main

August 5, 2021

1 Summary analysis of interaction in the hippocampus

```
[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-1-8f63412c9da4>: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 \
     chr18:31592940-31592993(+)
                                   chr18:31592940-31592993(+)
                                                                 NaN
     chrX:140784309-140784456(+)
                                  chrX:140784309-140784456(+)
                                                                 NaN
     chr21:8219273-8402302(-)
                                     chr21:8219273-8402302(-)
                                                                 NaN
     chr6:31816438-31828631(+)
                                    chr6:31816438-31828631(+)
                                                                 NaN
                                                                MRC1
     chr10:17881182-17885268(+)
                                   chr10:17881182-17885268(+)
                                        ensemblID
                                                      logFC adj.P.Val
                                                                            Type
     chr18:31592940-31592993(+)
                                              NaN 3.982802
                                                              0.005746
                                                                        junction
     chrX:140784309-140784456(+)
                                              NaN 3.240533
                                                              0.034982
                                                                        junction
     chr21:8219273-8402302(-)
                                              NaN -3.091047
                                                                        junction
                                                              0.034982
     chr6:31816438-31828631(+)
                                              NaN -3.978074
                                                              0.034982
                                                                         junction
     chr10:17881182-17885268(+)
                                  ENSG00000260314 -1.087409
                                                                        junction
                                                              0.034982
```

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