Status

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https://github.com/raynamharris/DissociationTest

20 April 2018

First Slide

- experimental dataset
- methods
- figures
- tables
- links

NCBI GEO

https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE99765
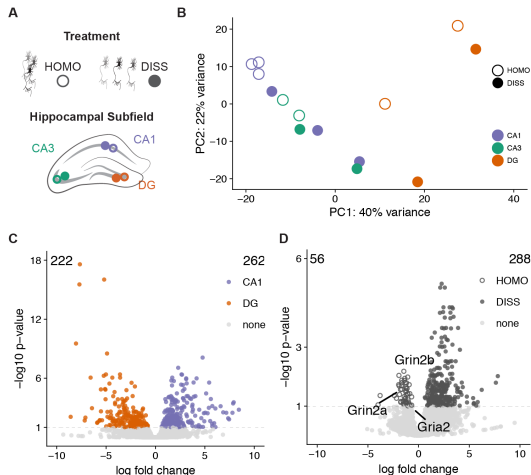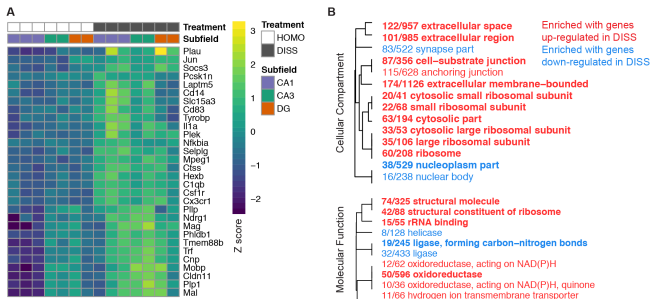
Kallisto + MultiQC
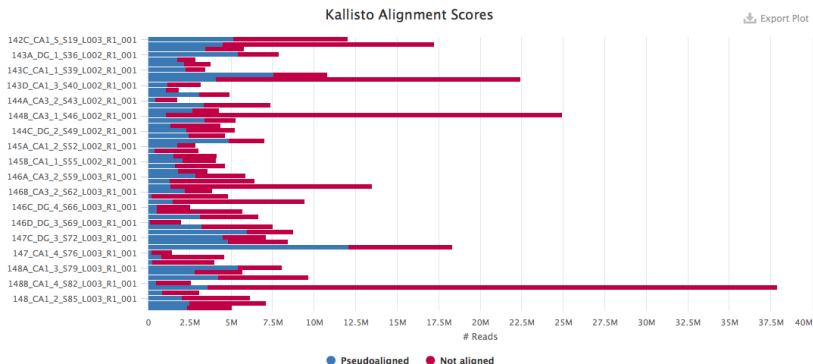
1. https://github.com/raynamharris/IntegrativeProjectWT2015/blob/master/UNIXworkflow/04_kallisto.md

Cellular dissociation has minors effect on hippocampal gene expression

github.com/raynamharris/DissociationTest:
scripts/01_DissociationTest.Rmd & 02_volcanoplots.Rmd

Top 20ish differentially expressed genes

- https://github.com/raynamharris/DissociationTest/blob/master/scripts/04_heatmaps.Rmd
- https://github.com/raynamharris/DissociationTest/tree/master/scripts/05_GO_MWU/05_GO_MWU.Rmd

Searchable supplementary files - DEGs

```
suptable <- read.csv("../results/SuppTable1.csv")
tail(suptable, 10)
```

```
##          gene   lfc   padj upregulated.in
## 335      Rpsa  1.10 0.0959           DISS
## 336   Slc25a10  2.90 0.0959           DISS
## 337     Spry1  2.20 0.0959           DISS
## 338    Tango2  1.80 0.0959           DISS
## 339    Ubqln1 -1.10 0.0974           HOMO
## 340   Gadd45b  1.50 0.0984           DISS
## 341     Gsk3b -0.90 0.0984           HOMO
## 342      Atrx -1.10 0.0992           HOMO
## 343     Itpr3  3.10 0.0992           DISS
## 344     Gria2 -0.84 0.0997           HOMO
```

Searchable supplementary files - GOs

```
GOtable <- read.csv("../results/GOsignificantcatagories.csv
head(GOtable, 5)
```

```
##    GO                               GOterm enriched   ratio
## 1 CC  cytosolic large ribosomal subunit     DISS    33/53
## 2 CC                            ribosome     DISS   60/208
## 3 CC                 extracellular region    DISS  101/985
## 4 CC                  extracellular space    DISS  122/957
## 5 CC                       nucleoplasm part HOMO   38/529
```

Repeated workflows from different time and space

1. https://github.com/raynamharris/IntegrativeProjectWT2015/
2. https://github.com/raynamharris/DissociationTest/
3. https://github.com/raynamharris/FMR1CA1rnaseq/