### main

July 15, 2021

# 1 Summary analysis of interaction in Caudate Nucleus

```
[1]: import pandas as pd
```

## 1.1 Summary plots

#### 1.1.1 Genes

[2]: Empty DataFrame
 Columns: [Feature, Symbol, ensemblID, logFC, adj.P.Val, Type]
 Index: []

## 1.1.2 Transcripts

<ipython-input-1-f484fa60b54f>:5: FutureWarning: The default value of regex will
change from True to False in a future version.
 trans['ensemblID'] = trans.gene\_id.str.replace('\\.\d+', '')

[3]: Empty DataFrame
Columns: [Feature, Symbol, ensemblID, logFC, adj.P.Val, Type]

Index: []

# 1.1.3 Exons

[4]: Empty DataFrame
 Columns: [Feature, Symbol, ensemblID, logFC, adj.P.Val, Type]
 Index: []

### 1.1.4 Junctions

```
[5]:
                                               Feature Symbol ensemblID
                                                                             logFC \
    chr21:8402231-8402287(+) chr21:8402231-8402287(+)
                                                          NaN
                                                                    NaN -5.005042
    chr21:8402231-8402287(-) chr21:8402231-8402287(-)
                                                          NaN
                                                                    NaN -6.033730
                              adj.P.Val
                                              Type
    chr21:8402231-8402287(+)
                               0.006971
                                         junction
    chr21:8402231-8402287(-)
                               0.008381 junction
```

Junction (chr21:8402231-8402287) within RNA45SN3, there is lots of splicing recorded in sorted BAM.