Package ‘crisprScoreData’

May 2, 2024

Version 1.8.0
Date 2022-10-12
Title Pre-trained models for the crisprScore package
Depends ExperimentHub
Imports AnnotationHub, utils
Suggests BiocStyle, knitr, rmarkdown, testthat
biocViews ExperimentHub, Homo_sapiens_Data
Description Provides an interface to access pre-trained models for on-target and off-target gRNA activity prediction algorithms implemented in the crisprScore package. Pre-trained model data are stored in the ExperimentHub database. Users should consider using the crisprScore package directly to use and load the pre-trained models.
License MIT + file LICENSE
Encoding UTF-8
RoxygenNote 7.1.2
VignetteBuilder knitr

BugReports https://github.com/crisprVerse/crisprScoreData
URL https://github.com/crisprVerse/crisprScoreData/issues
git_url https://git.bioconductor.org/packages/crisprScoreData
git_branch RELEASE_3_19
git_last_commit 2dfb8bb
git_last_commit_date 2024-04-30
Repository Bioconductor 3.19
Date/Publication 2024-05-02
Author Jean-Philippe Fortin [aut, cre, cph]
Maintainer Jean-Philippe Fortin <fortin946@gmail.com>
Pretrained models for several crisprScore prediction algorithms

Description

Pretrained models for DeepHF and Lindel on-target prediction algorithms for Cas9 gRNA performance to be used by crisprScore package. Data were obtained using the script `inst/scripts/make-data.R`.

Usage

```r
DeepWt.hdf5(metadata=FALSE)
DeepWt_T7.hdf5(metadata=FALSE)
DeepWt_U6.hdf5(metadata=FALSE)
hf_rnn_model.hdf5(metadata=FALSE)
esp_rnn_model.hdf5(metadata=FALSE)
Model_weights.pkl(metadata=FALSE)
CRISPRa_model.pkl(metadata=FALSE)
CRISPRI_model.pkl(metadata=FALSE)
RFcombined.rds(metadata=FALSE)
```

Arguments

- `metadata` logical value indicating whether metadata only should be returned or if the resource should be loaded. Default behavior (metadata=FALSE) loads the data.

Format

- character

Value

These accessor functions return characters specifying path of the files

References


crisprScoreData

Examples

DeepWt.hdf5()
Index

* datasets
  crisprScoreData, 2

CRISPRa_model.pkl (crisprScoreData), 2
CRISPRi_model.pkl (crisprScoreData), 2
crisprScoreData, 2
crisprScoreData-package
  (crisprScoreData), 2

DeepWt.hdf5 (crisprScoreData), 2
DeepWt_T7.hdf5 (crisprScoreData), 2
DeepWt_U6.hdf5 (crisprScoreData), 2

esp_rnn_model.hdf5 (crisprScoreData), 2
hf_rnn_model.hdf5 (crisprScoreData), 2
Model_weights.pkl (crisprScoreData), 2
RFcombined.rds (crisprScoreData), 2