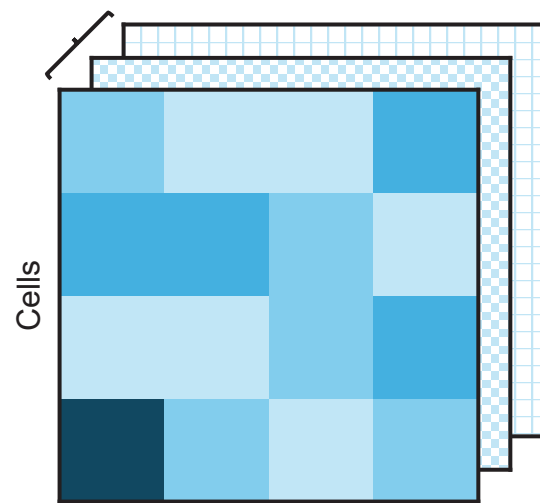
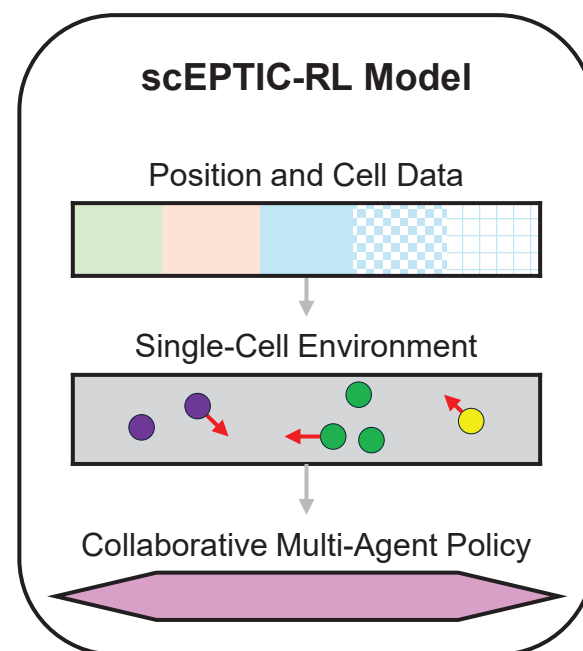


a

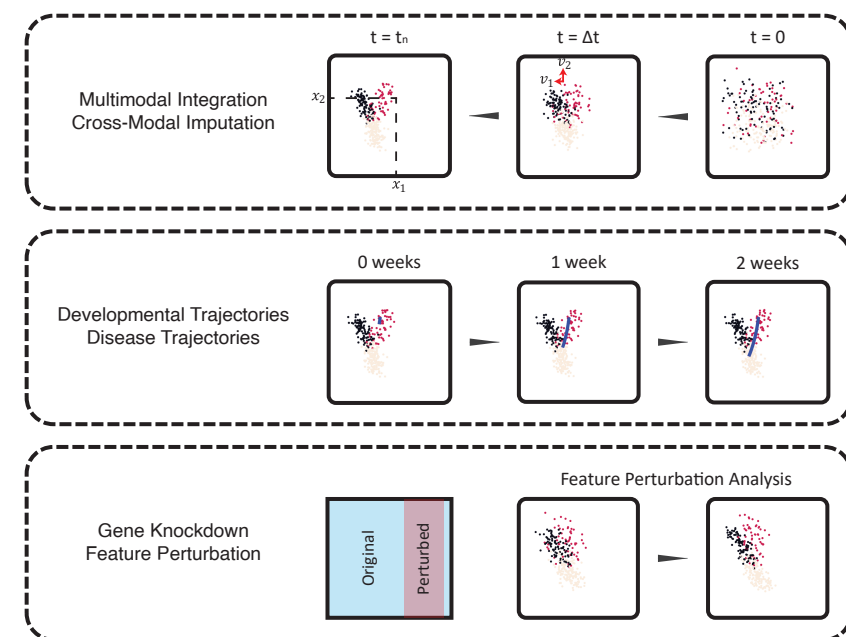
Modalities
(Gene Expression, Chromatin Accessibility, etc.)



Features
(Genes, Chromatin Regions, etc.)

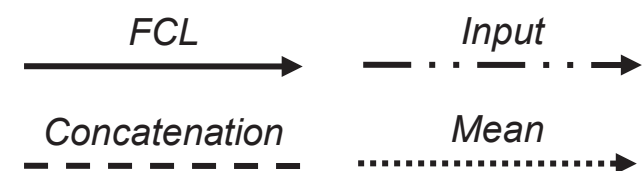


b

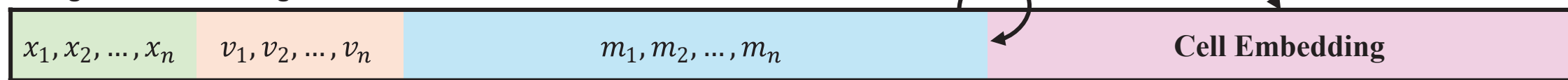


c

Cell Embedding



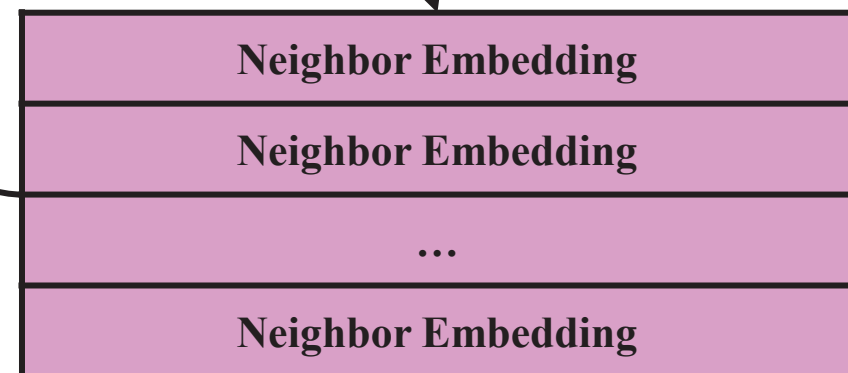
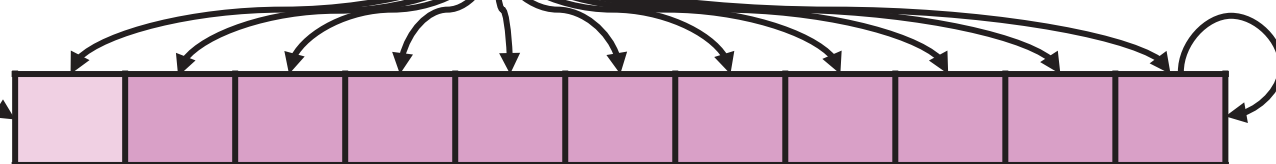
Neighbor Embedding



#Cells



Residual Self-Attention



State Vector

$\Delta v_1, \Delta v_2, \dots, \Delta v_n$