Package 'GWAStest'

| | March 17, 2020 | | |
|--|----------------|--------------------------------|---------------|
| Type Package | | | |
| Title this package test our ability in making packages (Title Case) Version 0.1.0 Author Lance Merrick, Samuel Prather Maintainer Samuel Prather <stp4freedom@gmail.com> Description This package is a test for hw4 in crop_sci_545 class More about what it does (maybe more than one line Use four spaces when indenting paragraphs within the Description. License What license is it under? Encoding UTF-8 LazyData true RoxygenNote 7.0.2</stp4freedom@gmail.com> | | | |
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| | | R topics documented: GWAStest | |
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| | | GWAStest | GWAS with PCA |
| | | Description | |
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| | | GWAS with PCA | |
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power.fdr

Arguments

phenotypes file with numeric phenotypic values

genotypes data.frame with genotype calls coded as 0,1,2.

Cov numeric data.frame with covariates values

GM genetic map of data with chr and position of each SNP PCA.M number of principal components to use default is 3

QTN.position posistion of QTN if applicable

cutoff If cutoff is default, uses Bonferroni; else uses -log(value) of 0.05/number of

SNPs

Value

Manhatten plot, QQ plot plus p-values, type-1 error and power for every SNP

power.fdr Function to caculate power, FDR and type-1 error

Description

Function to caculate power, FDR and type-1 error

Usage

```
power.fdr(order.SNP, QTN.position = NULL)
```

Arguments

order. SNP list of SNPs order by ascending p-value

QTN.position position of QTN if known

Value

list of power, FDR and type-1 error

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