Package: haplotyper (via r-universe)

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Type Package

Title Tool for Clustering Genotypes in Haplotypes

Version 0.1

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Description Function to identify haplotypes within QTL (Quantitative
Trait Loci). One haplotype is a combination of SNP (Single
Nucleotide Polymorphisms) within the QTL. This function groups
together all individuals of a population with the same
haplotype. Each group contains individual with the same allele
in each SNP, whether or not missing data. Thus, haplotyper
groups individuals, that to be imputed, have a non-zero
probability of having the same alleles in the entire sequence
of SNP's. Moreover, haplotyper calculates such probability from
relative frequencies.

Depends R (>= 2.10)

License GPL-3

LazyData TRUE

RoxygenNote 5.0.1

Suggests knitr, rmarkdown, testthat

VignetteBuilder knitr

Imports graphics, utils

NeedsCompilation no

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Repository https://gastonquero.r-universe.dev

RemoteUrl https://github.com/cran/haplotyper

RemoteRef HEAD

RemoteSha 9537d5ab5f33d18d503909fb60d6e5ae1d222ead

Contents

haplotyper	*haplotyper function identifies haplotypes within QTL.*

Description

This function groups together all individuals of a population with the same haplotype.

Usage

```
haplotyper(x, Print = FALSE)
```

Arguments

x	a data.frame that should be loaded with read.table function. Each row represents the individuals while each column represents the markers. The first column contains the names of the genotypes.
Print	option for print the haplotyper result. The default is FALSE

Details

Each group contains individual with the same allele in each SNP, whether or not missing data.

Value

a matrix with the haplotypes

Author(s)

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See Also

read.table function

Examples

```
## Not run:
data(rice_qtl)
haplotyper(rice_qtl)

## End(Not run)
```

---

rice_qtl   *Real experimental data*

Description

The data is a QTL for rice Grain Quality

Usage

```
rice_qtl
```

Format

A data frame 326 rows (individual) and 38 variables (SNPs)

Source

Uruguayan Rice Breeding GWAS (URiB)

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sim_qtl   *simple QTL simulated*

Description

A dataset containing the marcadores

Usage

```
sim_qtl
```

Format

A data frame 5 rows (individuals) and 7 variables (snps)

Source

simulated data

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