library(gplots)

df <- data.frame(A = c(0.645, 0.894, 0.956,1),

B=c(0.53, 0.901, 1, 0.956),

C= c(0.585,1,0.901,0.894),

D=c(1,0.585,0.53,0.645))

colnames(df) <- c("H2AXCD4+", "γH2AX,Jurkat", "γH2AX,Cd4+,IR", "DSB")

rownames(df) <- c("DSB", "γH2AX,Cd4+,IR", "γH2AX,Jurka", "H2AXCD4+")

df\_matrix <- as.matrix(df)

mat\_data<- data.matrix(df[,1:ncol(df)])

#pdf("Heatmap.pdf")

heatmap.2(df\_matrix,

cellnote = mat\_data, # same data set for cell labels

col=bluered(75),

main = "COSMOS project", # heat map title

notecol="black", # change font color of cell labels to black

density.info="none", # turns off density plot inside color legend

trace="none", # turns off trace lines inside the heat map

margins =c(12,9),

cexCol = 1.,

cexRow = 1.) # widens margins around plot

#dev.off()