

Package ‘rRDPData’

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Title Databases for the Default RDP Classifier

Description The package provides the data for the RDP Classifier 2.14 released in August 2023. It contains the latest bacterial and archaeal taxonomy training set No. 19 as described in Wang Q, Cole JR. 2024. Updated RDP taxonomy and RDP Classifier for more accurate taxonomic classification. Microbiol Resour Announc 0:e01063-23. <doi.org/10.1128/mra.01063-23>

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biocViews SequencingData, MicrobiomeData, RNASeqData

Bugreports <https://github.com/mhahsler/rRDP/issues>

URL <https://github.com/mhahsler/rRDP>

Depends rRDP

License GPL-2

PackageStatus Deprecated

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Description

Model data for the RDP Classifier 2.14 released in August 2023. The classifier is trained with the latest bacterial and archaeal taxonomy training set No. 19. See Wang and Cole (2024).

16SrRNA is the default model data used by the classifier in package ‘rRDP’.

Details

`rdp()` creates a default classifier using this data set.

The model data is stored in `system.file("extdata", package="rRDPData")` and consists of several files in proprietary format used by the RDP software. Since RDP is a naive Bayes classifier the data mainly contain conditional word (8-mer) probabilities.

References

RDP Classifier <http://sourceforge.net/projects/rdp-classifier/>

Qiong W. and Cole J.R. Updated RDP taxonomy and RDP Classifier for more accurate taxonomic classification, Microbial Ecology, Announcement, 4 March 2024. doi:[10.1128/mra.0106323](https://doi.org/10.1128/mra.0106323)

Examples

```
### Use the RDP with the default classifier model data
cl_16S <- rdp()
cl_16S

seq <- readRNAStringSet(system.file("examples/RNA_example.fasta",
  package="rRDP"))

## shorten names
names(seq) <- sapply(strsplit(names(seq), " "), "[", 1)
seq

## use RDP for classification
pred <- predict(cl_16S, seq)
pred

attr(pred, "confidence")

### Query a different model

## List all available models
dir(system.file("extdata", package="rRDPData"))

cl_fungus <- rdp(system.file("extdata", "fungallsu", package="rRDPData"))
cl_fungus

pred <- predict(cl_fungus, seq)
pred
```

```
attr(pred, "confidence")
```

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* **model**

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