

# Burden

Use a newly calculated set of motif change scores to define motif SNVs, but only focusing on motifs that more relevant Here motifs are defined as relevant if they are 1) in top 50% brain expressed genes, and 2) are enriched in at least one gain-enriched brain module Partition enhancers based on distance to TSS based on Yanyu's pipeline. Basically, her pipeline takes intersections between enhancers and distance ranges, and remove bases of enhancers that are not overlap.

non ASD genes are the bottom 20%

```
getwd()
```

```
## [1] "/media/yuwen/F/ASD/analysis"
```

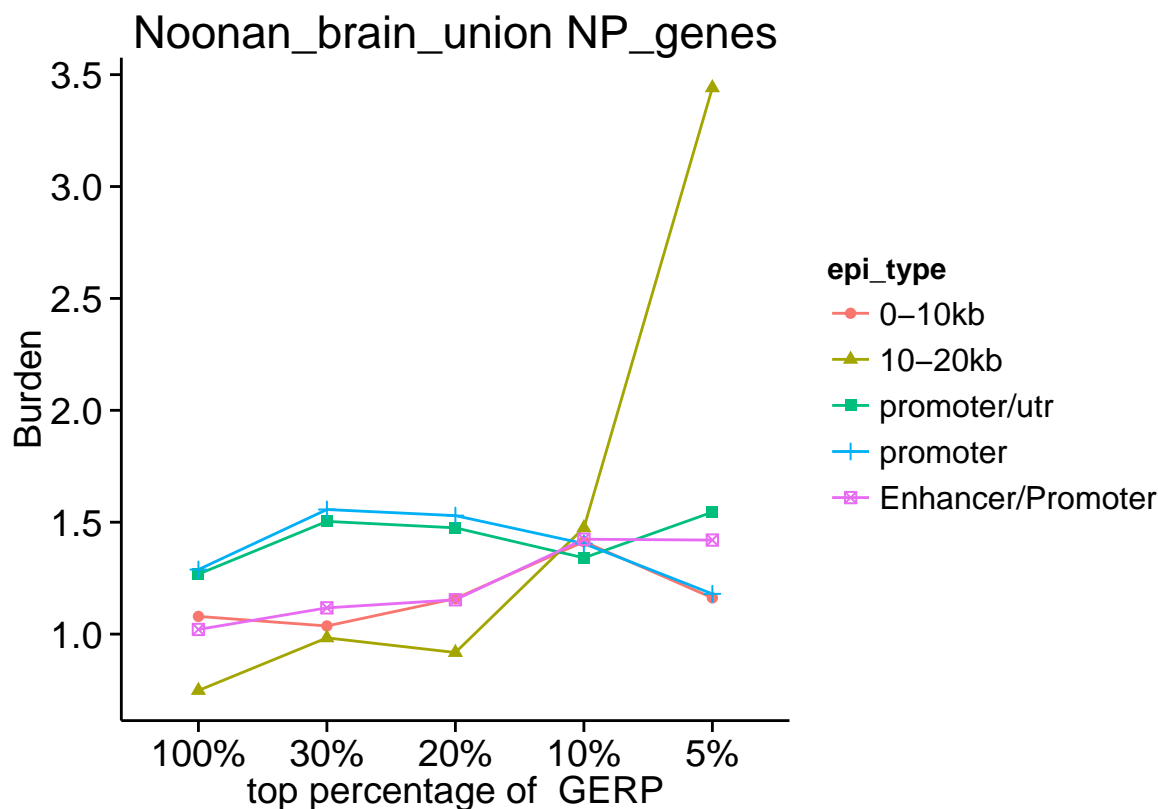
```
knitr::opts_chunk$set(warning=FALSE, message=FALSE)
```

read in coding tada data

```
## [1] "/media/yuwen/F/ASD/analysis"
```

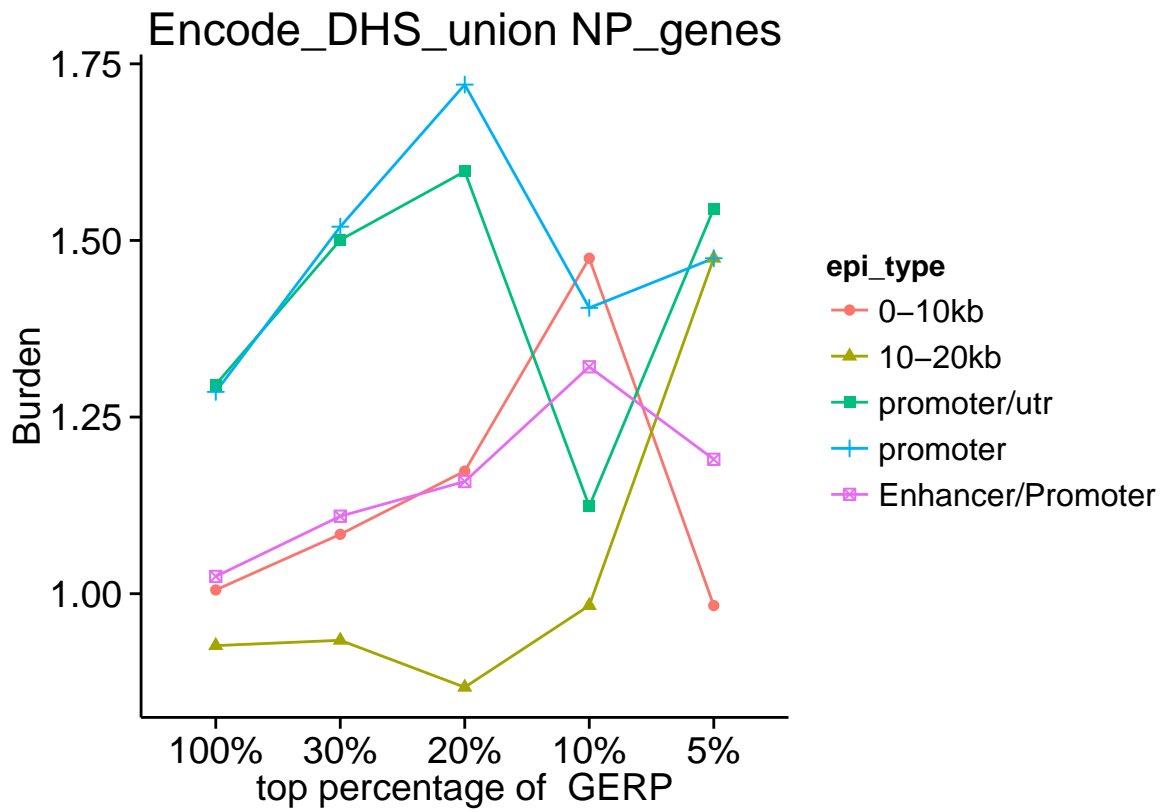
Noonan enhancers + GERP + NP\_genes

```
#knitr::kable(burden_trend_for_each_epi_data("0703_data_for_analysis.bed", "../other_annotation/epigenomic_annotation",
burden_trend_for_each_epi_data("0703_data_for_analysis.bed", "../other_annotation/epigenomic_annotation",
```



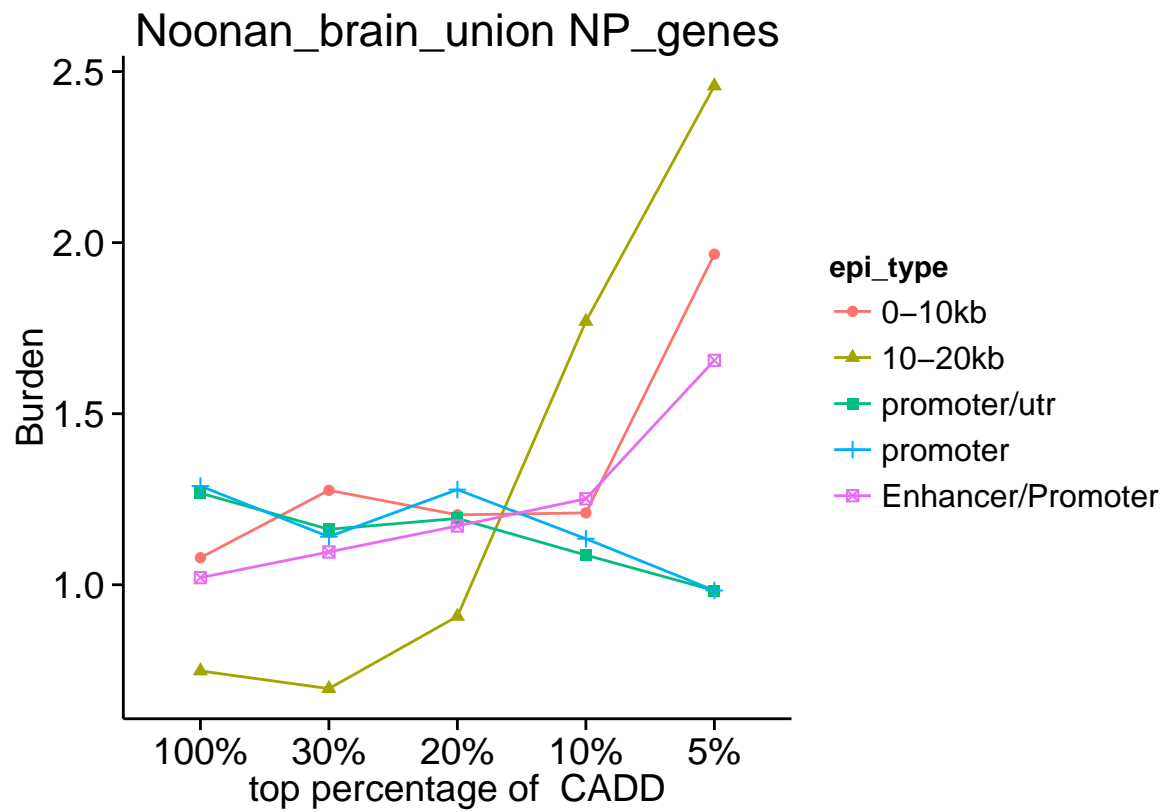
Encode DHS + GERP + NP\_genes

```
#knitr::kable(burden_trend_for_each_epi_data("0703_data_for_analysis.bed", "../other_annotation/epigenomic_annotation",
burden_trend_for_each_epi_data("0703_data_for_analysis.bed", "../other_annotation/epigenomic_annotation",
```



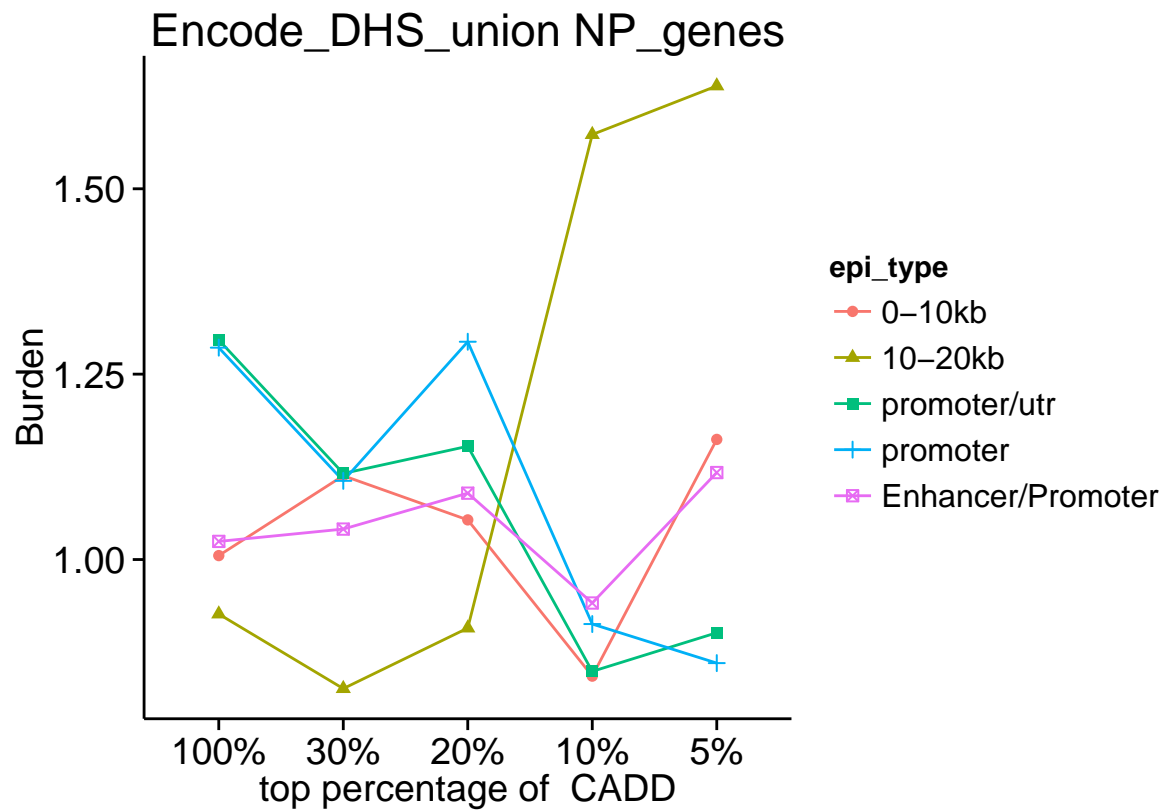
Noonan enhancers + CADD + NP\_genes

```
#knitr::kable(burden_trend_for_each_epi_data("0703_data_for_analysis.bed", "../other_annotation/epigenomic_annotation",
burden_trend_for_each_epi_data("0703_data_for_analysis.bed", "../other_annotation/epigenomic_annotation,
```



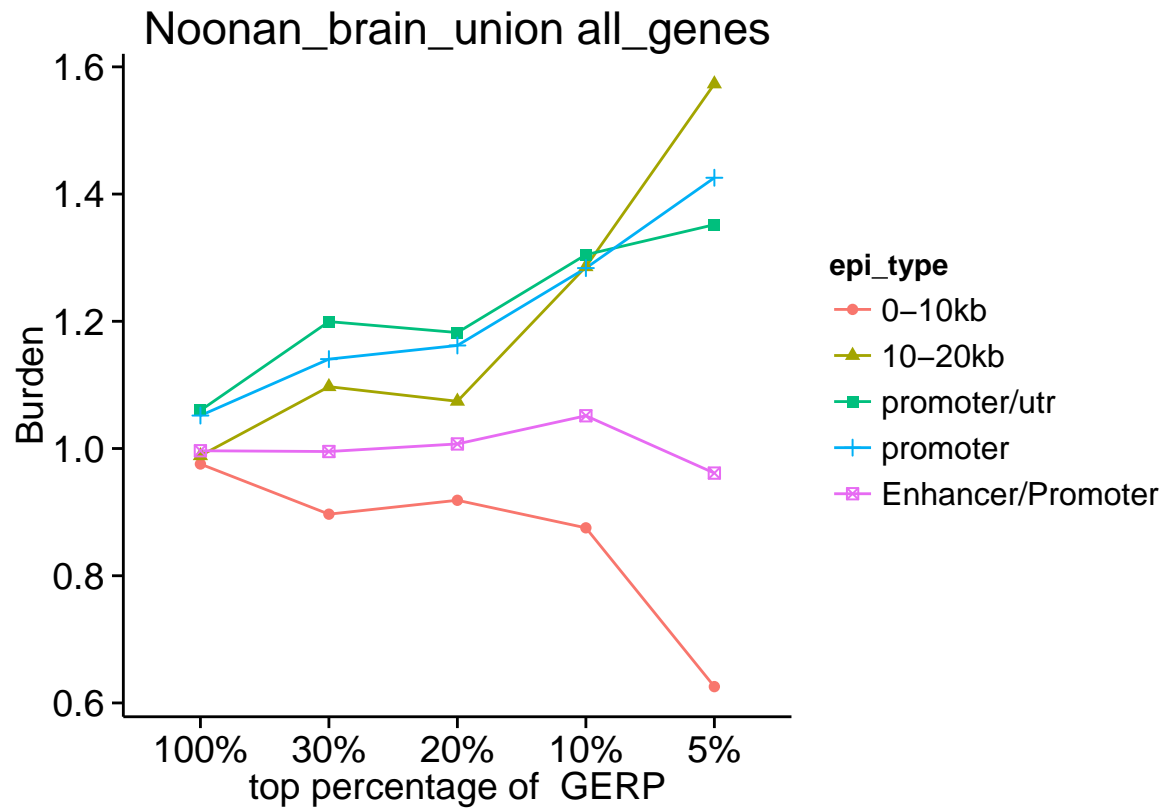
Encode DHS + CADD + NP\_genes

```
#knitr::kable(burden_trend_for_each_epi_data("0703_data_for_analysis.bed", "../other_annotation/epigenomic_annotation/encode_dhs_cadd_np_genes/0703_data_for_analysis.bed",
burden_trend_for_each_epi_data("0703_data_for_analysis.bed", "../other_annotation/epigenomic_annotation/encode_dhs_cadd_np_genes/0703_data_for_analysis.bed",
```



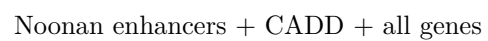
Noonan enhancers + GERP + all genes

```
#knitr::kable(burden_trend_for_each_epi_data("0703_data_for_analysis.bed", "../other_annotation/epigenomic_annotation/gerp_scores/gerp_scores.bed"),
              burden_trend_for_each_epi_data("0703_data_for_analysis.bed", "../other_annotation/epigenomic_annotation/gerp_scores/gerp_scores.bed"))
```

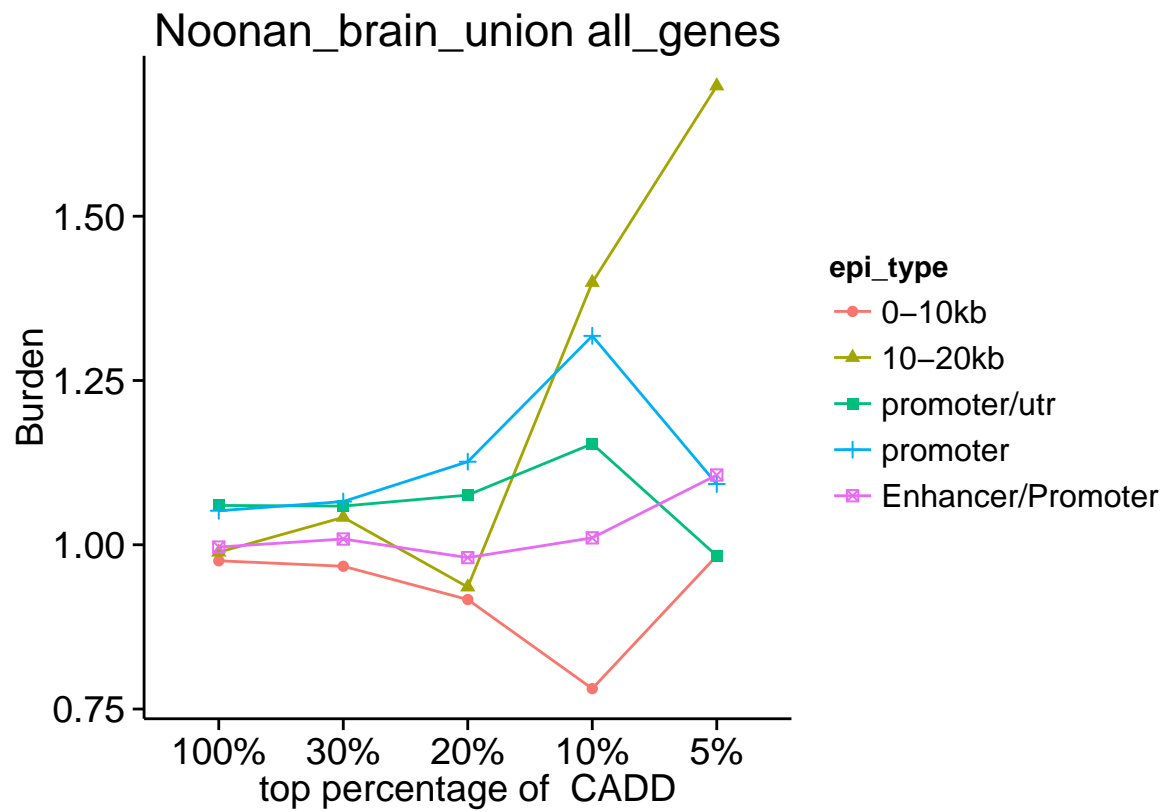


Encode DHS + GERP + all genes

```
#knitr::kable(burden_trend_for_each_epi_data("0703_data_for_analysis.bed", "../other_annotation/epigenomic_annotation/encode_dhs_gerp_all_genes.bed"), "html")
burden_trend_for_each_epi_data("0703_data_for_analysis.bed", "../other_annotation/epigenomic_annotation/encode_dhs_gerp_all_genes.bed", "html")
```



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Encode DHS + CADD + all genes

```
#knitr::kable(burden_trend_for_each_epi_data("0703_data_for_analysis.bed", "../other_annotation/epigenomic_annotation/encode_dhs_cadd_all_genes.bed", "0703_data_for_analysis.bed", "../other_annotation/epigenomic_annotation/encode_dhs_cadd_all_genes.bed"))
```

