

Talking Data virilization with a Research Investigator

Description:

I had a conversation with a Scientific Research Investigator at center for innovation in brain science who works extensively with single-nucleus RNA-seq, bulk RNA-seq, and lipidomics in neurodegenerative disease research.

Something I learned:

I learned how useful information can be extracted from high-dimensional omics data, such as single-nucleus RNA-seq, to uncover cell-type-specific gene expression patterns. The investigator also explained how lipidomic data contributes to understanding brain metabolism. We also discussed a recent study showing that combination therapy targeting multiple Alzheimer's disease risk factors is associated with a significant delay in cognitive decline.

Connection to INFO 526:

This discussion emphasized the importance of data visualization for interpreting complex multi-omics datasets. It also made me realize how much detailed knowledge I still need to learn to support my own research goals.

Citation:

Shang, Y., Torrandell-Haro, G., Vitali, F., Brinton, R. D., & Alzheimer's Disease Neuroimaging Initiative (ADNI). (2025). Combination therapy targeting Alzheimer's disease risk factors is associated with a significant delay in Alzheimer's disease–related cognitive decline. *Alzheimer's & Dementia: Translational Research & Clinical Interventions*, 11(1), e70074.