

A Slide Show

Rayna M. Harris

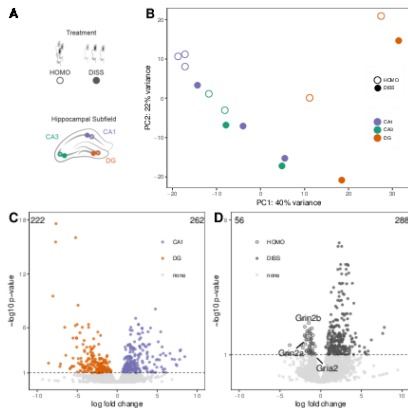
<https://github.com/raynamharris/DissociationTest>

20 April 2018

First Slide

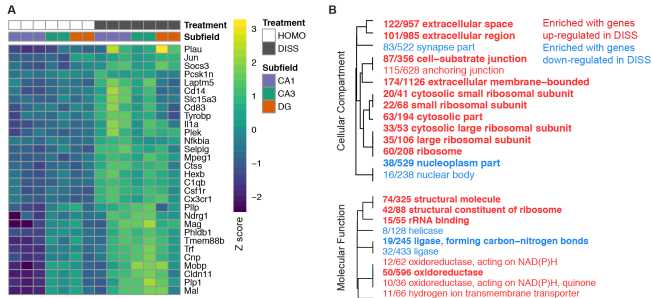
- ▶ figures from ongoing research
- ▶ past ideas
- ▶ past projects
- ▶ more ideas

Cellular dissociation has minors effect on hippocampal gene expression



- ▶ https://github.com/raynamharris/DissociationTest/blob/master/scripts/01_DissociationTest.Rmd
- ▶ https://github.com/raynamharris/DissociationTest/blob/master/scripts/02_volcanoplots.Rmd

Top 20ish differentially expressed genes



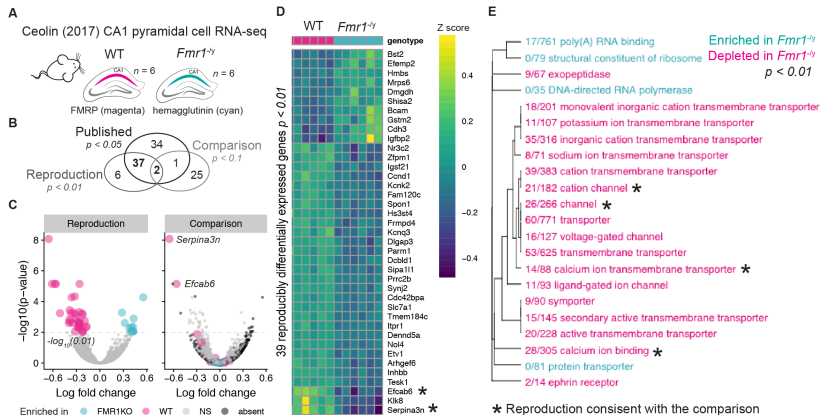
- ▶ https://github.com/raynamharris/DissociationTest/blob/master/scripts/04_heatmaps.Rmd
- ▶ https://github.com/raynamharris/DissociationTest/tree/master/scripts/05_GO_MWU/05_GO_MWU.Rmd

Searchable supplementary file

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

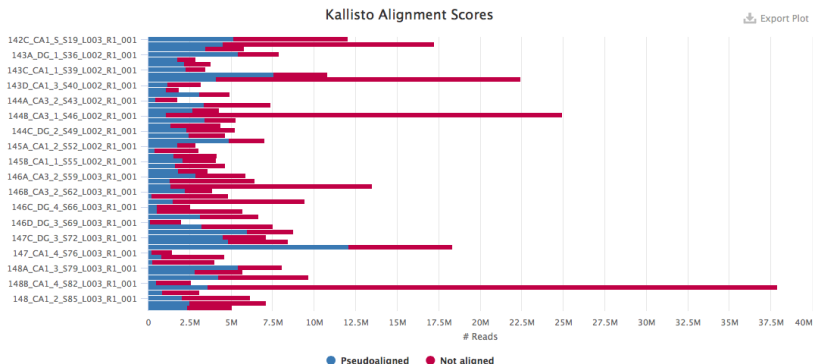
##	gene	lfc	padj	upregulated.in
## 335	Rpsa	1.10	0.0959	DISS
## 336	Slc25a10	2.90	0.0959	DISS
## 337	Spry1	2.20	0.0959	DISS
## 338	Tango2	1.80	0.0959	DISS
## 339	Ubqln1	-1.10	0.0974	HOMO
## 340	Gadd45b	1.50	0.0984	DISS
## 341	Gsk3b	-0.90	0.0984	HOMO
## 342	Atrx	-1.10	0.0992	HOMO
## 343	Itpr3	3.10	0.0992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

Reproducing and comparing published studies



https://github.com/raynamharris/FMR1CA1rnaseq/blob/master/scripts/05_Ceolin.md

Kallisto + MultiQC

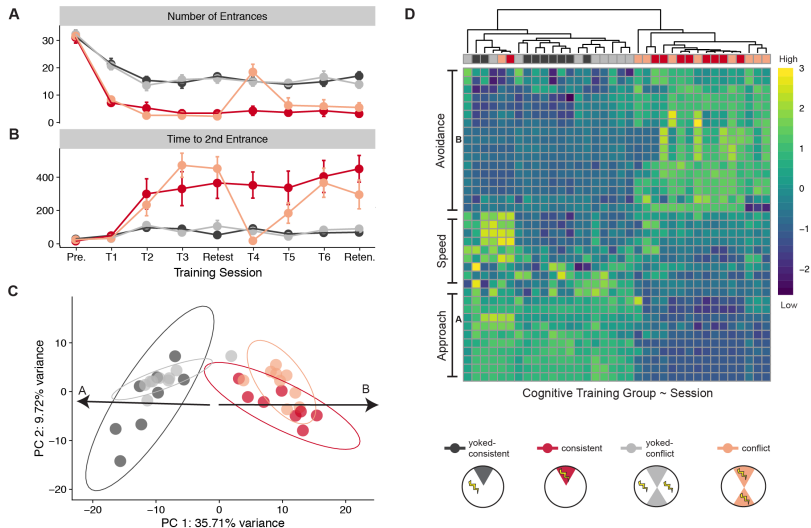


1. https://github.com/raynamharris/IntegrativeProjectWT2015/blob/master/UNIXworkflow/04_kallisto.md

Repeated workflows from different time and space

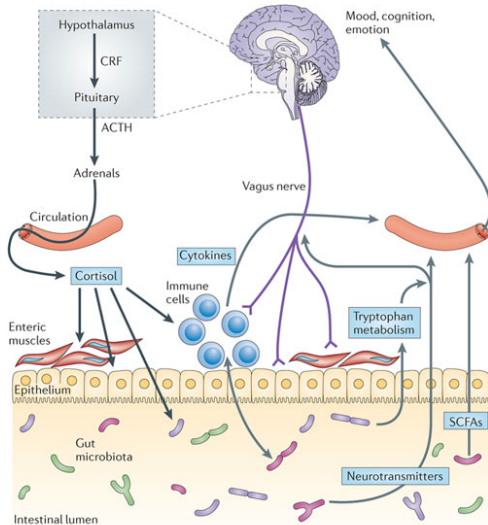
1. <https://github.com/raynamharris/IntegrativeProjectWT2015/>
2. <https://github.com/raynamharris/DissociationTest/>
3. <https://github.com/raynamharris/FMR1CA1rnaseq/>

Neuroscientists versus data scientists



<https://github.com/raynamharris/IntegrativeProjectWT2015>

Gut brain interactions



Hackathons

Working away at Latin American @swcarpentry + @datacarpentry
lesson translation doathon #opencon #opencon2017
<https://twitter.com/cloudaus/status/930046313940516867>

Las invitamos este sábado 13 a 20h a @rlyehlab a traducir lo poco
que queda a @swcarpentry para estar completo en español!
<https://twitter.com/rlyehlab/status/966814087337431040>