```
<- "raw/NeuN-Overlap"
NeuN
Nuclei <- "raw/NucleiOverlap"
Upper0 <- "raw/Upper0"</pre>
     <- "raw/GFPonlv"
GFP
## Output directory
output dir <- "analysis/NeuN/"
## List files using full file name
files neun <- list.files(NeuN, full.names = T)
files nuclei <- list.files(Nuclei, full.names = T)
files upperg <- list.files(UpperO, full.names = T)
           <- list.files(GFP, full.names = T)
files afp
## Plate analysis will use only NeuN-Overlap data
stat.ntxt <- vector()
stat.txt <- vector()
## Beginning of script
for (i in seg along(files neun)){
  file <- read.csv(files neun[i])</pre>
  colnames(file)[2] <- "Well.R"
  txt1 <- subset(file, Well.R == "2")[,3]
  txt2 <- subset(file, Well.R == "23")[,3]</pre>
  ntxt1 <- subset(file, Well.R == "1")[,3]</pre>
  ntxt2 <- subset(file, Well.R == "24")[,3]</pre>
  nam <- paste("Plate", i, " NeuN", sep="")</pre>
  data <- list(ntxt1, ntxt2, txt1, txt2)</pre>
  for (| in 1:4){
    treatment <- c("ntxt1", "ntxt2", "txt1", "txt2")</pre>
    output1 <- mean(data[[j]], na.rm = T)</pre>
    output2
             <- sd(data[[j]], na.rm = T)
             <- paste(nam, "well-comparison", treatment[j], sep=" ")</pre>
    plate
    analysis <- data.frame(Mean = output1, Std = output2)</pre>
    write.table(analysis, file = paste(output dir, plate, ".csv", sep = ""), sep = ",", append = F,
row.names = F, col.names = T)
  }
  ## Statistical analysis
  stat.ntxt <- c(stat.ntxt, t.test(ntxt1,ntxt2)$p.value)</pre>
  stat.txt <- c(stat.txt, t.test(txt1,txt2)$p.value)</pre>
}
pvalues <- data.frame(Vehicle = stat.ntxt, Topotecan = stat.txt)</pre>
write.table(pvalues, file = paste(output dir, "pvalues well-comparison NeuN analysis.csv", sep = ""), sep
= ",", append = F, row.names = F, col.names = T)
```

Input files from a directory