Package 'MAGEIT'

October 26, 2023

Title Detection of interactions between genetic marker sets and an environmental factor.

Version 0.0.0.9000

Description Detection of interactions between genetic marker sets and an environmental factor.

License GPL (>= 2)

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.2.3

LinkingTo Rcpp, RcppArmadillo

Imports CompQuadForm,
Rcpp,
RcppArmadillo,
truncnorm

R topics documented:

`MAGE_FIX_REAL.B` *MAGEIT_FIX to test GE for binary trait*

Description

MAGEIT_FIX to test GE for binary trait

Usage

```
MAGE_FIX_REAL.B(y, X, e1, G)
```

Arguments

y	binary outcome
X	covariance matrix
e1	environmental vector
G	genetic matrix

Value

p value

MAGE_FIX_REAL.C *MAGEIT_FIX to test GE for continuous trait*

Description

MAGEIT_FIX to test GE for continuous trait

Usage

```
MAGE_FIX_REAL.C(y, X, e1, G)
```

Arguments

y	continuous outcome
X	covariance matrix
e1	environmental vector
G	genetic matrix

Value

p value

MAGE_RAN_REAL.B *MAGEIT_RAN to test GE for binary trait*

Description

MAGEIT_RAN to test GE for binary trait

Usage

```
MAGE_RAN_REAL.B(y, X, e1, G, n.cov)
```

Arguments

y	binary outcome
X	covariance matrix
e1	environmental vector
G	genetic matrix
n.cov	number of covariate factor

Value

p value

MAGE_RAN_REAL.C *MAGEIT_RAN to test GE for continuous trait*

Description

MAGEIT_RAN to test GE for continuous trait

Usage

```
MAGE_RAN_REAL.C(y, X, e1, G, n.cov)
```

Arguments

y	continuous outcome
X	covariance matrix
e1	environmental vector
G	genetic matrix
n.cov	number of covariance factor

Value

p value

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