Package 'SweepDiscovery'

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Type Package
Title Selective Sweep Discovery Tool
Version 0.1.1
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Description Selective sweep is a biological phenomenon in which genetic variation between neighboring beneficial mutant alleles is swept away due to the effect of genetic hitchhiking. Detection of selective sweep is not well acquainted as well as it is a laborious job. This package is a user friendly approach for detecting selective sweep in genomic regions. It uses a Random Forest based machine learning approach to predict selective sweep from VCF files as an input. Input of this function, train data and new data, can be computed using the project https://github.com/AbhikSarkar1999/SweepDiscovery in 'GitHub'. This package has been developed by using the concept of Pavlidis and Alachiotis (2017) doi:10.1186/s40709-017-0064-0> .
License GPL-3
Encoding UTF-8
RoxygenNote 7.2.1
Imports stats, utils, randomForest
NeedsCompilation no
Depends R (>= 3.5.0)
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 ${\tt SweepPrediction}$

SweepPrediction

Description

SweepPrediction

Usage

```
SweepPrediction(Traindata = NULL, Newdata)
```

Arguments

Traindata Dataset for training
Newdata New data for prediction

Value

• Prediction: Results

References

 Pavlidis, P., Alachiotis, N. A survey of methods and tools to detect recent and strong positive selection. J of Biol Res-Thessaloniki 24, 7 (2017). https://doi.org/10.1186/s40709-017-0064-0

Examples

```
library("SweepDiscovery")
data <- system.file("extdata", "data.csv", package = "SweepDiscovery")
Data<- read.csv(data)
pred<-SweepPrediction(Traindata=NULL, Newdata=Data)</pre>
```

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