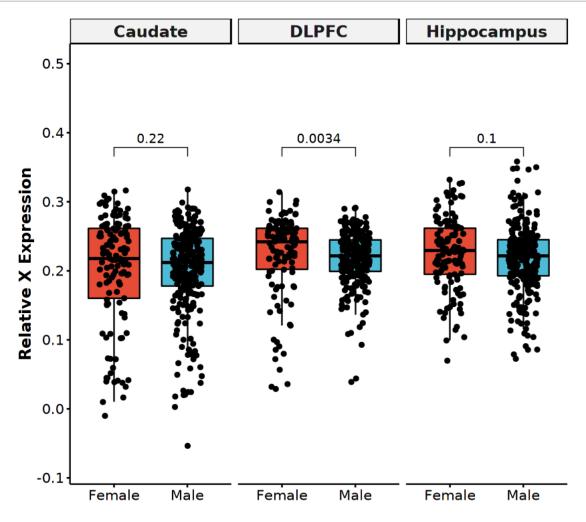
main

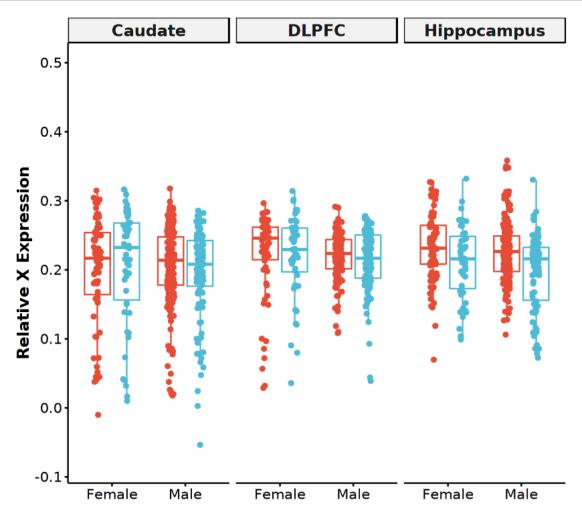
July 10, 2021

1 Plot RXE comparisons

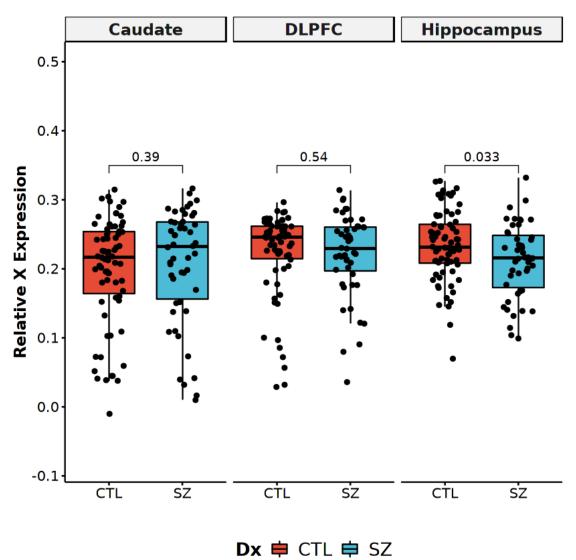
```
[1]: library(ggpubr)
     library(tidyverse)
    Loading required package: ggplot2
      Attaching packages
                                                  tidyverse
    1.3.1
      tibble 3.1.2
                           dplyr
                                   1.0.7
      tidyr
              1.1.3
                           stringr 1.4.0
      readr
              1.4.0
                           forcats 0.5.1
      purrr
              0.3.4
      Conflicts
    tidyverse_conflicts()
      dplyr::filter() masks stats::filter()
      dplyr::lag()
                       masks stats::lag()
[2]: save_ggplots <- function(p, fn, w=7, h=7){
         for(ext in c('.svg', '.png', '.pdf')){
              ggsave(p, filename=paste0(fn, ext), width=w, height=h)
         }
     }
[3]: df = data.table::fread("../../_m/RXE_public.csv") %>%
         mutate if(is.character, as.factor)
     levels(df$Sex) <- c("Female", "Male")</pre>
     levels(df$Dx) <- c("CTL", "SZ")</pre>
     levels(df$Region) <- c("Caudate", "DLPFC", "Hippocampus")</pre>
     df %>% head(2)
                       V1
                                X
                                          autosome
                                                    sample
                                                             RXE
                                                                        Sex
                                                                                 Dx
                                                                                         Region
                       <fct>
                                <dbl>
                                                    <fct>
                                                             <dbl>
                                                                         <fct>
                                                                                 <fct>
                                                                                         <fct>
                                          <dbl>
    A data.table: 2 \times 8
                       R12864
                                3.076746
                                          2.791519
                                                    R12864
                                                             0.2852265
                                                                        Female
                                                                                 \overline{SZ}
                                                                                         Caudate
                                                                                         Caudate
                       R12865
                                                                        Male
                                                                                 SZ
                               3.201302
                                         2.986970
                                                    R12865
                                                             0.2143323
```

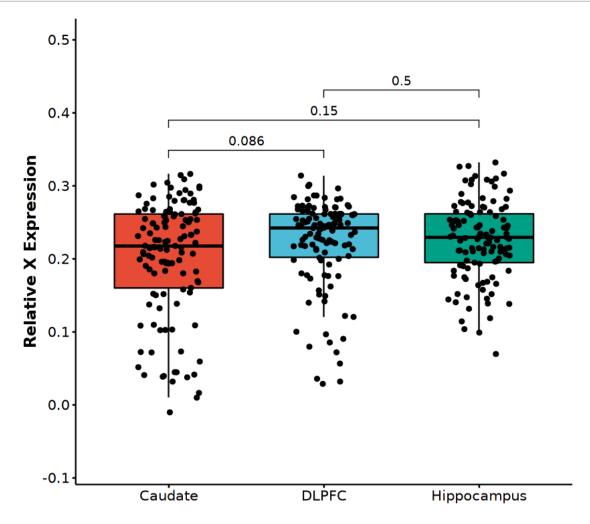


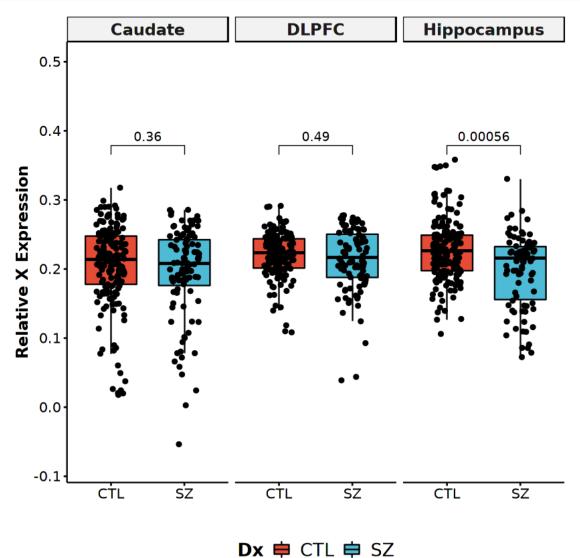
Sex ₱ Female **₱** Male

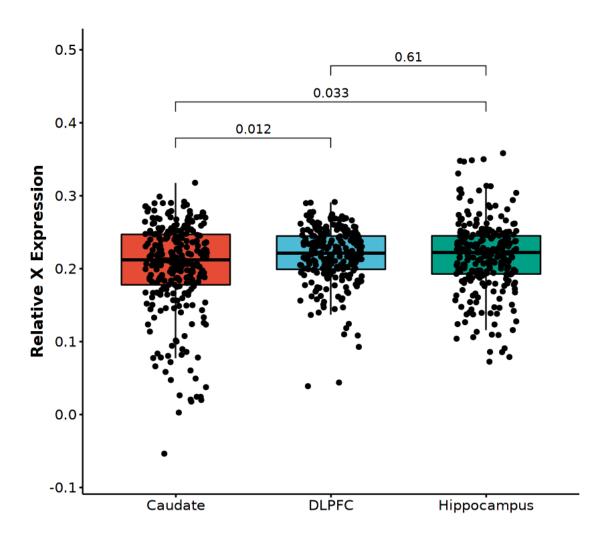


Dx 😑 CTL 😑 SZ









1.1 Repreducibility Information

```
[10]: Sys.time()
    proc.time()
    options(width = 120)
    sessioninfo::session_info()

[1] "2021-07-10 10:08:07 EDT"

    user system elapsed
    15.412    0.419    16.264

    Session info
    setting value
```

version R version 4.0.3 (2020-10-10)

os Arch Linux

system x86_64, linux-gnu

ui X11 language (EN)

collate en_US.UTF-8
ctype en_US.UTF-8
tz America/New_York

date 2021-07-10

Packages

| 1 ackages | | | | | | |
|------------|---|----------|------------|-----|-------|-----------|
| package | * | version | date | lib | sourc | ce |
| abind | | 1.4-5 | 2016-07-21 | [1] | CRAN | (R 4.0.2) |
| assertthat | | 0.2.1 | 2019-03-21 | [1] | CRAN | (R 4.0.2) |
| backports | | 1.2.1 | 2020-12-09 | [1] | CRAN | (R 4.0.2) |
| base64enc | | 0.1-3 | 2015-07-28 | [1] | CRAN | (R 4.0.2) |
| broom | | 0.7.8 | 2021-06-24 | [1] | CRAN | (R 4.0.3) |
| Cairo | | 1.5-12.2 | 2020-07-07 | [1] | CRAN | (R 4.0.2) |
| car | | 3.0-11 | 2021-06-27 | [1] | CRAN | (R 4.0.3) |
| carData | | 3.0-4 | 2020-05-22 | [1] | CRAN | (R 4.0.2) |
| cellranger | | 1.1.0 | 2016-07-27 | [1] | CRAN | (R 4.0.2) |
| cli | | 3.0.0 | 2021-06-30 | [1] | CRAN | (R 4.0.3) |
| colorspace | | 2.0-2 | 2021-06-24 | [1] | CRAN | (R 4.0.3) |
| crayon | | 1.4.1 | 2021-02-08 | [1] | CRAN | (R 4.0.3) |
| curl | | 4.3.2 | 2021-06-23 | [1] | CRAN | (R 4.0.3) |
| data.table | | 1.14.0 | 2021-02-21 | [1] | CRAN | (R 4.0.3) |
| DBI | | 1.1.1 | 2021-01-15 | [1] | CRAN | (R 4.0.2) |
| dbplyr | | 2.1.1 | 2021-04-06 | [1] | CRAN | (R 4.0.3) |
| digest | | 0.6.27 | 2020-10-24 | [1] | CRAN | (R 4.0.2) |
| dplyr | * | 1.0.7 | 2021-06-18 | [1] | CRAN | (R 4.0.3) |
| ellipsis | | 0.3.2 | 2021-04-29 | [1] | CRAN | (R 4.0.3) |
| evaluate | | 0.14 | 2019-05-28 | [1] | CRAN | (R 4.0.2) |
| fansi | | 0.5.0 | 2021-05-25 | [1] | CRAN | (R 4.0.3) |
| farver | | 2.1.0 | 2021-02-28 | [1] | CRAN | (R 4.0.3) |
| forcats | * | 0.5.1 | 2021-01-27 | [1] | CRAN | (R 4.0.2) |
| foreign | | 0.8-80 | 2020-05-24 | [2] | CRAN | (R 4.0.3) |
| fs | | 1.5.0 | 2020-07-31 | [1] | CRAN | (R 4.0.2) |
| generics | | 0.1.0 | 2020-10-31 | [1] | CRAN | (R 4.0.2) |
| ggplot2 | * | 3.3.5 | 2021-06-25 | [1] | CRAN | (R 4.0.3) |
| ggpubr | * | 0.4.0 | 2020-06-27 | [1] | CRAN | (R 4.0.2) |
| ggsci | | 2.9 | 2018-05-14 | [1] | CRAN | (R 4.0.2) |
| ggsignif | | 0.6.2 | 2021-06-14 | [1] | CRAN | (R 4.0.3) |
| glue | | 1.4.2 | 2020-08-27 | [1] | CRAN | (R 4.0.2) |
| gtable | | 0.3.0 | 2019-03-25 | [1] | CRAN | (R 4.0.2) |
| haven | | 2.4.1 | 2021-04-23 | [1] | CRAN | (R 4.0.3) |
| hms | | 1.1.0 | 2021-05-17 | [1] | CRAN | (R 4.0.3) |
| htmltools | | 0.5.1.1 | 2021-01-22 | [1] | CRAN | (R 4.0.2) |
| httr | | 1.4.2 | 2020-07-20 | [1] | CRAN | (R 4.0.2) |

```
IRdisplay
              1.0
                        2021-01-20 [1] CRAN (R 4.0.2)
                        2021-05-11 [1] CRAN (R 4.0.3)
IRkernel
              1.2
jsonlite
              1.7.2
                        2020-12-09 [1] CRAN (R 4.0.2)
labeling
              0.4.2
                        2020-10-20 [1] CRAN (R 4.0.2)
              1.0.0
                        2021-02-15 [1] CRAN (R 4.0.3)
lifecycle
lubridate
              1.7.10
                        2021-02-26 [1] CRAN (R 4.0.3)
magrittr
              2.0.1
                        2020-11-17 [1] CRAN (R 4.0.2)
modelr
              0.1.8
                        2020-05-19 [1] CRAN (R 4.0.2)
munsell
              0.5.0
                        2018-06-12 [1] CRAN (R 4.0.2)
                        2021-06-16 [1] CRAN (R 4.0.3)
openxlsx
              4.2.4
                        2021-02-10 [1] CRAN (R 4.0.3)
pbdZMQ
              0.3 - 5
              1.6.1
                        2021-05-16 [1] CRAN (R 4.0.3)
pillar
              2.0.3
                        2019-09-22 [1] CRAN (R 4.0.2)
pkgconfig
            * 0.3.4
                        2020-04-17 [1] CRAN (R 4.0.2)
purrr
R6
              2.5.0
                        2020-10-28 [1] CRAN (R 4.0.2)
              1.0.7
                        2021-07-07 [1] CRAN (R 4.0.3)
Rcpp
readr
            * 1.4.0
                        2020-10-05 [1] CRAN (R 4.0.2)
              1.3.1
                        2019-03-13 [1] CRAN (R 4.0.2)
readxl
              1.1.3
                        2021-01-21 [1] CRAN (R 4.0.2)
repr
reprex
              2.0.0
                        2021-04-02 [1] CRAN (R 4.0.3)
                        2021-06-21 [1] CRAN (R 4.0.3)
rio
              0.5.27
              0.4.11
                        2021-04-30 [1] CRAN (R 4.0.3)
rlang
rstatix
              0.7.0
                        2021-02-13 [1] CRAN (R 4.0.3)
                        2020-11-12 [1] CRAN (R 4.0.2)
rstudioapi
              0.13
rvest
              1.0.0
                        2021-03-09 [1] CRAN (R 4.0.3)
                        2020-05-11 [1] CRAN (R 4.0.2)
scales
              1.1.1
                        2018-11-05 [1] CRAN (R 4.0.2)
sessioninfo
              1.1.1
stringi
              1.6.2
                        2021-05-17 [1] CRAN (R 4.0.3)
            * 1.4.0
                        2019-02-10 [1] CRAN (R 4.0.2)
stringr
svglite
              2.0.0
                        2021-02-20 [1] CRAN (R 4.0.3)
systemfonts
              1.0.2
                        2021-05-11 [1] CRAN (R 4.0.3)
tibble
            * 3.1.2
                        2021-05-16 [1] CRAN (R 4.0.3)
tidyr
            * 1.1.3
                        2021-03-03 [1] CRAN (R 4.0.3)
tidyselect
              1.1.1
                        2021-04-30 [1] CRAN (R 4.0.3)
tidyverse
                        2021-04-15 [1] CRAN (R 4.0.3)
            * 1.3.1
utf8
              1.2.1
                        2021-03-12 [1] CRAN (R 4.0.3)
                        2020-02-26 [1] CRAN (R 4.0.2)
uuid
              0.1 - 4
vctrs
              0.3.8
                        2021-04-29 [1] CRAN (R 4.0.3)
              2.4.2
                        2021-04-18 [1] CRAN (R 4.0.3)
withr
                        2020-04-23 [1] CRAN (R 4.0.2)
xml2
              1.3.2
              2.2.0
                        2021-05-31 [1] CRAN (R 4.0.3)
zip
```

- [1] /home/jbenja13/R/x86_64-pc-linux-gnu-library/4.0
- [2] /usr/lib/R/library

[]: