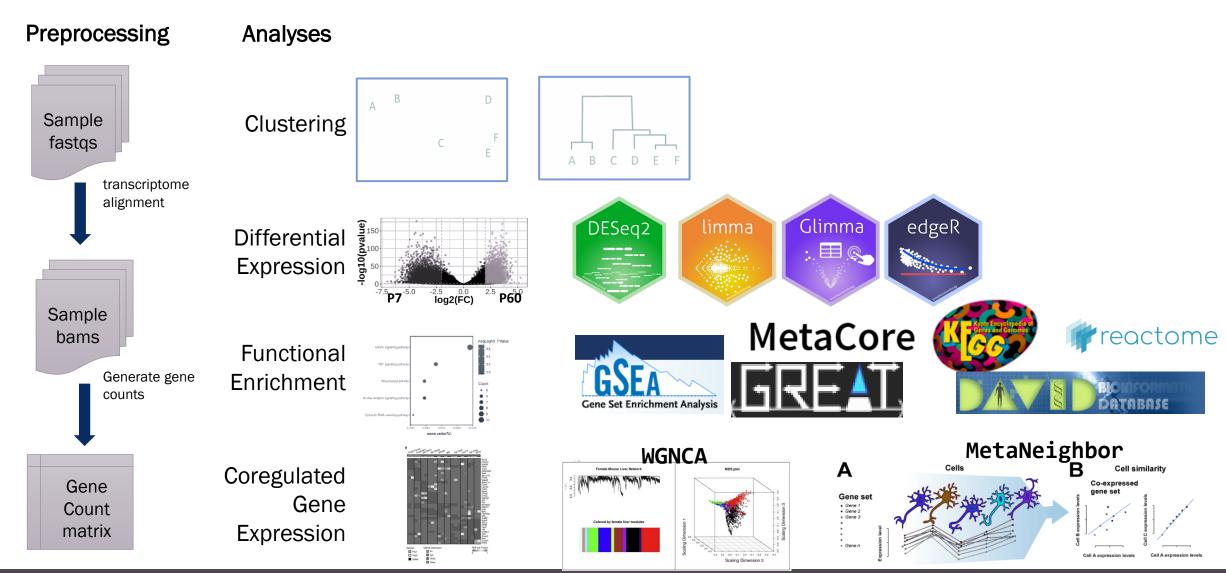
Transcriptomics Practical Setup

HackBio

Melyssa Minto
West Lab, Duke Neurobiology
Computational Biology and Bioinformatics

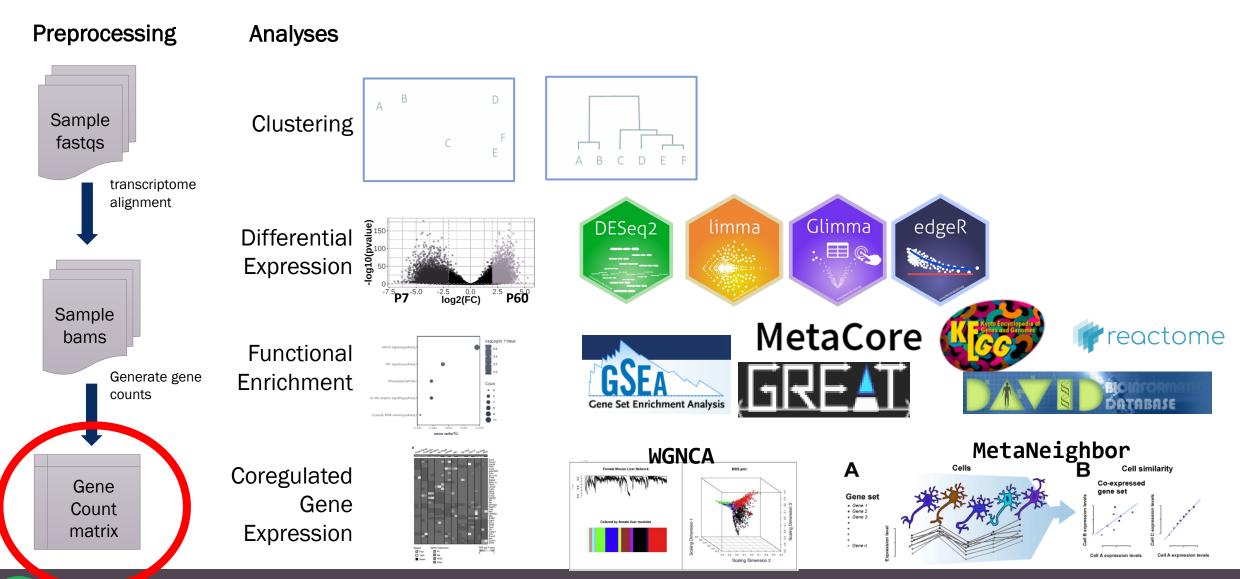


Transcriptomics pipeline/workflow





Transcriptomics pipeline/workflow







ARTICLE

https://doi.org/10.1038/s41467-019-09960-x

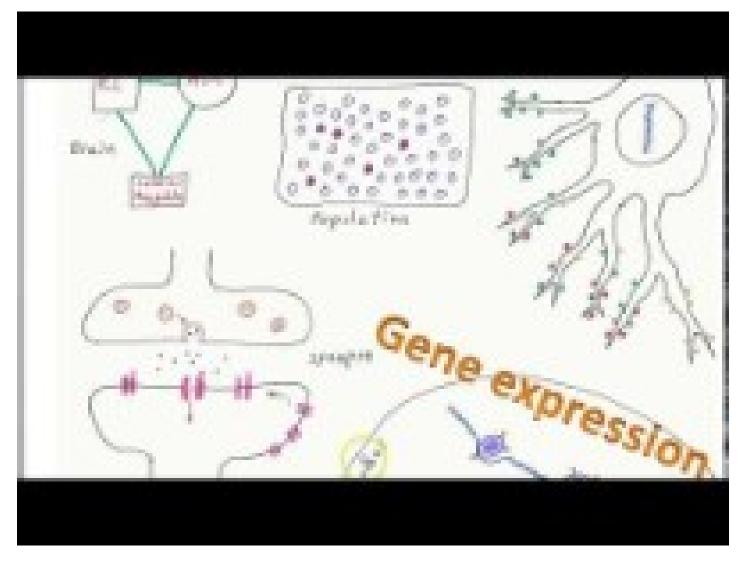
OPEN

Engram-specific transcriptome profiling of contextual memory consolidation

Priyanka Rao-Ruiz ^{1,2}, Jonathan J. Couey¹, Ivo M. Marcelo^{1,3}, Christian G. Bouwkamp¹, Denise E. Slump¹, Mariana R. Matos², Rolinka J. van der Loo², Gabriela J. Martins^{3,4}, Mirjam van den Hout ⁵, Wilfred F. van IJcken ⁵, Rui M. Costa^{3,4}, Michel C. van den Oever ² & Steven A. Kushner ¹



What is an engram??







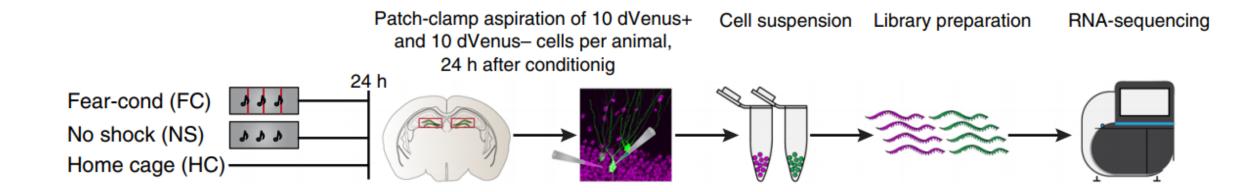
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Engram-specific transcriptome profiling of contextual memory consolidation

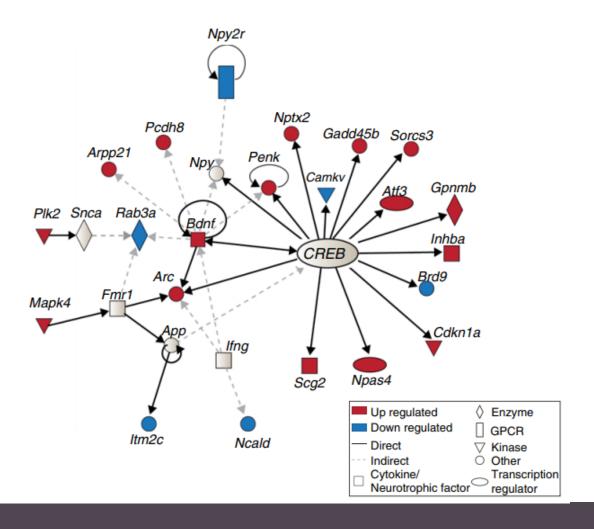
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Experimental design to isolate engram cells that participate in fear learning



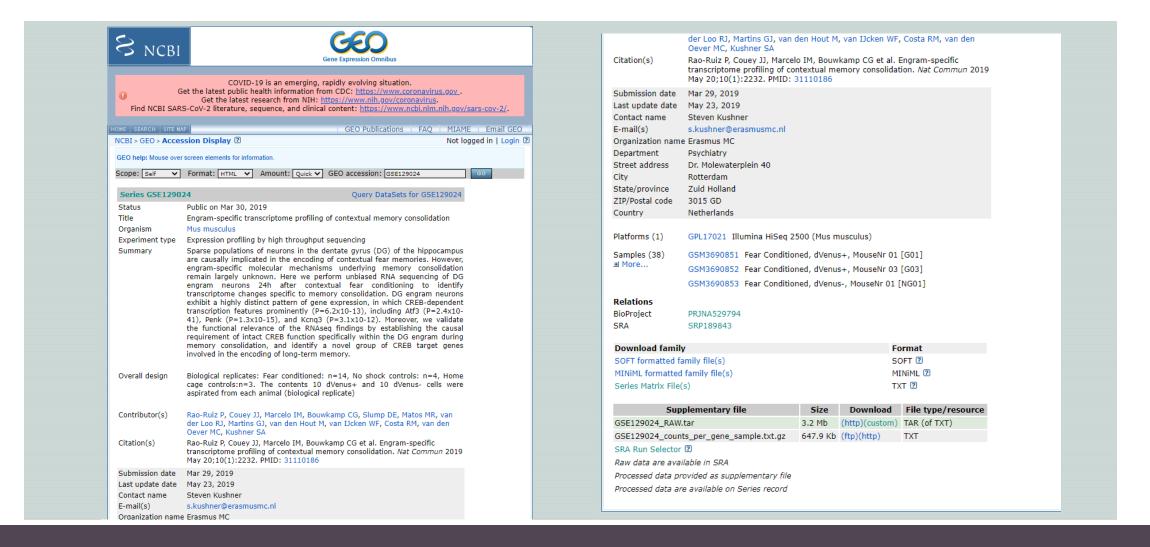


Novel target genes for CREB found that modulates fear memory learning



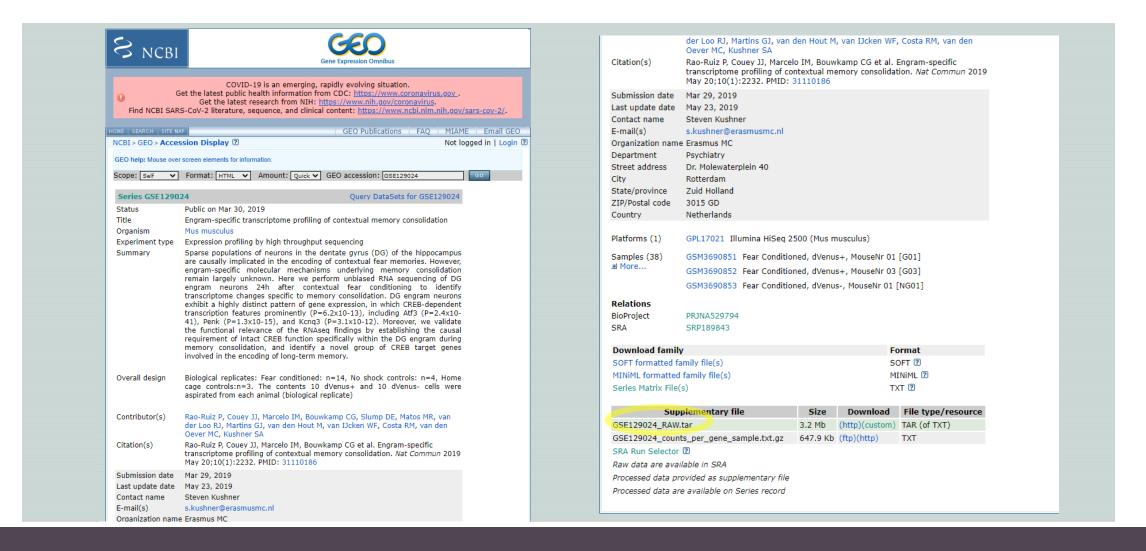


Accessing the data through NCBI GEO



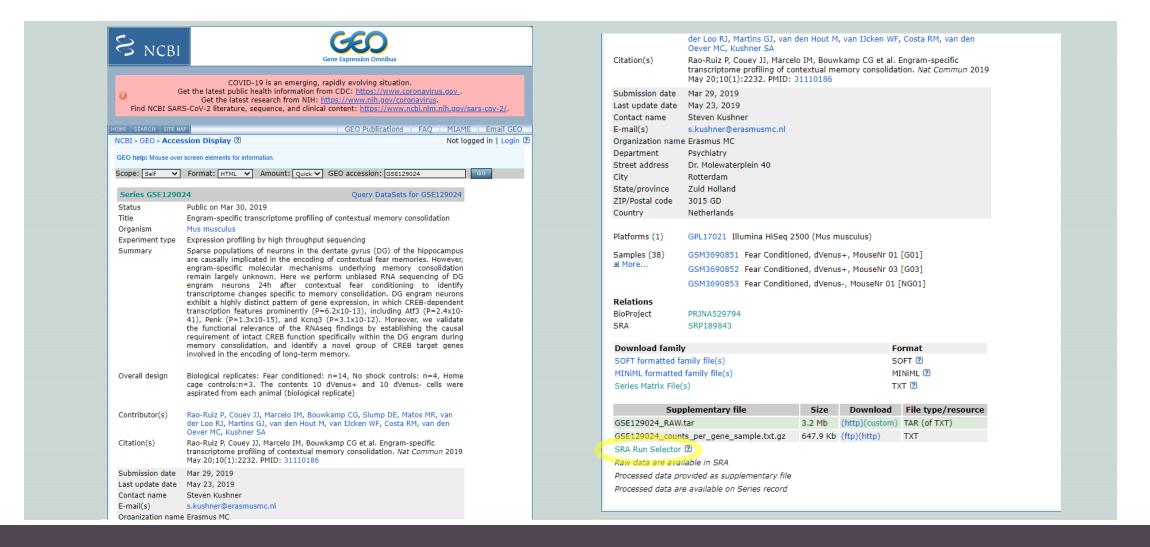


Accessing the data through NCBI GEO



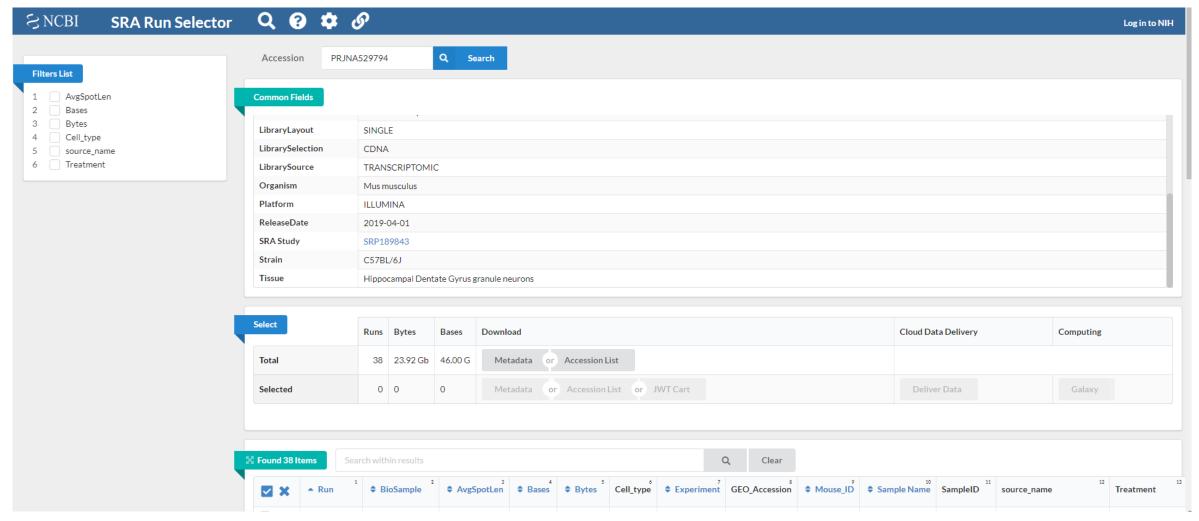


Accessing the data through NCBI GEO





Accessing the metadata





Accessing the metadata

