PosteriorStatistics

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September 20, 2015

target.summary = "MG94\_nonclock\_summary"  
path.MG94 = "/Users/xji3/Genconv/NewClusterPackRun/NewPackageNewRun/"  
summary\_file <- paste(path.MG94, target.summary, '.txt', sep = '')  
all <- readLines(summary\_file, n = -1)  
col.names <- strsplit(all[1], ' ')[[1]][-1]  
row.names <- strsplit(all[length(all)], ' ')[[1]][-1]  
summary\_mat <- as.matrix(read.table(summary\_file,  
 row.names = row.names,  
 col.names = col.names))  
assign("new.MG94\_nonclock\_summary", summary\_mat)  
report.mat = rbind(new.MG94\_nonclock\_summary[1,],  
 colSums(new.MG94\_nonclock\_summary[34:45, ]),  
 colSums(new.MG94\_nonclock\_summary[46:57, ]),   
 colSums(new.MG94\_nonclock\_summary[58:69, ]))  
rownames(report.mat) <- c("length", "IGC 1->2", "IGC 2->1", "Point Mutation")  
report.mat

## YLR406C\_YDL075W YER131W\_YGL189C YML026C\_YDR450W  
## length 112.00 118.00 140.00  
## IGC 1->2 14.52 16.88 41.82  
## IGC 2->1 22.29 24.60 40.83  
## Point Mutation 172.04 177.59 193.22  
## YNL301C\_YOL120C YNL069C\_YIL133C YMR143W\_YDL083C  
## length 185.00 197.00 134.00  
## IGC 1->2 40.83 44.49 33.94  
## IGC 2->1 64.58 45.17 35.13  
## Point Mutation 332.46 352.14 177.15  
## YJL177W\_YKL180W YBR191W\_YPL079W YER074W\_YIL069C  
## length 183.00 159.00 133.00  
## IGC 1->2 28.75 37.79 48.82  
## IGC 2->1 31.17 38.72 40.57  
## Point Mutation 263.17 184.78 181.23  
## YDR418W\_YEL054C YBL087C\_YER117W YLR333C\_YGR027C  
## length 163.00 136.00 107.00  
## IGC 1->2 33.93 33.61 39.27  
## IGC 2->1 31.56 40.17 41.98  
## Point Mutation 277.96 209.63 237.79  
## YMR142C\_YDL082W YER102W\_YBL072C  
## length 197.00 198.00  
## IGC 1->2 80.52 65.69  
## IGC 2->1 67.92 73.47  
## Point Mutation 271.35 286.49

# show %IGC in all transitions  
colSums(report.mat[2:3,]) / colSums(report.mat[2:4,])

## YLR406C\_YDL075W YER131W\_YGL189C YML026C\_YDR450W YNL301C\_YOL120C   
## 0.1763 0.1893 0.2996 0.2407   
## YNL069C\_YIL133C YMR143W\_YDL083C YJL177W\_YKL180W YBR191W\_YPL079W   
## 0.2029 0.2805 0.1855 0.2928   
## YER074W\_YIL069C YDR418W\_YEL054C YBL087C\_YER117W YLR333C\_YGR027C   
## 0.3303 0.1907 0.2603 0.2547   
## YMR142C\_YDL082W YER102W\_YBL072C   
## 0.3536 0.3269