



Genetics, Bioinformatics, & Systems Biology Colloquium

presents

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LIVE
IN-PERSON
with Pizza

*Live stream via Zoom available

 **Thursday**
Mar. 7, 2024  **12PM**  **Leichtag Auditorium**  **Zoom**

Cell Type-Specific Transcriptional Networks in Brain Evolution and Disease

The human brain is comprised of heterogeneous cell types and understanding the gene expression patterns and chromatin states within each of these cell types can provide important insights into both brain evolution as well as the development of cognitive disorders. We have used single cell genomics to compare human and nonhuman primate brains to uncover human brain innovations including changes in the proportions of immature oligodendrocytes and cell type specific expression patterns of key genes such as FOXP2. We have also applied this approach to brain tissue surgically resected from living humans to determine the cell type specific patterns of genes relevant to human memory encoding. Together, these data highlight the complex intersection of cellular genomics with brain evolution and function.

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