Comparing train and test correlation scores over training iterations Fold 1 / 2 mfa identity cellTree with maptpx monocle with DDRTree 1.50 -0.7 0.76 1.25 -0.6 0.72 0.5 1.00 -0.68 0.4 0.75 -0.64 0.3 0.50 | 0.50 0.7 0.75 0.72 0.75 0.78 1.00 1.25 0.5 0.6 1.50 0.4 0.2 0.3 monocle with ICA SCORPIUS shuffle random 0.03 0.03 0.02 -0.02 test.correlation iteration_i 100 0.01 0.01 75 50 0.00 -0.00 -0.01 -0.01 0.80 -0.02 0.60 0.03 0.04 0.65 0.70 0.75 0.00 0.00 0.01 0.02 0.02 0.01 0.03 -0.01SLICER slingshot Waterfall Wishbone 0.02 0.775 -0.76 0.01 0.750 -0.00 0.72 -0.01 0.68 -0.700 --0.02 0.675 1 0.80 0.64 train.correlation 0.8 0.75 0.72 0.70 0.68 0.76 0.2 0.4 0.6 -0.01 0.00 0.01 -0.02

Comparing train and test correlation scores over training iterations Fold 2 / 2 mfa identity cellTree with maptpx monocle with DDRTree 1.50 -0.80 1.25 -0.6 0.75 1.00 -0.4 0.70 0.75 -0.2 0.65 · 0.50 | 0.50 0.75 0.7 0.725 0.750 1.00 1.25 0.5 0.650 0.675 0.700 1.50 0.4 0.6 0.3 0.2 monocle with ICA SCORPIUS shuffle random 0.8 0.03 0.03 -0.02 0.02 test.correlation iteration_i 100 0.7 75 50 0.01 25 0.01 0.6 0.00 0.00 0.03 0.00 0.01 0.02 -0.01 0.02 -0.02 0.00 0.04 Waterfall SLICER slingshot Wishbone 0.8 0.02 0.76 0.76 -0.6 0.01 0.72 0.00 0.68 -0.68 --0.01 · 0.2 0.64 0.78 0.03 0.76 -0.01 0.00 0.01 0.02 0.70 0.72 0.74 0.68 0.72 0.68 0.76 train.correlation