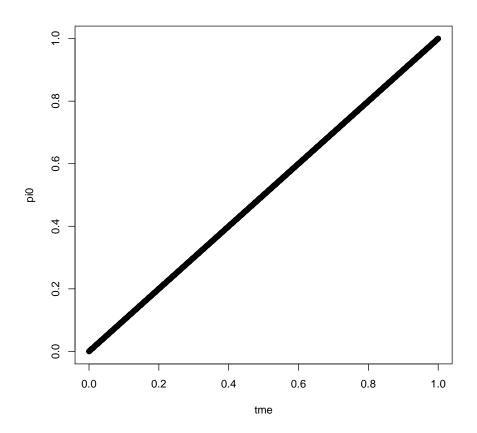
```
## Load libraries
library(splines)
library(MASS)
library(doParallel) ##to make cluster (on Windows)
## Loading required package: foreach
## Loading required package: iterators
## Loading required package: parallel
library(foreach) ##to use foreach function that does the parallel processing
library(doRNG) ##for reproducible seeds when doing parallel processing
## Loading required package: rngtools
## Warning: package 'rngtools' was built under R version 3.3.2
## Loading required package: pkgmaker
## Warning: package 'pkgmaker' was built under R version 3.3.2
## Loading required package: registry
## Warning: package 'registry' was built under R version 3.3.2
##
## Attaching package: 'pkgmaker'
## The following object is masked from 'package:base':
##
##
      is Names pace Loaded
##Source functions
source("../functions.R")
## Define the number of tests
ntest <- 10000
## Set number of simulations
nSims <- 200
```

Do the simulations for a variety of alternative distributions:

1 Probability of being a false positive is linear



Session info:

```
devtools::session_info()
## Session info -----
   setting value
   version R version 3.3.1 (2016-06-21)
   system x86_64, mingw32
##
## ui
           RTerm
##
   language (EN)
##
   collate English_United States.1252
           America/New_York
##
   tz
   date
           2018-08-31
## Packages ---
## package * version date
```

```
## codetools 0.2-14 2015-07-15 CRAN (R 3.3.1)
              1.12.0 2016-06-24 CRAN (R 3.3.3)
## devtools
## digest
               0.6.12 2017-01-27 CRAN (R 3.3.3)
## doParallel * 1.0.10 2015-10-14 CRAN (R 3.3.1)
##
   doRNG
            * 1.6
                      2014-03-07 CRAN (R 3.3.1)
                      2016-10-11 CRAN (R 3.3.1)
##
   evaluate
             0.10
             * 1.4.3
                      2015-10-13 CRAN (R 3.3.1)
##
   foreach
## highr
             0.6
                      2016-05-09 CRAN (R 3.3.1)
   iterators * 1.0.8
                      2015-10-13 CRAN (R 3.3.0)
##
             * 1.17
##
   knitr
                      2017-08-10 CRAN (R 3.3.3)
                      2014-11-22 CRAN (R 3.3.1)
##
   magrittr
             1.5
## MASS
             * 7.3-45 2016-04-21 CRAN (R 3.3.1)
             1.0.0
##
   memoise
                      2016-01-29 CRAN (R 3.3.1)
## pkgmaker * 0.22
                      2014-05-14 CRAN (R 3.3.2)
## registry * 0.3
                      2015-07-08 CRAN (R 3.3.2)
## rngtools
            * 1.2.4 2014-03-06 CRAN (R 3.3.2)
## stringi
             1.1.1
                      2016-05-27 CRAN (R 3.3.0)
## stringr
              1.2.0 2017-02-18 CRAN (R 3.3.3)
## withr
              1.0.2 2016-06-20 CRAN (R 3.3.1)
## xtable
             1.8-2 2016-02-05 CRAN (R 3.3.1)
```