wholebrain dendrogram

load projection densities from supplemental table and try to plot a dendorgram. data<-read.csv(file = "~/postdoc2/DCN_tracing/m_files/anterogradetracing_round8_10/test.csv")</pre> data<-data[,1:23] library(ComplexHeatmap) ## Loading required package: grid ## ============= ## ComplexHeatmap version 2.2.0 ## Bioconductor page: http://bioconductor.org/packages/ComplexHeatmap/ ## Github page: https://github.com/jokergoo/ComplexHeatmap ## Documentation: http://jokergoo.github.io/ComplexHeatmap-reference ## If you use it in published research, please cite: ## Gu, Z. Complex heatmaps reveal patterns and correlations in multidimensional ## genomic data. Bioinformatics 2016. ## =============== library(dendsort) library(dendextend) ## ## -----## Welcome to dendextend version 1.13.4 ## Type citation('dendextend') for how to cite the package. ## Type browseVignettes(package = 'dendextend') for the package vignette. ## The github page is: https://github.com/talgalili/dendextend/ ## Suggestions and bug-reports can be submitted at: https://github.com/talgalili/dendextend/issues ## Or contact: <tal.galili@gmail.com> ## ## To suppress this message use: suppressPackageStartupMessages(library(dendextend)) ## ## Attaching package: 'dendextend' ## The following object is masked from 'package:stats': ## cutree library(circlize) ## ============ ## circlize version 0.4.8 ## CRAN page: https://cran.r-project.org/package=circlize

```
## Github page: https://github.com/jokergoo/circlize
## Documentation: http://jokergoo.github.io/circlize_book/book/
## If you use it in published research, please cite:
## Gu, Z. circlize implements and enhances circular visualization
## in R. Bioinformatics 2014.
library(pvclust)
## Registered S3 method overwritten by 'pvclust':
    method
                 from
    text.pvclust dendextend
result <- pvclust(as.matrix(data), nboot=10000,method.hclust = "complete",method.dist = function(z){as.
## Bootstrap (r = 0.5)... Done.
## Bootstrap (r = 0.6)... Done.
## Bootstrap (r = 0.7)... Done.
## Bootstrap (r = 0.8)... Done.
## Bootstrap (r = 0.9)... Done.
## Bootstrap (r = 1.0)... Done.
## Bootstrap (r = 1.1)... Done.
## Bootstrap (r = 1.2)... Done.
## Bootstrap (r = 1.3)... Done.
## Bootstrap (r = 1.4)... Done.
pal=c('#00A651','#EC008C','#0072BD','#00AEEF')
sites=as.factor(c(rep("Meda",5),rep("Medp",5),rep("Int",6),rep("Lat",7)))
levels(sites) < -c(1,2,3,4)
bars=data.frame(animal=pal[(sites)]);
dend <- (as.dendrogram(result))</pre>
dend %>% pvclust_show_signif_gradient(result, signif_type = 'au',
                                     signif_col_fun = colorRampPalette(c('white', 'black'))) %>%
 set("nodes_pch", 19) %>%
 set("branches_lwd", 2) %>%
colored_bars(colors = bars, dend = dend, sort_by_labels_order = TRUE, y_shift=0.02)
```

result %>% text

