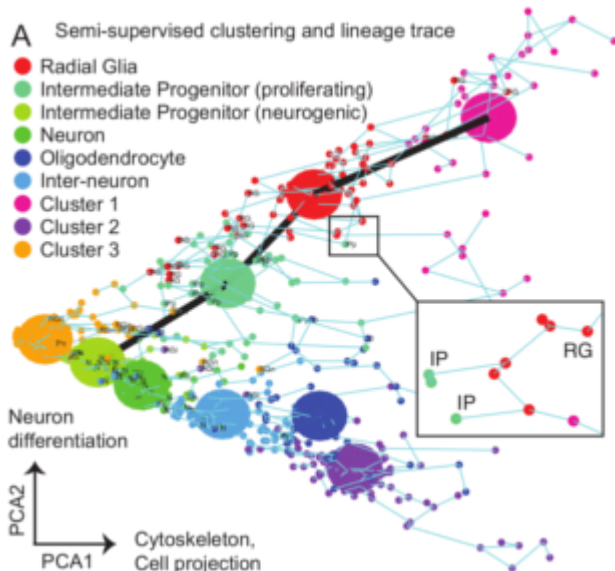


# A census of cell types and states found in the developing brain

Jan 24, 2015



As part of the President's BRAIN [1] (Brain Research through Advancing Innovative Neuro-technologies) Initiative, we are collaborating with the Kriegstein Lab [2] and Lim Lab [3] of the UCSF Stem Cell Center to classify the diverse cell types in the prefrontal cortex of the developing human brain. Our goal is to capture, sequence and analyze over 100,000 cells from human fetal neocortex. Using computational and molecular approaches we are building a classification of the brain's cell types, their lineage relationships and molecular signatures. Analyzing 100,000 RNA-seq datasets in tandem can be challenging, and this work motivates our research efforts in Machine learning for molecular genetics [4].

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**Source URL:** <http://diazlab.ucsf.edu/news/census-cell-types-and-states-found-developing-brain>

## Links:

[1] <http://www.braininitiative.nih.gov/index.htm>

[2] <http://stemcell.ucsf.edu/kriegstein>

[3] <http://danlimlab.ucsf.edu/>

[4] <http://diazlab.ucsf.edu/news/big-data-analytics-for-molecular-genetics>