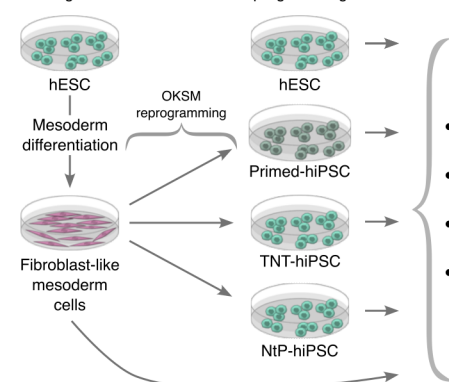


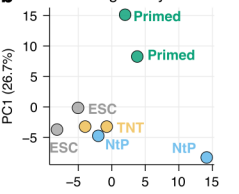
Isogenic differentiation and reprogramming



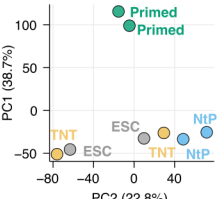
Molecular profiling

- DNA methylation (WGBS)
- Chromatin accessibility (ATAC-seq)
- Gene expression (RNA-seq)
- Repressive chromatin (H3K9me3 ChIP-seq)

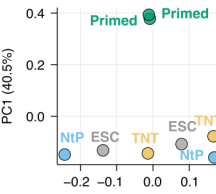
mCG: regulatory elements



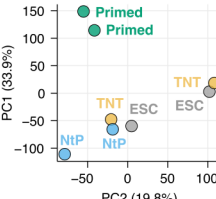
RNA: Gene expression



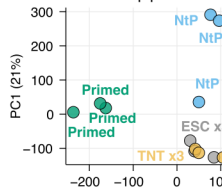
mCA: 50kb windows



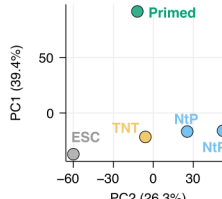
RNA: TE expression



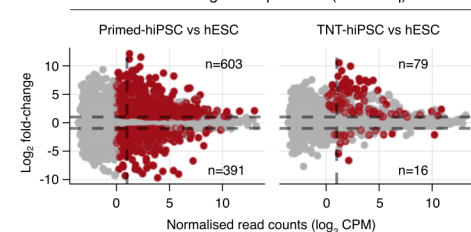
ATAC-seq: peaks



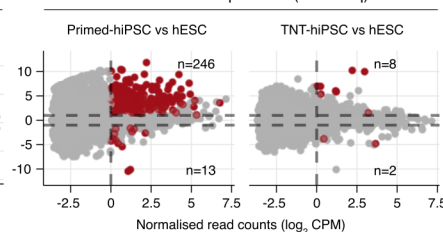
H3K9me3: 10kb windows



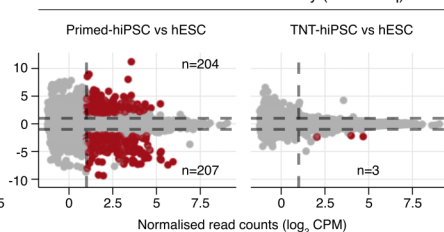
Differential gene expression (RNA-seq)



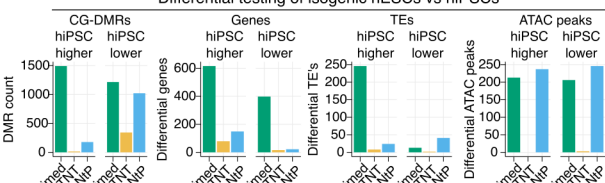
Differential TE expression (RNA-seq)



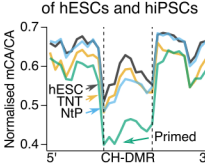
Differential chromatin accessibility (ATAC-seq)



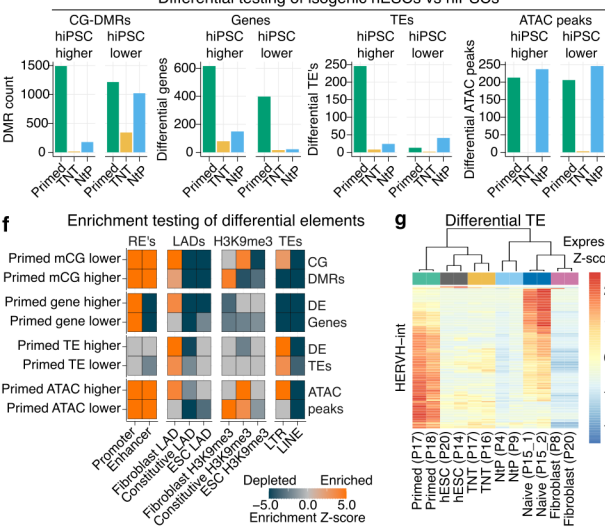
Differential testing of isogenic hESCs vs hiPSCs



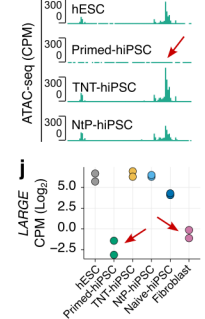
CH-DMR profiling of hESCs and hiPSCs



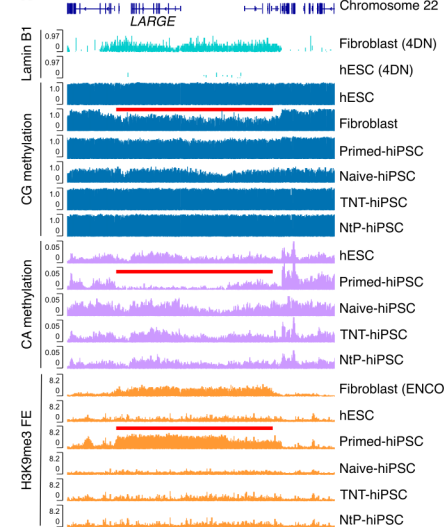
Enrichment testing of differential elements



Differential TE



CH-DMR profiling of hESCs and hiPSCs



Enrichment testing of differential elements

