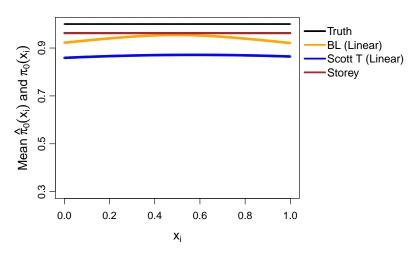
```
## Load libraries
library(splines)
library(MASS)
library(qvalue)

##source functions
source("../functions.R")
```

```
folder <- "global_null"</pre>
load(paste(folder, "simResults_0.RData", sep="/"))
load(paste(folder, "simResults_pi0x_thresh_0.RData", sep="/"))
load(paste(folder, "simResults_pi0x_Scott_emp_0.RData", sep="/"))
load(paste(folder, "simResults_pi0x_Scott_0.RData", sep="/"))
pi0StoreyMean <- mean(apply(pValuesSims, 1, function(p){qvalue(p)$pi0}))</pre>
mean(pi0MeansVars$pi0hatMeanFinal)
## [1] 0.9417961
pi0StoreyMean
## [1] 0.9623823
plotMeanPiO(piO, piOMeansVars, piOhatScottMean, piOStoreyMean, tme=tme, main="Global null",
            ylim=c(0.3,1))
legend("topright", inset=c(-0.45,0),##x=-0.2, y=0.45,##"bottomright", ##x=-100, y=0.3,
       legend=c("Truth",
                "BL (Linear)",
                "Scott T (Linear)",
                "Storey"),
       col=c("black",
             "orange",
             "blue",
             "brown"),
       bty="n",
       lwd=c(3,3,3,3), lty=c(1,1,1,1),
       cex=1.2, x.intersp=0.2, y.intersp=1.0)
```

## Global null



Session info:

```
devtools::session_info()
## Session info ----
    setting value
##
   version R version 3.3.1 (2016-06-21)
##
   system
            x86_64, mingw32
            RTerm
##
   ui
   language (EN)
##
   collate English_United States.1252
##
##
   tz
             America/New_York
##
   date
             2018-10-04
## Packages -----
##
               * version date
   package
                                    source
   colorspace
                1.2-6
                         2015-03-11 CRAN (R 3.3.1)
##
   devtools
                 1.12.0
                        2016-06-24 CRAN (R 3.3.3)
##
   digest
                 0.6.12
                        2017-01-27 CRAN (R 3.3.3)
##
   evaluate
                 0.10
                         2016-10-11 CRAN (R 3.3.1)
   ggplot2
                 2.2.1
                         2016-12-30 CRAN (R 3.3.3)
##
                         2016-02-26 CRAN (R 3.3.1)
   gtable
                 0.2.0
##
##
   highr
                 0.6
                         2016-05-09 CRAN (R 3.3.1)
##
   knitr
                         2017-08-10 CRAN (R 3.3.3)
               * 1.17
##
   lazyeval
                 0.2.0
                         2016-06-12 CRAN (R 3.3.1)
                         2014-11-22 CRAN (R 3.3.1)
##
   magrittr
                 1.5
   MASS
               * 7.3-45 2016-04-21 CRAN (R 3.3.1)
##
```

```
## memoise 1.0.0 2016-01-29 CRAN (R 3.3.1)
## munsell
               0.4.3
                       2016-02-13 CRAN (R 3.3.1)
               1.8.4
                       2016-06-08 CRAN (R 3.3.1)
## plyr
## qvalue
              * 2.4.2
                       2016-05-16 Bioconductor
               0.12.13 2017-09-28 CRAN (R 3.3.3)
##
   Rcpp
               1.4.1
                       2014-12-06 CRAN (R 3.3.1)
##
   reshape2
## rlang
               0.1.4
                       2017-11-05 CRAN (R 3.3.3)
## scales
              0.4.1
                      2016-11-09 CRAN (R 3.3.3)
               1.1.1
                       2016-05-27 CRAN (R 3.3.0)
## stringi
## stringr
               1.2.0
                      2017-02-18 CRAN (R 3.3.3)
## tibble
               1.3.3
                       2017-05-28 CRAN (R 3.3.3)
## withr
               1.0.2 2016-06-20 CRAN (R 3.3.1)
```