Burden

Partition enhancers based on distance to TSS based on strict overlap. Basically, her pipeline takes intersections between enhancers and distance ranges, and remove bases of enhancers that are not overlapped. ### NOTICE

```
getwd()
## [1] "/media/yuwen/F/ASD/analysis"
knitr::opts_chunk$set(warning=FALSE, message=FALSE)
read in data with predicted mutation count and observed mutation count
load in functions and datastes that make the functions work
Set the scaling factor for nonysn to 0.32 for now (which is actually used for Polyphen-2 Mis3 rate)
ASD manuscript data, stringent ASD genes
predicted
## [1] 3.26384
observed
## [1] 9
ppois(observed-1, predicted,lower.tail = FALSE)
## [1] 0.006458456
ASD manuscript data, relaxed ASD genes
predicted
## [1] 20.93894
observed
## [1] 64
```

```
ppois(observed-1, predicted,lower.tail = FALSE)
## [1] 3.246687e-14
control\_model\_693\_mutrate\ data,\ stringent\ ASD\ genes
predicted
## [1] 5.474641
{\tt observed}
## [1] 11
ppois(observed-1, predicted,lower.tail = FALSE)
## [1] 0.02453533
control\_model\_693\_mutrate, relaxed ASD genes
predicted
## [1] 35.07132
observed
## [1] 88
ppois(observed-1, predicted,lower.tail = FALSE)
## [1] 4.696851e-14
```