Value

PERMANOVA test result

### Author(s)

Kai Guo

### Examples

```
{
  data("Physeq")
  phy<-normalize(physeq)
  beta <-betatest(phy,group="SampleType")
}
```

---

**biomarker***Identify biomarker by using randomForest method*

---

**Description**

Identify biomarker by using randomForest method

**Usage**

```
biomarker(  
  physeq,  
  group,  
  ntree = 500,  
  pvalue = 0.05,  
  normalize = TRUE,  
  method = "relative"  
)
```

**Arguments**

physeq	A phyloseq object containing merged information of abundance, taxonomic assignment, sample data including the measured variables and categorical information of the samples, and / or phylogenetic tree if available.
group	group. A character string specifying the name of a categorical variable containing grouping information.
ntree	Number of trees to grow. This should not be set to too small a number, to ensure that every input row gets predicted at least a few times.
pvalue	pvalue threshold for significant results from <code>kruskal.test</code>
normalize	to normalize the data before analysis(TRUE/FALSE)
method	A list of character strings specifying method to be used to normalize the phyloseq object Available methods are: "relative", "TMM", "vst", "log2".

**Value**

data frame with significant biomarker

**Author(s)**

Kai Guo

**Examples**

```
data("Physeq")  
res <- biomarker(physeq, group="group")
```

---

buildTree	<i>contruction of plylogenetic tree (extreme slow)</i>
-----------	--

---

**Description**

contruction of plylogenetic tree (extreme slow)

**Usage**

```
buildTree(seqs)
```

**Arguments**

seqs	DNA sequences
------	---------------

**Value**

tree object

**Author(s)**

Kai Guo

---

data-physeq	<i>The physeq data was modified from the (Data) Global patterns of 16S rRNA diversity at a depth of millions of sequences per sample (2011)</i>
-------------	---

---

**Description**

Published in PNAS in early 2011. This work compared the microbial communities from 25 environmental samples and three known “mock communities” – a total of 9 sample types – at a depth averaging 3.1 million reads per sample. Authors were able to reproduce diversity patterns seen in many other published studies, while also investigating technical issues/bias by applying the same techniques to simulated microbial communities of known

**References**

Caporaso, J. G., et al. (2011). Global patterns of 16S rRNA diversity at a depth of millions of sequences per sample. PNAS, 108, 4516-4522. PMID: PMC3063599

**Examples**

```
data(Physeq)
```

---

`difftest`*Calculate differential bacteria with DESeq2*

---

**Description**

Calculate differential bacteria with DESeq2

**Usage**

```
difftest(  
  physeq,  
  group,  
  ref = NULL,  
  pvalue = 0.05,  
  padj = NULL,  
  log2FC = 0,  
  gm_mean = TRUE,  
  fitType = "local",  
  quiet = FALSE  
)
```

**Arguments**

<code>physeq</code>	A phyloseq object containing merged information of abundance, taxonomic assignment, sample data including the measured variables and categorical information of the samples, and / or phylogenetic tree if available.
<code>group</code>	group (DESeq2). A character string specifying the name of a categorical variable containing grouping information.
<code>ref</code>	reference group
<code>pvalue</code>	pvalue threshold for significant results
<code>padj</code>	adjust p value threshold for significant results
<code>log2FC</code>	log2 Fold Change threshold
<code>gm_mean</code>	TRUE/FALSE calculate geometric means prior to estimate size factors
<code>fitType</code>	either "parametric", "local", or "mean" for the type of fitting of dispersions to the mean intensity.
<code>quiet</code>	whether to print messages at each step

**Value**

dataframe with differential test with DESeq2

**Author(s)**

Kai Guo



**Examples**

```
data("Physeq")
res <- difftest(physeq,group="group")
```

---

distcolor	<i>distinguish colors for making figures</i>
-----------	--

---

**Description**

distinguish colors for making figures

**Usage**

```
distcolor
```

**Format**

An object of class character of length 41.

**Author(s)**

Kai Guo

---

do_aov	<i>do anova test and return results as data.frame</i>
--------	---

---

**Description**

do anova test and return results as data.frame

**Usage**

```
do_aov(x, group, ...)
```

**Arguments**

x	data.frame with sample id as the column name, genes or otu as rownames
group	group factor used for comparison
...	parameters to anova_test

**Author(s)**

Kai Guo

**Examples**

```
{
  data("ToothGrowth")
  do_aov(ToothGrowth, group="supp")
}
```

---

do\_ttest

*do t.test*

---

**Description**

do t.test

**Usage**

```
do_ttest(x, group, ref = NULL, ...)
```

**Arguments**

x	data.frame with sample id as the column name, genes or otu as rownames
group	group factor used for comparison
ref	reference group
...	parameters to t_test

**Author(s)**

Kai Guo

**Examples**

```
{
  data("mtcars")
  do_ttest(mtcars, group="vs")
  do_ttest(mtcars, group="cyl", ref="4")
}
```

---

do_wilcox	<i>do wilcox test</i>
-----------	-----------------------

---

**Description**

do wilcox test

**Usage**

```
do_wilcox(x, group, ref = NULL, ...)
```

**Arguments**

x	data.frame with sample id as the column name, genes or otu as rownames
group	group factor used for comparison
ref	reference group
...	parameters to wilcox_test

**Author(s)**

Kai Guo

**Examples**

```
{
  data("mtcars")
  do_wilcox(mtcars,group="vs")
  do_wilcox(mtcars,group="cyl",ref="4")
}
```

---

glmr	<i>Do the generalized linear model regression</i>
------	---

---

**Description**

Do the generalized linear model regression

**Usage**

```
glmr(
  physeq,
  group,
  factors = NULL,
  ref = NULL,
  family = binomial(link = "logit")
)
```

**Arguments**

physeq	phyloseq object
group	the group factor to regression
factors	a vector to indicate adjusted factors
ref	the reference group
family	binomial() or gaussian()

**Author(s)**

Kai Guo

**Examples**

```
data("Physeq")
phy<-normalize(physeq)
fit <-glmr(phy,group="SampleType")
```

ldamarker

*Identify biomarker by using LEfSe method***Description**

Identify biomarker by using LEfSe method

**Usage**

```
ldamarker(physeq, group, pvalue = 0.05, normalize = TRUE, method = "relative")
```

**Arguments**

physeq	A phyloseq object containing merged information of abundance, taxonomic assignment, sample data including the measured variables and categorical information of the samples, and / or phylogenetic tree if available.
group	group. A character string specifying the name of a categorical variable containing grouping information.
pvalue	pvalue threshold for significant results from kruskal.test
normalize	to normalize the data before analysis(TRUE/FALSE)
method	A list of character strings specifying method to be used to normalize the phyloseq object Available methods are: "relative", "TMM", "vst", "log2".

**Author(s)**

Kai Guo

**Examples**

```
data("Physeq")
res <- ldamarker(physeq,group="group")
```

---

lightcolor	<i>light colors for making figures</i>
------------	--

---

**Description**

light colors for making figures

**Usage**

```
lightcolor
```

**Format**

An object of class character of length 56.

**Author(s)**

Kai Guo

---

normalize	<i>Normalize the phyloseq object with different methods</i>
-----------	---

---

**Description**

Normalize the phyloseq object with different methods

**Usage**

```
normalize(physeq, group, method = "relative", table = FALSE)
```

**Arguments**

physeq	A phyloseq object containing merged information of abundance, taxonomic assignment, sample data including the measured variables and categorical information of the samples, and / or phylogenetic tree if available.
group	group (DESeq2). A character string specifying the name of a categorical variable containing grouping information.
method	A list of character strings specifying method to be used to normalize the phyloseq object Available methods are: "relative", "TMM", "vst", "log2".
table	return a data.frame or not

**Value**

phyloseq object with normalized data

**Author(s)**

Kai Guo

**Examples**

```
{
  data("Physeq")
  phy<-normalize(physeq)
}
```

---

otu_table	<i>extract otu table</i>
-----------	--------------------------

---

**Description**

extract otu table

**Usage**

```
otu_table(physeq, ...)
```

**Arguments**

physeq	(Required). An integer matrix, otu_table-class, or phyloseq-class.
...	parameters for the otu_table function in phyloseq package

---

phy_tree	<i>Retrieve phylogenetic tree (phylo-class) from object.</i>
----------	--

---

**Description**

Retrieve phylogenetic tree (phylo-class) from object.

**Usage**

```
phy_tree(physeq, ...)
```

**Arguments**

physeq	(Required). An instance of phyloseq-class that contains a phylogenetic tree. If physeq is a phylogenetic tree (a component data class), then it is returned as-is.
...	parameters for the phy_tree function in phyloseq package

---

plotalpha                      *plot alpha diversity*

---

## Description

plot alpha diversity

## Usage

```
plotalpha(
  physeq,
  group,
  method = c("Observed", "Simpson", "Shannon"),
  color = NULL,
  geom = "boxplot",
  pvalue = 0.05,
  padj = NULL,
  sig.only = TRUE,
  wilcox = FALSE,
  show.number = FALSE
)
```

## Arguments

physeq	A phyloseq object containing merged information of abundance, taxonomic assignment, sample data including the measured variables and categorical information of the samples, and / or phylogenetic tree if available.
group	group (Required). A character string specifying the name of a categorical variable containing grouping information.
method	A list of character strings specifying method to be used to calculate for alpha diversity in the data. Available methods are: "Observed", "Chao1", "ACE", "Richness", "Fisher", "Simpson", "Shannon", "Evenness", "InvSimpson".
color	A vector of character use specifying the color
geom	different geom to display("boxplot", "violin", "dotplot")
pvalue	pvalue threshold for significant dispersion results
padj	adjust p value threshold for significant dispersion results
sig.only	display the significant comparison only(TRUE/ FALSE)
wilcox	use wilcoxon test or not
show.number	to show the pvalue instead of significant symbol(TRUE/FALSE)

## Value

Returns a ggplot object. This can further be manipulated as preferred by user.

**Author(s)**

Kai Guo

**Examples**

```
{
  data("Physeq")
  plotalpha(physeq, group="SampleType")
}
```

---

`plotbar`*plot bar for relative abundance for bacteria*

---

**Description**

plot bar for relative abundance for bacteria

**Usage**

```
plotbar(
  physeq,
  level = "Phylum",
  color = NULL,
  group = NULL,
  top = 5,
  return = FALSE,
  fontsize.x = 5,
  fontsize.y = 12
)
```

**Arguments**

<code>physeq</code>	A phyloseq object containing merged information of abundance, taxonomic assignment, sample data including the measured variables and categorical information of the samples, and / or phylogenetic tree if available.
<code>level</code>	the level to plot
<code>color</code>	A vector of character use specifying the color
<code>group</code>	group (Optional). A character string specifying the name of a categorical variable containing grouping information.
<code>top</code>	the number of most abundance bacteria to display
<code>return</code>	return the data with the relative abundance
<code>fontsize.x</code>	the size of x axis label
<code>fontsize.y</code>	the size of y axis label



**Value**

Returns a ggplot object. This can further be manipulated as preferred by user.

**Author(s)**

Kai Guo

**Examples**

```
data("Physeq")
phy<-normalize(physeq)
plotbar(phy, level="Phylum")
```

---

plotbeta

*plot beta diversity*

---

**Description**

plot beta diversity

**Usage**

```
plotbeta(
  physeq,
  group,
  shape = NULL,
  distance = "bray",
  method = "PCoA",
  color = NULL,
  size = 3,
  ellipse = FALSE
)
```

**Arguments**

physeq	A phyloseq object containing merged information of abundance, taxonomic assignment, sample data including the measured variables and categorical information of the samples, and / or phylogenetic tree if available.
group	(Required). Character string specifying name of a categorical variable that is preferred for grouping the information. information.
shape	shape(Optional) Character string specifying shape of a categorical variable
distance	A string character specifying dissimilarity index to be used in calculating pairwise distances (Default index is "bray"). "unifrac", "wunifrac", "manhattan", "euclidean", "canberra", "bray", "kulczynski", "jaccard", "gower", "altGower", "morisita", "horn", "mountford", "raup", "binomial", "chao", "cao" or "mahalanobis".

method	A character string specifying ordination method. All methods available to the ordinate function of phyloseq are acceptable here as well.
color	user defined color for group
size	the point size
ellipse	draw ellipse or not

**Value**

ggplot2 object

**Author(s)**

Kai Guo

**Examples**

```
{
  data("Physeq")
  phy<-normalize(physeq)
  plotbeta(phy,group="SampleType")
}
```

---

plotdiff

*plot differential results*

---

**Description**

plot differential results

**Usage**

```
plotdiff(
  res,
  level = "Genus",
  color = NULL,
  pvalue = 0.05,
  padj = NULL,
  log2FC = 0,
  size = 3,
  fontsize.x = 5,
  fontsize.y = 10,
  horiz = TRUE
)
```

**Arguments**

res	differential test results from diff_test
level	the level to plot
color	A vector of character use specifying the color
pvalue	pvalue threshold for significant results
padj	adjust p value threshold for significant results
log2FC	log2 Fold Change threshold
size	size for the point
fontsize.x	the size of x axis label
fontsize.y	the size of y axis label
horiz	horizontal or not (TRUE/FALSE)

**Value**

ggplot object

**Author(s)**

Kai Guo

**Examples**

```
data("Physeq")
res <- difftest(physeq,group="group")
plotdiff(res,level="Genus",padj=0.001)
```

---

plotLDA

*plot LEfSe results from ldamarker function*

---

**Description**

plot LEfSe results from ldamarker function

**Usage**

```
plotLDA(  
  x,  
  group,  
  lda = 2,  
  pvalue = 0.05,  
  padj = NULL,  
  color = NULL,  
  fontsize.x = 4,  
  fontsize.y = 5  
)
```

**Arguments**

x	LEfse results from ldamarker
group	a vector include two character to show the group comparison
lda	LDA threshold for significant biomarker
pvalue	pvalue threshold for significant results
padj	adjust p value threshold for significant results
color	A vector of character use specifying the color
fontsize.x	the size of x axis label
fontsize.y	the size of y axis label

**Value**

ggplot2 object

**Author(s)**

Kai Guo

**Examples**

```
data("Physeq")
res <- ldamarker(physeq,group="group")
plotLDA(res,group=c("A","B"),lda=5,pvalue=0.05)
```

---

plotmarker

*plot the biomarker from the biomarker function with randomForest*

---

**Description**

plot the biomarker from the biomarker function with randomForest

**Usage**

```
plotmarker(  
  x,  
  level = "Genus",  
  top = 30,  
  rotate = FALSE,  
  dot.size = 8,  
  label.color = "black",  
  label.size = 6  
)
```

**Arguments**

x	biomarker results from randomForest
level	the bacteria level to display
top	the number of important biomarker to draw
rotate	TRUE/FALSE
dot.size	size for the dot
label.color	label color
label.size	label size

**Value**

ggplot2 object

**Author(s)**

Kai Guo

**Examples**

```
data("Physeq")
res <- biomarker(physeq,group="group")
plotmarker(res,level="Genus")
```

---

plotquality                    *plot the quality for the fastq file*

---

**Description**

plot the quality for the fastq file

**Usage**

```
plotquality(file, n = 5e+05, aggregate = FALSE)
```

**Arguments**

file	(Required). character. File path(s) to fastq or fastq.gz file(s).
n	(Optional). Default 500,000. The number of records to sample from the fastq file.
aggregate	(Optional). Default FALSE. If TRUE, compute an aggregate quality profile for all fastq files provided.

**Value**

figure

**Examples**

```
plotquality(system.file("extdata", "sam1F.fastq.gz", package="dada2"))
```

---

prefilter	<i>filter the phyloseq</i>
-----------	----------------------------

---

**Description**

filter the phyloseq

**Usage**

```
prefilter(physeq, min = 10, perc = 0.05)
```

**Arguments**

physeq	A phyloseq object containing merged information of abundance, taxonomic assignment, sample data including the measured variables and categorical information of the samples, and / or phylogenetic tree if available.
min	Numeric, the threshold for minimal Phylum shown in samples
perc	Numeric, input the percentage of samples for which to filter low counts.

**Value**

filter phyloseq object

**Author(s)**

Kai Guo

**Examples**

```
data("Physeq")  
physeqs<-prefilter(physeq)
```

---

preRef	<i>Download the reference database</i>
--------	--

---

**Description**

Download the reference database

**Usage**

```
preRef(ref_db, path = ".")
```

**Arguments**

ref_db	the reference database
path	path for the database

**Value**

the path of the database

**Author(s)**

Kai Guo

---

processSeq	<i>Perform dada2 analysis</i>
------------	-------------------------------

---

**Description**

Perform dada2 analysis

**Usage**

```
processSeq(  
  path = ".",  
  truncLen = c(0, 0),  
  trimLeft = 0,  
  trimRight = 0,  
  minLen = 20,  
  maxlen = Inf,  
  sample_info = NULL,  
  train_data = "silva_nr99_v138_train_set.fa.gz",  
  train_species = "silva_species_assignment_v138.fa.gz",  
  outpath = NULL,  
  saveobj = FALSE,  
  buildtree = FALSE,  
  verbose = TRUE  
)
```

**Arguments**

path	working dir for the input reads
truncLen	(Optional). Default 0 (no truncation). Truncate reads after truncLen bases. Reads shorter than this are discarded.
trimLeft	(Optional). The number of nucleotides to remove from the start of each read.
trimRight	(Optional). Default 0. The number of nucleotides to remove from the end of each read. If both truncLen and trimRight are provided, truncation will be performed after trimRight is enforced.
minLen	(Optional). Default 20. Remove reads with length less than minLen. minLen is enforced after trimming and truncation.
maxLen	(Optional). Default Inf (no maximum). Remove reads with length greater than maxLen. maxLen is enforced before trimming and truncation.
sample_info	(Optional).sample information for the sequence
train_data	(Required).training database
train_species	(Required). species database
outpath	(Optional).the path for the filtered reads and th out table
saveobj	(Optional).Default FALSE. save the phyloseq object output.
buildtree	build phylogenetic tree or not(default: FALSE)
verbose	(Optional). Default TRUE. Print verbose text output.

**Value**

list include count table, summary table, taxonomy information and phyloseq object

**Author(s)**

Kai Guo

---

psmelt

*Melt phyloseq data object into large data.frame*

---

**Description**

Melt phyloseq data object into large data.frame

**Usage**

```
psmelt(physeq, ...)
```

**Arguments**

physeq	A sample_data-class, or a phyloseq-class object with a sample_data. If the sample_data slot is missing in physeq, then physeq will be returned as-is, and a warning will be printed to screen.
...	parameters for the subset_samples function in phyloseq package



---

richness	<i>calculat the richness for the phyloseq object</i>
----------	--

---

**Description**

calculat the richness for the phyloseq object

**Usage**

```
richness(physeq, method = c("Observed", "Simpson", "Shannon"))
```

**Arguments**

physeq	A phyloseq object containing merged information of abundance, taxonomic assignment, sample data including the measured variables and categorical information of the samples, and / or phylogenetic tree if available.
method	A list of character strings specifying method to be used to calculate for alpha diversity in the data. Available methods are: "Observed", "Chao1", "ACE", "Richness", "Fisher", "Simpson", "Shannon", "Evenness", "InvSimpson".

**Value**

data.frame of alpha diversity

**Author(s)**

Kai Guo

**Examples**

```
{  
  data("Physeq")  
  rich <- richness(physeq, method=c("Simpson", "Shannon"))  
}
```

---

sample_data	<i>extract sample information</i>
-------------	-----------------------------------

---

**Description**

extract sample information

**Usage**

```
sample_data(physeq, ...)
```

**Arguments**

physeq (Required). A data.frame-class, or a phyloseq-class object.  
 ... parameters for the sample\_data function in phyloseq package

---

subset\_samples *Subset the phyloseq based on sample*

---

**Description**

Subset the phyloseq based on sample

**Usage**

subset\_samples(physeq, ...)

**Arguments**

physeq A sample\_data-class, or a phyloseq-class object with a sample\_data. If the sample\_data slot is missing in physeq, then physeq will be returned as-is, and a warning will be printed to screen.  
 ... parameters for the subset\_samples function in phyloseq package

---

subset\_taxa *Subset species by taxonomic expression*

---

**Description**

Subset species by taxonomic expression

**Usage**

subset\_taxa(physeq, ...)

**Arguments**

physeq A sample\_data-class, or a phyloseq-class object with a sample\_data. If the sample\_data slot is missing in physeq, then physeq will be returned as-is, and a warning will be printed to screen.  
 ... parameters for the subset\_taxa function in phyloseq package

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tax_table	<i>extract taxonomy table</i>
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**Description**

extract taxonomy table

**Usage**

```
tax_table(physeq, ...)
```

**Arguments**

physeq	An object among the set of classes defined by the phyloseq package that contain taxonomyTable.
...	parameters for the tax_table function in phyloseq package

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