Figure-S3B-Stacked-Barplot.R

sokole

2024-07-26

```
# This Script Generates Figure S3B
# Script By: Eishani Kumar Sokolowski

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

# Loading libraries
library(dplyr)
```

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

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

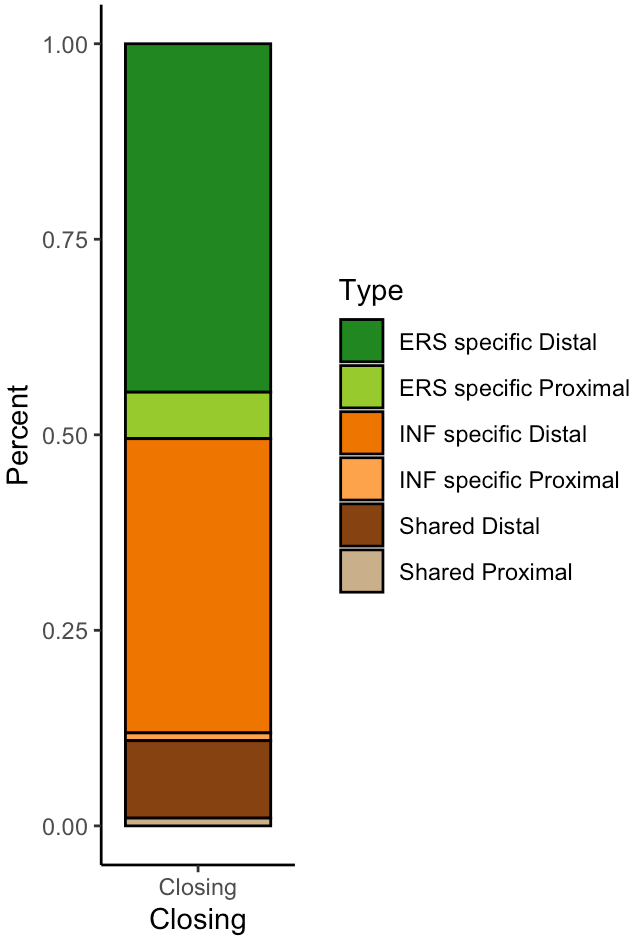
```
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```
library(ggplot2)
library(tidyverse)
```

```
## ── Attaching core tidyverse packages ──────────────────────── tidyverse 2.0.0 ──
## ✔ forcats   1.0.0     ✔ stringr   1.5.1
## ✔ lubridate 1.9.3     ✔ tibble    3.2.1
## ✔ purrr     1.0.2     ✔ tidyr     1.3.1
## ✔ readr     2.1.5
```

```
## ── Conflicts ────────────────────────────────────────── tidyverse_conflicts() ──
## ✖ dplyr::filter() masks stats::filter()
## ✖ dplyr::lag()    masks stats::lag()
## ℹ Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts
to become errors
```

```
library(grid)
library(ggpubr)

# Loading files
ERS.specific.distal.closing <- read.csv("ERS.specific_closing_distal_DAPs.csv")
ERS.specific.distal.closing$Type <- c("ERS specific Distal")
INF.specific.distal.closing <- read.csv("INF.specific_closing_distal_DAPs.csv")
INF.specific.distal.closing$Type <- c("INF specific Distal")
Shared.distal.closing <- read.csv("ERS.INF.shared_closing_distal_DAPs.csv")
Shared.distal.closing$Type <- c("Shared Distal")
ERS.specific.proximal.closing <- read.csv("ERS.specific_closing_proximal_DAPs.csv")
ERS.specific.proximal.closing$Type <- c("ERS specific Proximal")
INF.specific.proximal.closing <- read.csv("INF.specific_closing_proximal_DAPs.csv")
INF.specific.proximal.closing$Type <- c("INF specific Proximal")
Shared.proximal.closing <- read.csv("ERS.INF.shared_closing_proximal_DAPs.csv")
Shared.proximal.closing$Type <- c("Shared Proximal")

# Combing into a single dataframe
final.df <- rbind(ERS.specific.distal.closing,
                  ERS.specific.proximal.closing,
                  INF.specific.distal.closing,
                  INF.specific.proximal.closing,
                  Shared.distal.closing,
                  Shared.proximal.closing)

# Summarizing
final.df <- final.df[-c(1:5)]
summary <- as.data.frame(table(final.df))
summary$Total <- sum(summary$Freq)
summary$Percent <- round(summary$Freq/summary$Total*100)
summary$Closing <- c("Closing")

# Making the stacked barplot
p <- ggplot(summary, aes(fill=Type, y=Percent, x=Closing)) +
  geom_bar(position="fill", stat="identity",color="black")+theme_classic()+
  scale_fill_manual(values=c("forestgreen",
                             "olivedrab3",
                             "darkorange2",
                             "tan1",
                             "saddlebrown",
                             "navajowhite3"))

# View
ggarrange(p, nrow=1, ncol=2)
```


1.00
0.75
0.50
0.25
0.00
Percent
Closing
Closing
Type
ERS specific Distal
ERS specific Proximal
INF specific Distal
INF specific Proximal
Shared Distal
Shared Proximal