Figure-S2D.R

sokole

2024-07-19

```r
# This Script Generates Figure S2D
# Script By: Eishani Kumar Sokolowski

# Empty the environment & suppress warnings
rm(list = ls())
options(warn=-1)

# Loading the required libraries
library(dplyr)
```

```
##
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:stats':
##
##     filter, lag
```

```
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```r
library(ggplot2)
library(ggrepel)
library(GeneOverlap)
library(Vennerable)
library(VennDiagram)
```

```
## Loading required package: grid
```

```
## Loading required package: futile.logger
```

```
################################################################################
# Loading the DEGs
################################################################################

# Alpha — Extract Upregulated DEGs
Alpha <- read.csv("./ERS.alpha.DEGs.csv")
Alpha <- Alpha[Alpha$avg_log2FC>0,]

# Beta  — Extract Upregulated DEGs
Beta <- read.csv("./ERS.beta.DEGs.csv")
Beta <- Beta[Beta$avg_log2FC>0,]


################################################################################
# Venn Diagram
################################################################################

Venn.Diagram <- list()
Venn.Diagram[["Alpha DEGs Induced Upon ERS"]] <- Alpha$X
Venn.Diagram[["Beta DEGs Induced  ERS"]] <- Beta$X

Vstem <- Venn(Venn.Diagram)
plot(Vstem)
```