

Package ‘curatedMetagenomicData’

June 18, 2024

Title Curated Metagenomic Data of the Human Microbiome

Description The curatedMetagenomicData package provides standardized, curated human microbiome data for novel analyses. It includes gene families, marker abundance, marker presence, pathway abundance, pathway coverage, and relative abundance for samples collected from different body sites. The bacterial, fungal, and archaeal taxonomic abundances for each sample were calculated with MetaPhlAn3, and metabolic functional potential was calculated with HUMAnN3. The manually curated sample metadata and standardized metagenomic data are available as (Tree)SummarizedExperiment objects.

biocViews ExperimentHub, Homo_sapiens_Data, MicrobiomeData, ReproducibleResearch

Version 3.13.0

License Artistic-2.0

Depends R (>= 4.1.0), SummarizedExperiment, TreeSummarizedExperiment

Imports AnnotationHub, ExperimentHub, S4Vectors, dplyr, magrittr, mia, purrr, rlang, stringr, tibble, tidyr, tidyselect

Suggests BiocStyle, DT, knitr, readr, rmarkdown, scater, testthat, utils, uwot, vegan

URL <https://github.com/waldronlab/curatedMetagenomicData>

BugReports <https://github.com/waldronlab/curatedMetagenomicData/issues>

Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.2.3

VignetteBuilder knitr

git_url <https://git.bioconductor.org/packages/curatedMetagenomicData>

git_branch devel

git_last_commit 3e51dcd

git_last_commit_date 2024-04-30

Repository Bioconductor 3.20

Date/Publication 2024-06-18

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curatedMetagenomicData

Access Curated Metagenomic Data

Description

To access curated metagenomic data users will use `curatedMetagenomicData()` after "shopping" the `sampleMetadata` `data.frame` for resources they are interested in. The `dryrun` argument allows users to perfect a query prior to returning resources. When `dryrun = TRUE`, matched resources will be printed before they are returned invisibly as a character vector. When `dryrun = FALSE`, a list of resources containing `SummarizedExperiment` and/or `TreeSummarizedExperiment` objects, each with corresponding sample metadata, is returned. Multiple resources can be returned simultaneously and if there is more than one date corresponding to a resource, the most recent one is selected automatically. Finally, if a `relative_abundance` resource is requested and `counts = TRUE`, relative abundance proportions will be multiplied by read depth and rounded to the nearest integer.

Usage

```
curatedMetagenomicData(  
  pattern,  
  dryrun = TRUE,  
  counts = FALSE,  
  rownames = "long"  
)
```

Arguments

pattern	regular expression pattern to look for in the titles of resources available in <code>curatedMetagenomicData</code> ; "" will return all resources
dryrun	if TRUE (the default), a character vector of resource names is returned invisibly; if FALSE, a list of resources is returned
counts	if FALSE (the default), relative abundance proportions are returned; if TRUE, relative abundance proportions are multiplied by read depth and rounded to the nearest integer prior to being returned
rownames	the type of rownames to use for <code>relative_abundance</code> resources, one of: "long" (the default), "short" (species name), or "NCBI" (NCBI Taxonomy ID)

Details

Above "resources" refers to resources that exists in Bioconductor's ExperimentHub service. In the context of `curatedMetagenomicData`, these are study-level (sparse) matrix objects used to create [SummarizedExperiment](#) and/or [TreeSummarizedExperiment](#) objects that are ultimately returned as the list of resources. Only the `gene_families` `data` type (see [returnSamples](#)) is stored as a sparse matrix in ExperimentHub – this has no practical consequences for users and is done to optimize storage. When searching for "resources", users will use the `study_name` value from the [sampleMetadata](#) `data.frame`.

Value

if `dryrun = TRUE`, a character vector of resource names is returned invisibly; if `dryrun = FALSE`, a list of resources is returned

See Also

[mergeData](#), [returnSamples](#), [sampleMetadata](#)

Examples

```
curatedMetagenomicData("AsnicarF_20.+")  
  
curatedMetagenomicData("AsnicarF_2017.relative_abundance", dryrun = FALSE)  
  
curatedMetagenomicData("AsnicarF_20.+relative_abundance", dryrun = FALSE, counts = TRUE)
```

curatedMetagenomicData-defunct

Defunct functions in package 'curatedMetagenomicData'

Description

These functions are defunct and no longer available.

Details

The following functions (methods) are defunct:

- cmdValidVersions()
- getMetaphlanTree()
- ExpressionSet2MRexperiment()
- ExpressionSet2phyloseq()

The following functions (accessors) are defunct:

- AsnicarF_2017.genefamilies_relab.milk()
- AsnicarF_2017.genefamilies_relab.stool()
- AsnicarF_2017.marker_abundance.milk()
- AsnicarF_2017.marker_abundance.stool()
- AsnicarF_2017.marker_presence.milk()
- AsnicarF_2017.marker_presence.stool()
- AsnicarF_2017.metaphlan_bugs_list.milk()
- AsnicarF_2017.metaphlan_bugs_list.stool()
- AsnicarF_2017.pathabundance_relab.milk()
- AsnicarF_2017.pathabundance_relab.stool()
- AsnicarF_2017.pathcoverage.milk()
- AsnicarF_2017.pathcoverage.stool()
- BackhedF_2015.genefamilies_relab.stool()
- BackhedF_2015.marker_abundance.stool()
- BackhedF_2015.marker_presence.stool()
- BackhedF_2015.metaphlan_bugs_list.stool()
- BackhedF_2015.pathabundance_relab.stool()
- BackhedF_2015.pathcoverage.stool()
- Bengtsson-PalmeJ_2015.genefamilies_relab.stool()
- Bengtsson-PalmeJ_2015.marker_abundance.stool()
- Bengtsson-PalmeJ_2015.marker_presence.stool()

- Bengtsson-PalmeJ_2015.metaphlan_bugs_list.stool()
- Bengtsson-PalmeJ_2015.pathabundance_relab.stool()
- Bengtsson-PalmeJ_2015.pathcoverage.stool()
- BritoIL_2016.genefamilies_relab.oralcavity()
- BritoIL_2016.genefamilies_relab.stool()
- BritoIL_2016.marker_abundance.oralcavity()
- BritoIL_2016.marker_abundance.stool()
- BritoIL_2016.marker_presence.oralcavity()
- BritoIL_2016.marker_presence.stool()
- BritoIL_2016.metaphlan_bugs_list.oralcavity()
- BritoIL_2016.metaphlan_bugs_list.stool()
- BritoIL_2016.pathabundance_relab.oralcavity()
- BritoIL_2016.pathabundance_relab.stool()
- BritoIL_2016.pathcoverage.oralcavity()
- BritoIL_2016.pathcoverage.stool()
- Castro_NallarE_2015.genefamilies_relab.oralcavity()
- Castro_NallarE_2015.marker_abundance.oralcavity()
- Castro_NallarE_2015.marker_presence.oralcavity()
- Castro_NallarE_2015.metaphlan_bugs_list.oralcavity()
- Castro_NallarE_2015.pathabundance_relab.oralcavity()
- Castro_NallarE_2015.pathcoverage.oralcavity()
- Castro-NallarE_2015.genefamilies_relab.oralcavity()
- Castro-NallarE_2015.marker_abundance.oralcavity()
- Castro-NallarE_2015.marker_presence.oralcavity()
- Castro-NallarE_2015.metaphlan_bugs_list.oralcavity()
- Castro-NallarE_2015.pathabundance_relab.oralcavity()
- Castro-NallarE_2015.pathcoverage.oralcavity()
- ChengpingW_2017.genefamilies_relab.stool()
- ChengpingW_2017.marker_abundance.stool()
- ChengpingW_2017.marker_presence.stool()
- ChengpingW_2017.metaphlan_bugs_list.stool()
- ChengpingW_2017.pathabundance_relab.stool()
- ChengpingW_2017.pathcoverage.stool()
- ChngKR_2016.genefamilies_relab.skin()
- ChngKR_2016.marker_abundance.skin()
- ChngKR_2016.marker_presence.skin()
- ChngKR_2016.metaphlan_bugs_list.skin()

- ChngKR_2016.pathabundance_relab.skin()
- ChngKR_2016.pathcoverage.skin()
- CosteaPI_2017.genefamilies_relab.stool()
- CosteaPI_2017.marker_abundance.stool()
- CosteaPI_2017.marker_presence.stool()
- CosteaPI_2017.metaphlan_bugs_list.stool()
- CosteaPI_2017.pathabundance_relab.stool()
- CosteaPI_2017.pathcoverage.stool()
- DavidLA_2015.genefamilies_relab.stool()
- DavidLA_2015.marker_abundance.stool()
- DavidLA_2015.marker_presence.stool()
- DavidLA_2015.metaphlan_bugs_list.stool()
- DavidLA_2015.pathabundance_relab.stool()
- DavidLA_2015.pathcoverage.stool()
- DhakanDB_2019.genefamilies_relab.stool()
- DhakanDB_2019.marker_abundance.stool()
- DhakanDB_2019.marker_presence.stool()
- DhakanDB_2019.metaphlan_bugs_list.stool()
- DhakanDB_2019.pathabundance_relab.stool()
- DhakanDB_2019.pathcoverage.stool()
- FengQ_2015.genefamilies_relab.stool()
- FengQ_2015.marker_abundance.stool()
- FengQ_2015.marker_presence.stool()
- FengQ_2015.metaphlan_bugs_list.stool()
- FengQ_2015.pathabundance_relab.stool()
- FengQ_2015.pathcoverage.stool()
- FerrettiP_2018.genefamilies_relab.oralcavity()
- FerrettiP_2018.genefamilies_relab.skin()
- FerrettiP_2018.genefamilies_relab.stool()
- FerrettiP_2018.genefamilies_relab.vagina()
- FerrettiP_2018.marker_abundance.oralcavity()
- FerrettiP_2018.marker_abundance.skin()
- FerrettiP_2018.marker_abundance.stool()
- FerrettiP_2018.marker_abundance.vagina()
- FerrettiP_2018.marker_presence.oralcavity()
- FerrettiP_2018.marker_presence.skin()
- FerrettiP_2018.marker_presence.stool()

- FerrettiP_2018.marker_presence.vagina()
- FerrettiP_2018.metaphlan_bugs_list.oralcavity()
- FerrettiP_2018.metaphlan_bugs_list.skin()
- FerrettiP_2018.metaphlan_bugs_list.stool()
- FerrettiP_2018.metaphlan_bugs_list.vagina()
- FerrettiP_2018.pathabundance_relab.oralcavity()
- FerrettiP_2018.pathabundance_relab.skin()
- FerrettiP_2018.pathabundance_relab.stool()
- FerrettiP_2018.pathabundance_relab.vagina()
- FerrettiP_2018.pathcoverage.oralcavity()
- FerrettiP_2018.pathcoverage.skin()
- FerrettiP_2018.pathcoverage.stool()
- FerrettiP_2018.pathcoverage.vagina()
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- GopalakrishnanV_2018.marker_presence.stool()
- GopalakrishnanV_2018.metaphlan_bugs_list.stool()
- GopalakrishnanV_2018.pathabundance_relab.stool()
- GopalakrishnanV_2018.pathcoverage.stool()
- HanniganGD_2017.genefamilies_relab.stool()
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- HanniganGD_2017.marker_presence.stool()
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- Heitz_BuschartA_2016.pathcoverage.stool()

- Heitz-BuschartA_2016.genefamilies_relab.stool()
- Heitz-BuschartA_2016.marker_abundance.stool()
- Heitz-BuschartA_2016.marker_presence.stool()
- Heitz-BuschartA_2016.metaphlan_bugs_list.stool()
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- HMP_2012.genefamilies_relab.oralcavity()
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- HMP_2012.genefamilies_relab.vagina()
- HMP_2012.marker_abundance.nasalcavity()
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- HMP_2012.marker_abundance.skin()
- HMP_2012.marker_abundance.stool()
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- HMP_2012.marker_presence.skin()
- HMP_2012.marker_presence.stool()
- HMP_2012.marker_presence.vagina()
- HMP_2012.metaphlan_bugs_list.nasalcavity()
- HMP_2012.metaphlan_bugs_list.oralcavity()
- HMP_2012.metaphlan_bugs_list.skin()
- HMP_2012.metaphlan_bugs_list.stool()
- HMP_2012.metaphlan_bugs_list.vagina()
- HMP_2012.pathabundance_relab.nasalcavity()
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- HMP_2012.pathabundance_relab.stool()
- HMP_2012.pathabundance_relab.vagina()
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- HMP_2012.pathcoverage.vagina()
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- JieZ_2017.pathcoverage.stool()
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- KarlssonFH_2013.metaphlan_bugs_list.stool()
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- LiJ_2017.marker_presence.stool()
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- Obregon_TitoAJ_2015.pathcoverage.stool()
- Obregon-TitoAJ_2015.genefamilies_relab.stool()
- Obregon-TitoAJ_2015.marker_abundance.stool()
- Obregon-TitoAJ_2015.marker_presence.stool()
- Obregon-TitoAJ_2015.metaphlan_bugs_list.stool()
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- Obregon-TitoAJ_2015.pathcoverage.stool()
- OhJ_2014.genefamilies_relab.skin()
- OhJ_2014.marker_abundance.skin()
- OhJ_2014.marker_presence.skin()
- OhJ_2014.metaphlan_bugs_list.skin()
- OhJ_2014.pathabundance_relab.skin()
- OhJ_2014.pathcoverage.skin()
- OlmMR_2017.genefamilies_relab.oralcavity()
- OlmMR_2017.genefamilies_relab.skin()
- OlmMR_2017.genefamilies_relab.stool()
- OlmMR_2017.marker_abundance.oralcavity()
- OlmMR_2017.marker_abundance.skin()
- OlmMR_2017.marker_abundance.stool()
- OlmMR_2017.marker_presence.oralcavity()
- OlmMR_2017.marker_presence.skin()
- OlmMR_2017.marker_presence.stool()
- OlmMR_2017.metaphlan_bugs_list.oralcavity()

- `OlmMR_2017.metaphlan_bugs_list.skin()`
- `OlmMR_2017.metaphlan_bugs_list.stool()`
- `OlmMR_2017.pathabundance_relab.oralcavity()`
- `OlmMR_2017.pathabundance_relab.skin()`
- `OlmMR_2017.pathabundance_relab.stool()`
- `OlmMR_2017.pathcoverage.oralcavity()`
- `OlmMR_2017.pathcoverage.skin()`
- `OlmMR_2017.pathcoverage.stool()`
- `PasolliE_2018.genefamilies_relab.stool()`
- `PasolliE_2018.marker_abundance.stool()`
- `PasolliE_2018.marker_presence.stool()`
- `PasolliE_2018.metaphlan_bugs_list.stool()`
- `PasolliE_2018.pathabundance_relab.stool()`
- `PasolliE_2018.pathcoverage.stool()`
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- `PehrssonE_2016.marker_abundance.stool()`
- `PehrssonE_2016.marker_presence.stool()`
- `PehrssonE_2016.metaphlan_bugs_list.stool()`
- `PehrssonE_2016.pathabundance_relab.stool()`
- `PehrssonE_2016.pathcoverage.stool()`
- `QinJ_2012.genefamilies_relab.stool()`
- `QinJ_2012.marker_abundance.stool()`
- `QinJ_2012.marker_presence.stool()`
- `QinJ_2012.metaphlan_bugs_list.stool()`
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- `QinN_2014.marker_presence.stool()`
- `QinN_2014.metaphlan_bugs_list.stool()`
- `QinN_2014.pathabundance_relab.stool()`
- `QinN_2014.pathcoverage.stool()`
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- `RampelliS_2015.marker_presence.stool()`
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- `RampelliS_2015.pathabundance_relab.stool()`

- RampelliS_2015.pathcoverage.stool()
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- RaymondF_2016.marker_presence.stool()
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- ShiB_2015.genefamilies_relab.oralcavity()
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- ShiB_2015.marker_presence.oralcavity()
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- SmitsSA_2017.metaphlan_bugs_list.stool()
- SmitsSA_2017.pathabundance_relab.stool()
- SmitsSA_2017.pathcoverage.stool()
- TettAJ_2016.genefamilies_relab.skin()
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- TettAJ_2016.marker_presence.skin()
- TettAJ_2016.metaphlan_bugs_list.skin()
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- TettAJ_2016.pathcoverage.skin()
- TettAJ_2019_a.genefamilies_relab.stool()
- TettAJ_2019_a.marker_abundance.stool()
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`mergeData`*Merge curatedMetagenomicData List*

Description

To merge the list elements returned from `curatedMetagenomicData` into a single `SummarizedExperiment` or `TreeSummarizedExperiment` object, users will use `mergeData()` provided elements are the same `dataType` (see `returnSamples`). This is useful for analysis across entire studies (e.g. meta-analysis); however, when doing analysis across individual samples (e.g. mega-analysis) `returnSamples` is preferable.

Usage

```
mergeData(mergeList)
```

Arguments

`mergeList` a list returned from `curatedMetagenomicData` where all of the elements are of the same `dataType` (see `returnSamples`)

Details

Internally, `mergeData()` must full join assays and `rowData` slots of each `SummarizedExperiment` or `TreeSummarizedExperiment` object (`colData` is merged slightly more efficiently by row binding). While `dplyr` methods are used for maximum efficiency, users should be aware that memory requirements can be large when merging many list elements.

Value

when `mergeList` elements are of `dataType` (see `returnSamples`) `relative_abundance`, a `TreeSummarizedExperiment` object is returned; otherwise, a `SummarizedExperiment` object is returned

See Also

`curatedMetagenomicData`, `returnSamples`

Examples

```
curatedMetagenomicData("LiJ_20.+marker_abundance", dryrun = FALSE) |>  
  mergeData()
```

```
curatedMetagenomicData("LiJ_20.+pathway_abundance", dryrun = FALSE) |>  
  mergeData()
```

```
curatedMetagenomicData("LiJ_20.+relative_abundance", dryrun = FALSE) |>  
  mergeData()
```

returnSamples	<i>Return Samples Across Studies</i>
---------------	--------------------------------------

Description

To return samples across studies, users will use `returnSamples()` along with the `sampleMetadata` `data.frame` subset to include only desired samples and metadata. The subset `sampleMetadata` `data.frame` will be used to get the desired resources, `mergeData` will be used to merge them, and the subset `sampleMetadata` `data.frame` will be used again to subset the `SummarizedExperiment` or `TreeSummarizedExperiment` object to include only desired samples and metadata.

Usage

```
returnSamples(sampleMetadata, dataType, counts = FALSE, rownames = "long")
```

Arguments

<code>sampleMetadata</code>	the <code>sampleMetadata</code> <code>data.frame</code> subset to include only desired samples and metadata
<code>dataType</code>	the data type to be returned; one of the following: <ul style="list-style-type: none"> "gene_families" "marker_abundance" "marker_presence" "pathway_abundance" "pathway_coverage" "relative_abundance"
<code>counts</code>	if FALSE (the default), relative abundance proportions are returned; if TRUE, relative abundance proportions are multiplied by read depth and rounded to the nearest integer prior to being returned
<code>rownames</code>	the type of rownames to use for <code>relative_abundance</code> resources, one of: "long" (the default), "short" (species name), or "NCBI" (NCBI Taxonomy ID)

Details

At present, `curatedMetagenomicData` resources exists only as entire studies which requires potentially getting many resources for a limited number of samples. Furthermore, because it is necessary to use `mergeData` internally, the same caveats detailed under **Details** in `mergeData` apply here.

Value

when `dataType = "relative_abundance"`, a `TreeSummarizedExperiment` object is returned; otherwise, a `SummarizedExperiment` object is returned

Examples

```
sampleMetadata |>
  dplyr::filter(age >= 18) |>
  dplyr::filter(!base::is.na(alcohol)) |>
  dplyr::filter(body_site == "stool") |>
  dplyr::select(where(~ !base::all(base::is.na(.x)))) |>
  returnSamples("relative_abundance")
```

sampleMetadata	<i>Manually Curated Sample Metadata</i>
----------------	---

Description

Manually curated sample metadata for all samples in curatedMetagenomicData.

Usage

```
sampleMetadata
```

Format

An object of class `data.frame` with 22588 rows and 141 columns.

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- sampleMetadata, 2, 3, 17, 18
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- ZeeviD_2015.pathabundance_relab.stool
(curatedMetagenomicData-defunct),
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- ZeeviD_2015.pathcoverage.stool
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- ZellerG_2014.genefamilies_relab.stool
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- ZellerG_2014.marker_abundance.stool
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