Package 'msd16s'

April 20, 2016

Description

Data used in 'Diarrhea in young children from low-income countries leads to large-scale alterations in intestinal microbiota composition'. Measurements are number of reads clustered into OTUs (operatonal taxanomic units) by DNAClust.

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Author(s)

Joseph N. Paulson

References

Diarrhea in young children from low-income countries leads to large-scale alterations in intestinal microbiota composition.

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Curated dataset of many healthy and moderate-to-severe diarretic gut 16s samples on the 454 FLEX platform.

Description

Data used in 'Diarrhea in young children from low-income countries leads to large-scale alterations in intestinal microbiota composition'. Measurements are number of reads annotated for a particular cluster within a given sample followed by filtering. Sequencing was performed on the 454 Flex platform.

format

Data is stored as an MRexperiment-class object. Using MRcounts one can obtain the 16S count matrix produced using using DNAclust (http://dnaclust.sourceforge.net/). The pData function accesses a data frame with the following columns:

Type: Status of samples: Case, Control

Country: Country of origin

Age: Month

AgeFactor: Month group

Dysentery: Dysentteric (1) non-dysenterric (0) indicator

The fData function accesses a data frame with the following columns:

OTU: OTU cluster id

Taxonomy: Full taxonomic profile superkingdom: superkingdom

phylum: phylum class: class order: order family: family genus: genus species: species

clusterCenter: The OTU cluster's representative sequence

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References

'Diarrhea in young children from low-income countries leads to large-scale alterations in intestinal microbiota composition'

See Also

MRexperiment-class for the class definition, cumNorm to normalize the counts.

Examples

```
data(msd16s)
head(pData(msd16s))
head(fData(msd16s))
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