

This Zenodo deposit contains a publicly available description of the Dataset:

"team-indipd-ipsc-bulk-rnaseq-kolf21j-wt".

Dataset Description:

This dataset includes whole transcriptome RNA data from three different technologies, Illumina, ONT, and PacBio. We have Illumina RNA data for iPSC and cortical neuron, PacBio RNA for microglia, and ONT RNA for seven cell types: iPSC, cortical neuron, NGN2-derived neuron, microglia, astrocytes x2, and oligodendrocytes. The Illumina and PacBio data was generated at Psomagen while the ONT data was generated at the Center for Alzheimer's and Related Dementias within NIH. PacBio RNA data is Kinnex while ONT data is the R9 chemistry. Average data output per technology includes: Illumina ~18Gb at 150bp, PacBio 134 gb at 1.81 kb, and ONT 16-87Gb at ~1.3kb.

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ASAP Project: KOLF2.1J_WT_ASSEMBLY

Project Description: In this project we are generating and annotating a diploid assembly of the KOLF2.1J reference cell line using long-read sequencing methods. Additionally, we are differentiating KOLF2.1J into multiple derived cell lines and generating DNA, RNA, CAGE, and HI-C data to explore the transcriptomic and epigenetic profiles of KOLF2.1J. The derived cell lines include: cortical neurons, NGN2- derived neurons, microglia, astrocytes and oligodendrocytes. Note: not all data modalities are available for each cell line.

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This dataset is made available to researchers via the ASAP CRN Cloud: cloud.parkinsonsroadmap.org. Instructions for how to request access can be found in the [User Manual](#).

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This Zenodo deposit was created by the ASAP CRN Cloud staff on behalf of the dataset authors. It provides a citable reference for a CRN Cloud Dataset