R documentation

of all in './man'

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2 getN_Bin_Equi

combine_matrix

Title

Description

Title

Usage

```
combine_matrix(A, B)
```

Arguments

b

getN_Bin_Equi

Title

Description

Title

Usage

```
getN_Bin_Equi(p1, p0, cut, alpha, beta, N, r, direct = 1)
```

Arguments

direct

```
(v <- getN_Bin_Noninf(
   p1 = 0.4, p0 = 0.45, cut = 0.2, alpha = 0.025,
   beta = 0.2, N = NA, r = 1
))
getN_Bin_Noninf(
   p1 = 0.4, p0 = 0.45, cut = 0.2, alpha = 0.025,
   beta = NA, N = v$N, r = 1
)</pre>
```

getN_Bin_Noninf 3

getN_Bin_Noninf

Title

Description

Title

Usage

```
getN_Bin_Noninf(p1 = p1, p0 = p0, cut, alpha, beta, N, r, direct = 1)
```

Arguments

direct

Examples

```
(v <- getN_Bin_Noninf(
   p1 = 0.4, p0 = 0.45, cut = 0.2, alpha = 0.025,
   beta = 0.2, N = NA, r = 1
))
getN_Bin_Noninf(
   p1 = 0.4, p0 = 0.45, cut = 0.2, alpha = 0.025,
   beta = NA, N = v$N, r = 1
)</pre>
```

getN_Bin_Super

Title

Description

Title

Usage

```
getN_Bin_Super(p1, p0, alpha, beta, N, r, direct = 1)
```

Arguments

direct

```
(v <- getN_Bin_Super(
  p1 = 0.4, p0 = 0.2, alpha = 0.025,
  beta = 0.2, N = NA, r = 1
))
getN_Bin_Super(
  p1 = 0.4, p0 = 0.2, alpha = 0.025,
  beta = NA, N = v$N, r = 1
)</pre>
```

getN_Con_Noninf

getN_Con_Equi

Title

Description

Title

Usage

```
getN_Con_Equi(delta, sigma, cut, alpha, beta, N, r, direct = 1)
```

Arguments

direct

Examples

```
(v <- getN_Con_Noninf(
  delta = 0, sigma = 2, cut = 1, alpha = 0.025,
  beta = 0.2, N = NA, r = 1
))
getN_Con_Noninf(
  delta = 0, sigma = 2, cut = 1, alpha = 0.025,
  beta = NA, N = v$N, r = 1
)</pre>
```

getN_Con_Noninf

Title

Description

Title

Usage

```
getN_Con_Noninf(delta, sigma, cut, alpha, beta, N, r, direct = 1)
```

Arguments

direct

```
(v <- getN_Con_Noninf(
  delta = 0, sigma = 2, cut = 1, alpha = 0.025,
  beta = 0.2, N = NA, r = 1
))
getN_Con_Noninf(
  delta = 0, sigma = 2, cut = 1, alpha = 0.025,
  beta = NA, N = v$N, r = 1
)</pre>
```

getN_Con_Super 5

getN_Con_Super

Title

Description

Title

Usage

```
getN_Con_Super(delta, sigma, alpha, beta, N, r, direct = 1)
```

Arguments

direct

Examples

```
(v <- getN_Con_Super(
  delta = 1, sigma = 4, alpha = 0.025,
  beta = 0.2, N = NA, r = 1
))
getN_Con_Super(
  delta = 1, sigma = 4, alpha = 0.025,
  beta = NA, N = v$N, r = 1
)</pre>
```

getN_Con_Super_JM1

Title

Description

Title

Usage

```
getN_Con_Super_JM1(
  delta_j,
  delta_nj,
  sigma,
  pi,
  alpha,
  beta1,
  N,
  r,
  direct = 1
)
```

Arguments

direct

6 getN_Surv_Noninf

Examples

```
getN_Con_Super_JM1(
  delta_j = 0.5, delta_nj = 0.7, sigma = 1,
  pi = 0.5, alpha = 0.025, beta1 = 0.2, N = seq(100, 400, 100), r = 1, direct = 1
)
```

getN_Surv_Equi

Title

Description

Title

Usage

```
getN_Surv_Equi(delta, cut, alpha, beta, N, r, direct = 1)
```

Arguments

direct

Examples

```
(v <- getN_Surv_Equi(
  delta = log(1.1), cut = log(1.2), alpha = 0.025,
  beta = 0.2, N = NA, r = 1
))
getN_Surv_Equi(
  delta = log(1.1), cut = log(1.2), alpha = 0.025,
  beta = NA, N = v$N, r = 1
)</pre>
```

getN_Surv_Noninf

Title

Description

Title

Usage

```
getN_Surv_Noninf(delta, cut, alpha, beta, N, r, direct = 1)
```

Arguments

direct

getN_Surv_Super 7

Examples

```
(v <- getN_Surv_Noninf(
  delta = log(1.1), cut = log(1.2), alpha = 0.025,
  beta = 0.2, N = NA, r = 1
))
getN_Surv_Noninf(
  delta = log(1.1), cut = log(1.2), alpha = 0.025,
  beta = NA, N = v$N, r = 1
)</pre>
```

getN_Surv_Super

Title

Description

Title

Usage

```
getN_Surv_Super(delta, alpha, beta, N, r, direct = -1)
```

Arguments

direct

Examples

```
(v <- getN_Surv_Super(
  delta = log(0.8), alpha = 0.025,
  beta = 0.2, N = NA, r = 1
))
getN_Surv_Super(
  delta = log(0.8), alpha = 0.025,
  beta = NA, N = v$N, r = 1
)</pre>
```

getPwr_Bin_Equi_JM1 Title

Description

Title

Usage

```
getPwr_Bin_Equi_JM1(
    p1_j,
    p0_j,
    p1_nj,
    p0_nj,
    f,
    pi,
    cut,
    alpha,
    N,
    r,
    sim = FALSE,
    nsim = 1000,
    seed = 0
)
```

Arguments

seed

Examples

```
getPwr_Bin_Equi_JM1(
   p1_j = 0.55, p0_j = 0.65, p1_nj = 0.65, p0_nj = 0.65,
   f = seq(0.1, 0.9, 0.1), pi = 0.5,
   cut = 0.2, alpha = 0.025, N = 400, r = 1, sim = FALSE
)
```

```
getPwr_Bin_Equi_JM2
Title
```

Description

Title

Usage

```
getPwr_Bin_Equi_JM2(
  pt_i,
  pc_i,
  fi,
  cut,
  alpha,
  N,
  r,
  sim = FALSE,
  nsim = 1000,
  seed = 0
)
```

Arguments

seed

Examples

```
f_set <- seq(0.1, 0.9, 0.1)
map_dfr(.x = 1:length(f_set), .f = function(i) {
    f <- f_set[i]
    res <- getPwr_Bin_Equi_JM2(
        pt_i = c(0.5, 0.6),
        pc_i = c(0.6, 0.6),
        fi = c(f, 1 - f), cut = 0.3,
        alpha = 0.025, N = 100, r = 1, sim = FALSE
    )$overall
    res$M <- "calc"
    res$f <- f
    res
})</pre>
```

getPwr_Bin_Noninf_JM1 Title

Description

Title

Usage

```
getPwr_Bin_Noninf_JM1(
  p1_j,
  p0_j,
  p1_nj,
  p0_nj,
  f,
  рi,
  cut,
  alpha,
  Ν,
  r,
  direct = 1,
  sim = FALSE,
  nsim = 1000,
  seed = 0
)
```

Arguments

seed

Examples

```
getPwr_Bin_Noninf_JM1(
  p1_j = 0.55, p0_j = 0.65, p1_nj = 0.65, p0_nj = 0.65,
  f = seq(0.1, 0.9, 0.1), pi = 0.5,
  cut = 0.2, alpha = 0.025, N = 400, r = 1,
  direct = 1, sim = FALSE
)
```

getPwr_Bin_Noninf_JM2 Title

Description

Title

Usage

```
getPwr_Bin_Noninf_JM2(
  pt_i,
  pc_i,
  fi,
  cut,
  alpha,
  N,
  r,
  direct = 1,
  sim = FALSE,
  nsim = 1000,
  seed = 0
)
```

Arguments

seed

```
f_set <- seq(0.1, 0.9, 0.1)
map_dfr(.x = 1:length(f_set), .f = function(i) {
    f <- f_set[i]
    res <- getPwr_Bin_Noninf_JM2(
        pt_i = c(0.5, 0.6),
        pc_i = c(0.6, 0.6),
        fi = c(f, 1 - f), cut = 0.3,
        alpha = 0.025, N = 100, r = 1, direct = 1, sim = FALSE
)$overall
    res$M <- "calc"
    res$f <- f
    res
})</pre>
```

```
getPwr_Bin_Super_JM1 Title
```

Description

Title

Usage

```
getPwr_Bin_Super_JM1(
    p1_j,
    p0_j,
    p1_nj,
    p0_nj,
    f,
    pi,
    alpha,
    N,
    r,
    direct,
    sim = FALSE,
    nsim = 1000,
    seed = 0
)
```

Arguments

seed

Examples

```
getPwr_Bin_Super_JM1(
   p1_j = 0.35, p0_j = 0.5, p1_nj = 0.25, p0_nj = 0.5,
   f = seq(0.1, 0.9, 0.1),
   pi = 0.5, alpha = 0.025, N = 200, r = 1, direct = -1, sim = FALSE
)
```

```
getPwr_Bin_Super_JM2 Title
```

Description

Title

Usage

```
getPwr_Bin_Super_JM2(
  pt_i,
  pc_i,
  fi,
  alpha,
  N,
  r,
  direct = 1,
  sim = FALSE,
  nsim = 1000,
  seed = 0
)
```

Arguments

seed

Examples

```
f_set <- seq(0.1, 0.9, 0.1)
map_dfr(.x = 1:length(f_set), .f = function(i) {
    f <- f_set[i]
    res <- getPwr_Bin_Super_JM2(
        pt_i = c(0.3, 0.4),
        pc_i = c(0.6, 0.6),
        fi = c(f, 1 - f),
        alpha = 0.025, N = 100, r = 1, direct = -1, sim = FALSE
)$overall
    res$M <- "calc"
    res$f <- f
    res
})</pre>
```

getPwr_Con_Equi_JM1 Title

Description

Title

Usage

```
getPwr_Con_Equi_JM1(
  delta_j,
  delta_nj,
  sigma,
  f,
  pi,
  cut,
  alpha,
  N,
```

```
r,
    sim = FALSE,
    nsim = 1000,
    seed = 0
)
```

Arguments

seed

Examples

```
getPwr_Con_Equi_JM1(
  delta_j = -0.2, delta_nj = -0.1, sigma = 1,
  f = seq(0.1, 0.9, 0.1), pi = 0.5, cut = 0.4, alpha = 0.025,
  N = 400, r = 1, sim = FALSE
)
```

Description

Title

Usage

```
getPwr_Con_Equi_JM2(
  delta_i,
    sigma,
    fi,
    cut,
    alpha,
    N,
    r,
    sim = FALSE,
    nsim = 1000,
    seed = 0
)
```

Arguments

seed

```
f_set <- seq(0.1, 0.9, 0.1)
map_dfr(.x = 1:length(f_set), .f = function(i) {
    f <- f_set[i]
    res <- getPwr_Con_Equi_JM2(
        delta_i = c(-0.5, 0), sigma = 4,
        fi = c(f, 1 - f), cut = 2,
        alpha = 0.025, N = 200, r = 1, sim = FALSE</pre>
```

```
)$overall
res$M <- "calc"
res$f <- f
res
})</pre>
```

getPwr_Con_Noninf_JM1 Title

Description

Title

Usage

```
getPwr_Con_Noninf_JM1(
  delta_j,
  delta_nj,
  sigma,
  f,
  pi,
  cut,
  alpha,
  N,
  r,
  direct = 1,
  sim = FALSE,
  nsim = 1000,
  seed = 0
)
```

Arguments

seed

```
getPwr_Con_Noninf_JM1(
  delta_j = -0.2, delta_nj = -0.1, sigma = 1,
  f = seq(0.1, 0.9, 0.1), pi = 0.5, cut = 0.4, alpha = 0.025,
  N = 400, r = 1, direct = 1, sim = FALSE
)
```

```
getPwr_Con_Noninf_JM2 Title
```

Description

Title

Usage

```
getPwr_Con_Noninf_JM2(
  delta_i,
  sigma,
  fi,
  cut,
  alpha,
  N,
  r,
  direct = 1,
  sim = FALSE,
  nsim = 1000,
  seed = 0
)
```

Arguments

seed

Examples

```
f_set <- seq(0.1, 0.9, 0.1)
map_dfr(.x = 1:length(f_set), .f = function(i) {
    f <- f_set[i]
    res <- getPwr_Con_Noninf_JM2(
        delta_i = c(-0.5, 0), sigma = 4,
        fi = c(f, 1 - f), cut = 2,
        alpha = 0.025, N = 200, r = 1, direct = 1, sim = FALSE
)$overall
    res$M <- "calc"
    res$f <- f
    res
})</pre>
```

```
getPwr_Con_Super_JM1 Title
```

Description

Title

Usage

```
getPwr_Con_Super_JM1(
   delta_j,
   delta_nj,
   sigma,
   f,
   pi,
   alpha,
   N,
   r,
   direct = 1,
   sim = FALSE,
   nsim = 1000,
   seed = 0
)
```

Arguments

seed

Examples

```
getPwr_Con_Super_JM1(
  delta_j = 0.5, delta_nj = 0.7, sigma = 1,
  f = seq(0.1, 0.9, 0.1),
  pi = 0.5, alpha = 0.025, N = 100, r = 1, direct = 1, sim = FALSE
)
```

```
getPwr_Con_Super_JM2 Title
```

Description

Title

Usage

```
getPwr_Con_Super_JM2(
  delta_i,
  sigma,
  fi,
  alpha,
  N,
  r,
  direct = 1,
  sim = FALSE,
  nsim = 1000,
  seed = 0
)
```

Arguments

seed

Examples

```
f_set <- seq(0.1, 0.9, 0.1)
map_dfr(.x = 1:length(f_set), .f = function(i) {
    f <- f_set[i]
    res <- getPwr_Con_Super_JM2(
        delta_i = c(1, 0.8), sigma = 4,
        fi = c(f, 1 - f),
        alpha = 0.025, N = 200, r = 1, direct = 1, sim = FALSE
    )$overall
    res$M <- "calc"
    res$f <- f
    res
})</pre>
```

```
{\tt getPwr\_Surv\_Equi\_JM1} \qquad \textit{Title}
```

Description

Title

Usage

```
getPwr_Surv_Equi_JM1(
  delta_j,
  delta_nj,
  f,
  pi,
  cut,
  alpha,
  N,
  r,
  lambda0_j = 1,
  lambda0_nj = 1,
  sim = FALSE,
  nsim = 1000,
  seed = 0
)
```

Arguments

seed

Examples

```
getPwr_Surv_Equi_JM1(
  delta_j = log(1.1), delta_nj = log(1.0),
  f = seq(0.1, 0.9, 0.1), cut = log(1.3),
  pi = 0.5, alpha = 0.025, N = 400, r = 1, sim = FALSE
)
```

```
getPwr_Surv_Equi_JM2 Title
```

Description

Title

Usage

```
getPwr_Surv_Equi_JM2(
  delta_i,
  fi,
  cut,
  alpha,
  N,
  r,
  direct = -1,
  lambda0_i = 1,
  sim = FALSE,
  nsim = 1000,
  seed = 0
)
```

Arguments

seed

```
f_set <- seq(0.1, 0.9, 0.1)
map_dfr(.x = 1:length(f_set), .f = function(i) {
    f <- f_set[i]
    res <- getPwr_Surv_Equi_JM2(
        delta_i = c(log(1.1), log(1.0)),
        fi = c(f, 1 - f), cut = log(1.3),
        alpha = 0.025, N = 300, r = 1, direct = -1, sim = FALSE
)$overall
    res$M <- "calc"
    res$f <- f
    res
})</pre>
```

```
{\tt getPwr\_Surv\_Noninf\_JM1} \\ {\it Title}
```

Description

Title

Usage

```
getPwr_Surv_Noninf_JM1(
  delta_j,
  delta_nj,
  f,
  pi,
  cut,
  alpha,
  N,
  r,
  direct = -1,
  lambda0_j = 1,
  lambda0_nj = 1,
  sim = FALSE,
  nsim = 1000,
  seed = 0
)
```

Arguments

direct

Examples

```
getPwr_Surv_Noninf_JM1(
  delta_j = log(1.1), delta_nj = log(1.0),
  f = seq(0.1, 0.9, 0.1), cut = log(1.3),
  pi = 0.5, alpha = 0.025, N = 400, r = 1,
  direct = -1, sim = FALSE
)
```

```
{\tt getPwr\_Surv\_Noninf\_JM2}
```

Title

Description

Title

Usage

```
getPwr_Surv_Noninf_JM2(
  delta_i,
  fi,
  cut,
  alpha,
  N,
  r,
  direct = -1,
  lambda0_i = 1,
  sim = FALSE,
  nsim = 1000,
  seed = 0
)
```

Arguments

seed

Examples

```
f_set <- seq(0.1, 0.9, 0.1)
map_dfr(.x = 1:length(f_set), .f = function(i) {
    f <- f_set[i]
    res <- getPwr_Surv_Noninf_JM2(
        delta_i = c(log(1.1), log(1.0)),
        fi = c(f, 1 - f), cut = log(1.3),
        alpha = 0.025, N = 300, r = 1, direct = -1, sim = FALSE
) $ overall
    res$M <- "calc"
    res$f <- f
    res
})</pre>
```

getPwr_Surv_Super_JM1 Title

Description

Title

Usage

```
getPwr_Surv_Super_JM1(
  delta_j,
  delta_nj,
  f,
  pi,
  alpha,
  N,
  r,
  criterion,
```

```
direct = -1,
  lambda0_j = 1,
  lambda0_nj = 1,
  sim = FALSE,
  nsim = 1000,
  seed = 0
)
```

Arguments

seed

Examples

```
getPwr_Surv_Super_JM1(
  delta_j = log(0.8), delta_nj = log(0.6),
  f = seq(0.1, 0.9, 0.1),
  pi = 0.5, alpha = 0.025, N = 200, r = 1,
    criterion = 1, direct = -1, sim = FALSE
```

getPwr_Surv_Super_JM2 Title

Description

Title

Usage

```
getPwr_Surv_Super_JM2(
  delta_i,
  fi,
  alpha,
  N,
  r,
  direct = -1,
  lambda0_i = 1,
  sim = FALSE,
  nsim = 1000,
  seed = 0
)
```

Arguments

seed

```
f_set <- seq(0.1, 0.9, 0.1)
map_dfr(.x = 1:length(f_set), .f = function(i) {
    f <- f_set[i]
    res <- getPwr_Surv_Super_JM2(
        delta_i = c(log(0.8), log(0.6)),
        fi = c(f, 1 - f),
        alpha = 0.025, N = 300, r = 1, direct = -1, sim = FALSE
)$overall
    res$M <- "calc"
    res$f <- f
    res
})</pre>
```

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