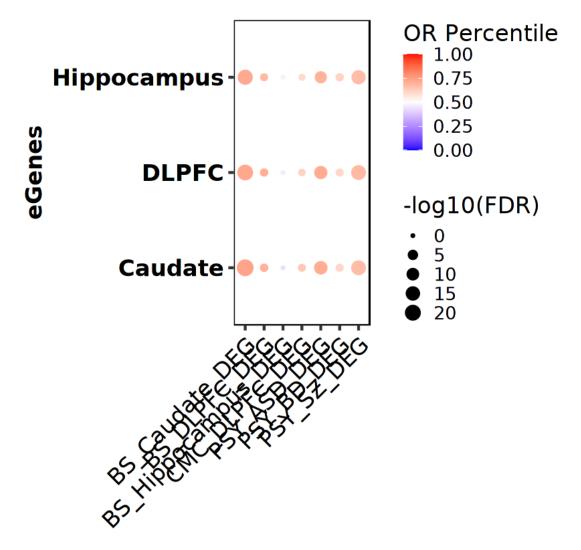
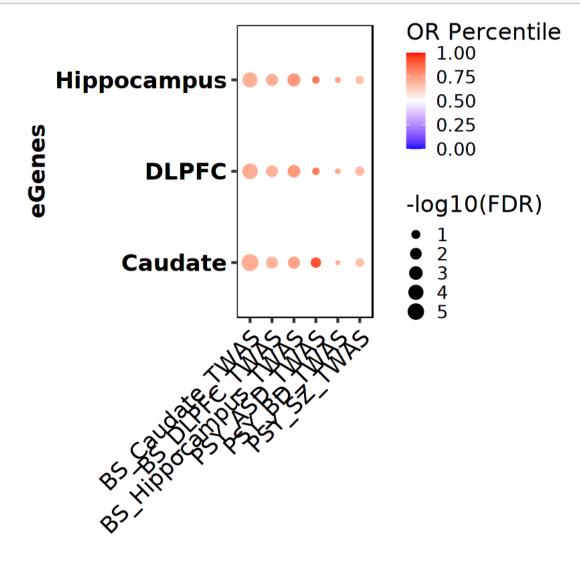
main

September 20, 2021

1 Clustered dotplots

```
[1]: library(ggplot2)
     library(tidyverse)
      Attaching packages
                                                tidyverse
    1.3.1
     tibble 3.1.4
                          dplyr
                                  1.0.7
              1.1.3
                          stringr 1.4.0
     tidyr
     readr
              2.0.1
                          forcats 0.5.1
              0.3.4
     purrr
      Conflicts
    tidyverse_conflicts()
      dplyr::filter() masks stats::filter()
      dplyr::lag()
                      masks stats::lag()
[2]: save_plot <- function(p, fn, w, h){</pre>
         for(ext in c(".pdf", ".png", ".svg")){
             ggsave(filename=paste0(fn,ext), plot=p, width=w, height=h)
         }
     }
    1.1 Get data
[3]: dt <- data.table::fread("../../_m/
     →clincial_phenotypes_enrichment_analysis_3brainRegions.tsv")
     dt %>% head(2)
                                                                          FDR.
                                Comparison
                                                   OR.
                                                             P-value
                       Tissue
                       <chr>
                                <chr>
                                                    <dbl>
                                                             <dbl>
                                                                          <dbl>
    A data.table: 2 \times 5
                       Caudate
                                BS Caudate DEG
                                                   2.756170 1.392999e-25
                                                                          5.432696e-24
                                BS\_DLPFC\_DEG
                       Caudate
                                                   2.349303 4.310847e-03
                                                                          8.848580e-03
[4]: dotplot <- dt %>% filter(str_detect(Comparison, "DEG")) %>%
         mutate(`-log10(FDR)` = -log10(FDR), `OR Percentile` = OR / (1+OR)) %>%
```





1.2 Reproducibility Information

```
[6]: Sys.time()
     proc.time()
     options(width = 120)
     sessioninfo::session_info()
    [1] "2021-09-20 10:35:51 EDT"
             system elapsed
       user
      5.088
              0.261
                       5.672
     Session info
     setting value
     version R version 4.0.3 (2020-10-10)
              Arch Linux
     os
     system
              x86_64, linux-gnu
     ui
              X11
     language (EN)
     collate
              en_US.UTF-8
     ctype
              en_US.UTF-8
              America/New_York
     tz
              2021-09-20
     date
     Packages
     package
                  * version date
                                        lib source
     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)
                             2020-12-09 [1] CRAN (R 4.0.2)
     backports
                    1.2.1
     base64enc
                    0.1-3
                             2015-07-28 [1] CRAN (R 4.0.2)
     broom
                    0.7.9
                             2021-07-27 [1] CRAN (R 4.0.3)
                    1.5-12.2 2020-07-07 [1] CRAN (R 4.0.2)
     Cairo
     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)
                    1.1.0
                             2016-07-27 [1] CRAN (R 4.0.2)
     cellranger
     cli
                    3.0.1
                             2021-07-17 [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)
                             2021-06-23 [1] CRAN (R 4.0.3)
     curl
                    4.3.2
     data.table
                    1.14.0
                             2021-02-21 [1] CRAN (R 4.0.3)
     DBI
                             2021-01-15 [1] CRAN (R 4.0.2)
                    1.1.1
     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)
                  * 1.0.7
                             2021-06-18 [1] CRAN (R 4.0.3)
     dplyr
                    0.3.2
                             2021-04-29 [1] CRAN (R 4.0.3)
     ellipsis
                    0.14
     evaluate
                             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)
               1.1.0
                        2021-01-25 [1] CRAN (R 4.0.2)
fastmap
            * 0.5.1
                        2021-01-27 [1] CRAN (R 4.0.2)
forcats
foreign
              0.8-80
                        2020-05-24 [2] CRAN (R 4.0.3)
                        2020-07-31 [1] CRAN (R 4.0.2)
              1.5.0
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)
                        2020-06-27 [1] CRAN (R 4.0.2)
ggpubr
              0.4.0
ggsignif
              0.6.2
                        2021-06-14 [1] CRAN (R 4.0.3)
              1.4.2
                        2020-08-27 [1] CRAN (R 4.0.2)
glue
                        2019-03-25 [1] CRAN (R 4.0.2)
gtable
              0.3.0
              2.4.3
                        2021-08-04 [1] CRAN (R 4.0.3)
haven
hms
               1.1.0
                        2021-05-17 [1] CRAN (R 4.0.3)
htmltools
              0.5.2
                        2021-08-25 [1] CRAN (R 4.0.3)
              1.4.2
                        2020-07-20 [1] CRAN (R 4.0.2)
httr
IRdisplay
              1.0
                        2021-01-20 [1] CRAN (R 4.0.2)
              1.2
                        2021-05-11 [1] CRAN (R 4.0.3)
IRkernel
              1.7.2
                        2020-12-09 [1] CRAN (R 4.0.2)
jsonlite
labeling
              0.4.2
                        2020-10-20 [1] CRAN (R 4.0.2)
                        2021-02-15 [1] CRAN (R 4.0.3)
lifecycle
              1.0.0
                        2021-02-26 [1] CRAN (R 4.0.3)
lubridate
              1.7.10
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)
              4.2.4
                        2021-06-16 [1] CRAN (R 4.0.3)
openxlsx
                        2021-02-10 [1] CRAN (R 4.0.3)
pbdZMQ
              0.3 - 5
pillar
              1.6.2
                        2021-07-29 [1] CRAN (R 4.0.3)
                        2019-09-22 [1] CRAN (R 4.0.2)
pkgconfig
              2.0.3
            * 0.3.4
                        2020-04-17 [1] CRAN (R 4.0.2)
purrr
R.6
              2.5.1
                        2021-08-19 [1] CRAN (R 4.0.3)
              1.0.7
                        2021-07-07 [1] CRAN (R 4.0.3)
Rcpp
readr
            * 2.0.1
                        2021-08-10 [1] CRAN (R 4.0.3)
              1.3.1
                        2019-03-13 [1] CRAN (R 4.0.2)
readxl
                        2021-01-21 [1] CRAN (R 4.0.2)
              1.1.3
repr
reprex
              2.0.1
                        2021-08-05 [1] CRAN (R 4.0.3)
rio
              0.5.27
                        2021-06-21 [1] CRAN (R 4.0.3)
              0.4.11
                        2021-04-30 [1] CRAN (R 4.0.3)
rlang
              0.7.0
                        2021-02-13 [1] CRAN (R 4.0.3)
rstatix
rstudioapi
              0.13
                        2020-11-12 [1] CRAN (R 4.0.2)
              1.0.1
                        2021-07-26 [1] CRAN (R 4.0.3)
rvest
                        2020-05-11 [1] CRAN (R 4.0.2)
scales
              1.1.1
               1.1.1
                        2018-11-05 [1] CRAN (R 4.0.2)
sessioninfo
stringi
               1.7.4
                        2021-08-25 [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
            * 3.1.4
                        2021-08-25 [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
            * 1.3.1
                      2021-04-15 [1] CRAN (R 4.0.3)
tzdb
              0.1.2
                      2021-07-20 [1] CRAN (R 4.0.3)
utf8
              1.2.2
                      2021-07-24 [1] CRAN (R 4.0.3)
              0.1-4
                      2020-02-26 [1] CRAN (R 4.0.2)
uuid
                      2021-04-29 [1] CRAN (R 4.0.3)
              0.3.8
vctrs
                      2021-04-18 [1] CRAN (R 4.0.3)
withr
              2.4.2
xm12
              1.3.2
                      2020-04-23 [1] CRAN (R 4.0.2)
                      2021-05-31 [1] CRAN (R 4.0.3)
zip
              2.2.0
```

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