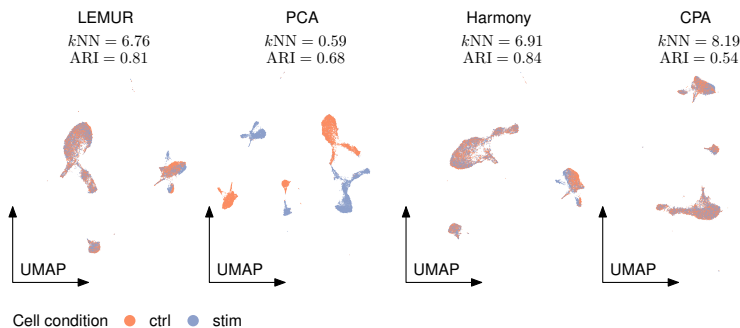
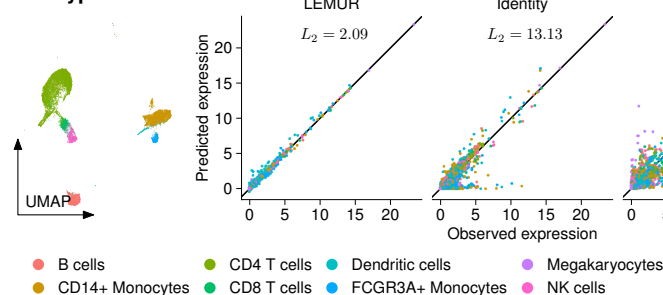
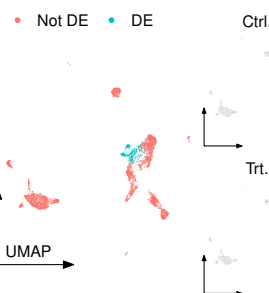
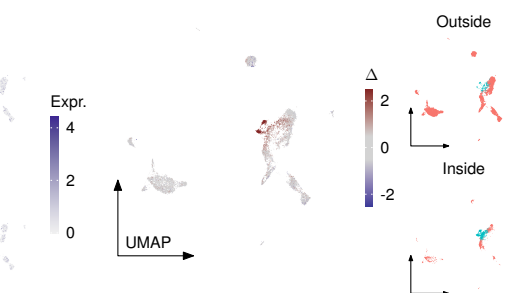
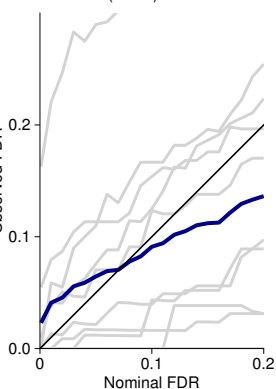
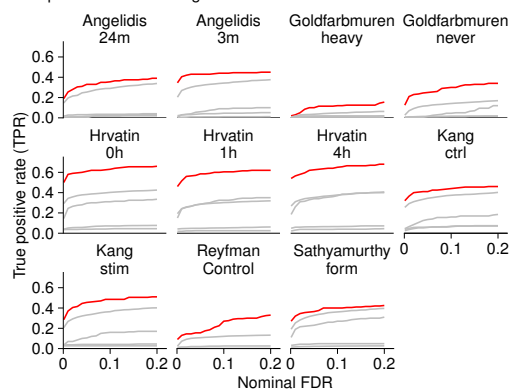
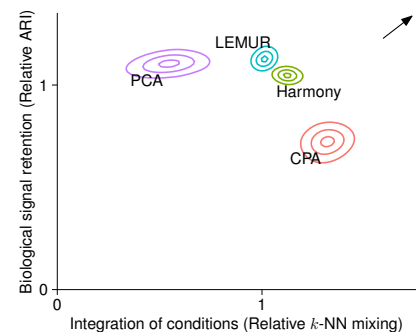
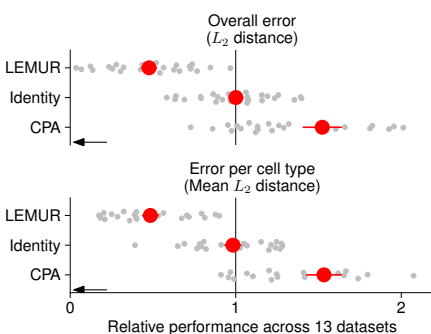


(A) Latent space (Z) of Lupus patient samples treated with IFN- β (Kang)**(C) Z colored by cell type****(F) Simulated DE****(G) Predicted DE with neighborhood****(I) FDR control**

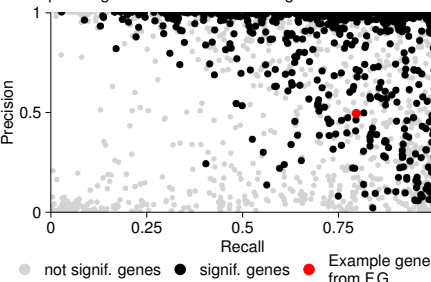
Eleven datasets (mean)

**(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 FDR < 0.1 (blue)

