Comparing train and test auc\_R\_nx scores over training iterations Fold 1 / 2 DPT embeddr cellTree with maptpx identity 0.3 0.3 -0.20 0.75 -0.2 0.15 0.10 0.1 0.1 0.70 0.05 0.0 -0.00 500 500 500 300 300 300 100 200 400 200 400 300 400 500 100 200 200 400 100 monocle with DDRTree random mfa monocle with ICA 0.25 -0.0050 -0.20 0.225 0.20 0.0025 0.15 0.200 -0.15 0.10 0.0000 0.175 0.10 0.05 -0.05 0.150 --0.0025 auc\_R\_nx 0.00 fold\_type 500 500 400 500 300 200 300 200 300 400 400 300 500 200 100 200 400 100 100 100 test SCORPIUS SLICER Waterfall slingshot train 0.3 0.30 0.004 0.28 0.002 -0.25 0.24 0.000 0.20 0.1 0.20 -0.002 0.15 300 500 200 400 500 300 500 300 500 200 400 200 100 100 200 300 400 100 400 100 Wishbone 0.3 -200 500 300 400 newparam\_i

Comparing train and test auc\_R\_nx scores over training iterations Fold 2 / 2 DPT cellTree with maptpx identity embeddr 0.3 0.3 -0.20 -0.75 -0.2 0.15 0.70 0.10 -0.1 0.65 0.1 0.05 0.60 -0.0 -0.00 500 500 300 300 300 500 100 200 400 200 400 200 400 100 200 300 400 500 100 monocle with ICA mfa monocle with DDRTree random 0.0050 -0.25 0.20 0.225 0.20 0.0025 0.15 0.15 0.200 0.0000 0.10 0.10 0.175 -0.05 -0.0025 0.05 auc\_R\_nx fold\_type 400 500 500 200 300 300 200 300 400 400 500 500 200 100 300 400 100 100 200 100 test SCORPIUS SLICER Waterfall slingshot train 0.006 0.300 -0.3 0.30 0.004 -0.275 0.002 -0.25 0.250 0.000 0.20 0.225 -0.002 0.0 0.200 500 200 300 100 400 500 300 500 300 500 200 400 100 400 200 300 400 100 200 100 Wishbone 0.3 -500 300 200 400 100 newparam\_i