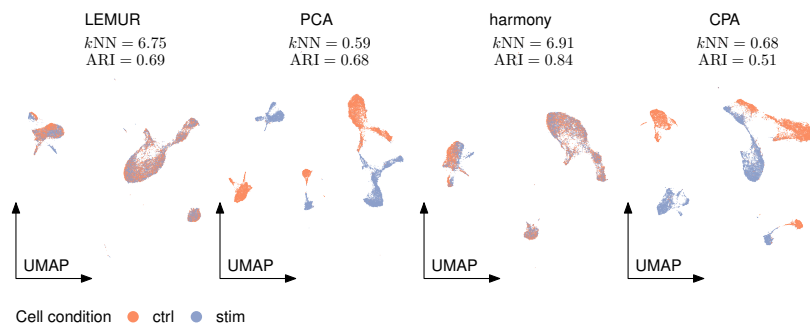
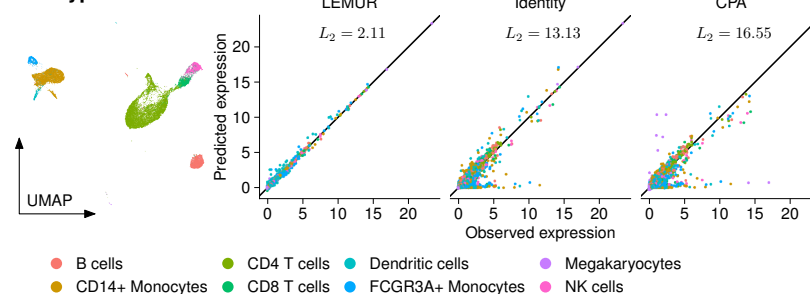
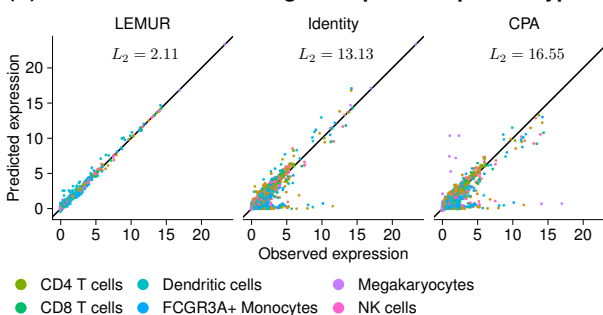
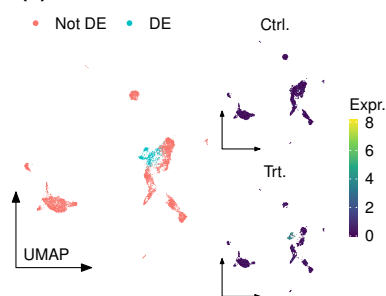
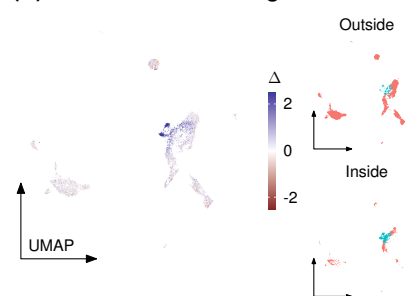
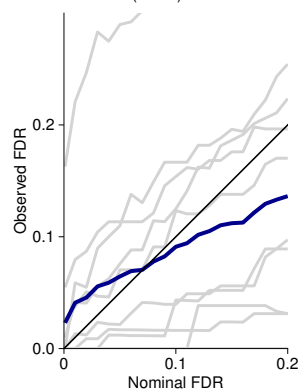
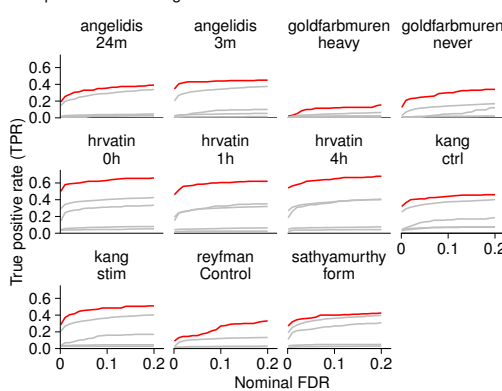
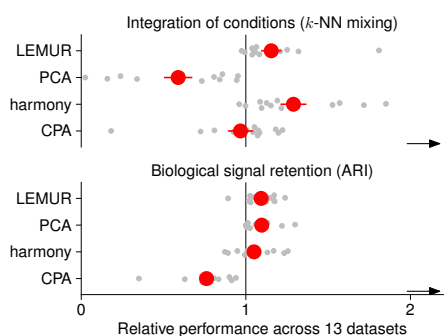
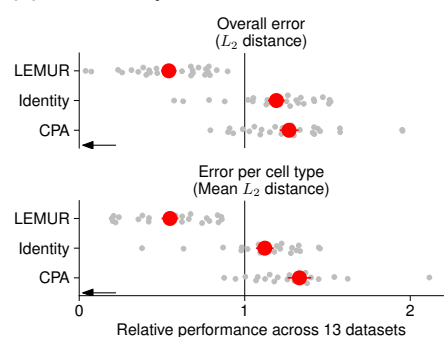
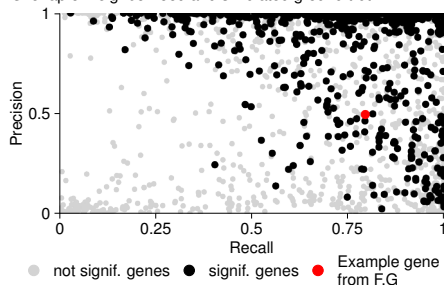


(A) Latent space (Z) of Lupus patient samples treated with IFN- β **(C) Z colored by cell type****(D) Predicted vs. observed gene expression per cell type****(F) Simulated DE****(G) Predicted DE with neighborhood****(I) FDR control**

Eleven datasets (mean)

**(J) DE-test Power**Comparison of *lemur* against four other DE. methods**(B) Integration performance****(E) Prediction performance****(H) Neighborhood Precision and Recall**

Overlap of neighborhood and simulated ground truth

**(K) Power by no. cell with expr. change**Fraction of simulated genes (grey) with $\min FDR_g < 0.1$ (blue)