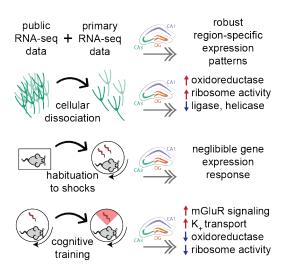
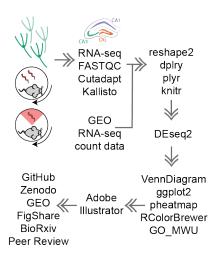
Differentiating technical and biological variation in hippocampal gene expression

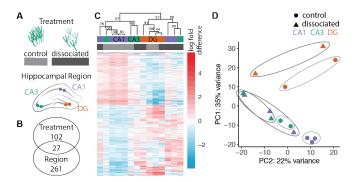
Rayna M Harris raynamharris@github.io | Hsin-Yi Kao | Juan Marcos Alarcon | Hans A Hofmann | Andre A Fenton

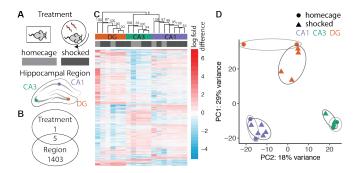
Graphical Abstract

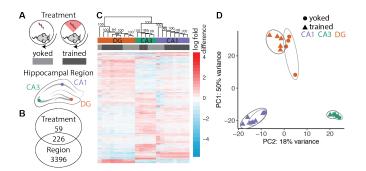


Materials & Methods

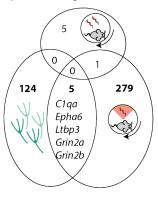








A. Treatment-incuced gene expression changes



B. Dissociation-induced molecular functions 9/244 ligase, forming carbon-nitrogen bonds 16/428 ligase

95/1066 receptor binding

60/318 structural molecule 40/87 structural constituent of ribosome

14/55 rRNA bindina

4/126 helicase

12/62 oxidoreductase, acting on NAD(P)H

43/589 oxidoreductase

C. Cognitive training -induced molecular functions

122/801 poly(A) RNA binding

14/87 structural constituent of ribosome

6/36 oxidoreductase, acting on NAD(P)H, quinone 9/25 alutamate receptor 94/790 signal transducer

77/666 receptor

29/121 potassium ion transmembrane transporter

125/880 transporter

109/727 transmembrane transporter

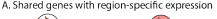


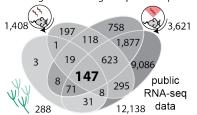






Down





B. Robust region-specific molecular functions

2/7 calcium:cation antiporter 6/99 calcium ion transmembrane transporter 6/125 divalent inorganic cation transmembrane transp 2/5 calcium, potassium:sodium antiporter 6/120 potassium ion transmembrane transporter 14/361 calcium ion binding 6/112 ligand-gated channel 10/311 passive transmembrane transporter CA1 4/26 calcium channel regulator 3/24 proteoglycan binding

DG

5/74 Rho GTPase binding