Predictors vs experimental outcome ABC (A=scATAC, C=power law) ARC-E2G score ArchR (Pearson correlation) Cicero (co-accessibility) DIRECTNET (importance) 1.00 8.0 1.5 0.6 0.6 0.75 0.6 1.0 0.4 0.50 0.4 0.5 0.2 0.2 0.25 0.2 0.00 0.0 TRUE FALSE TRUE TRUE FALSE TRUE TRUE FALSE FALSE FALSE Distance to TSS (kb) Kendall correlation scE2G (ATAC) scE2G (Multiome,ignoreTPM) FigR (p-value) 0.125 1250 1.00 1.00 -1.00 1000 0.100 0.75 0.75 0.75 0.075 750 0.50 0.50 0.50 0.050 500 0.25 0.25 0.25 0.025 250 Predictor value (sqrt) 0.00 0.000 -0.00 0.00 FALSE FALSE TRUE FALSE TRUE FALSE TRUE TRUE TRUE FALSE scE2G (Multiome,TPM>1) SCENIC+ (importance) SCENT (bootstrap p-value, -log10, signed) scE2G (Multiome,qnorm_TPM>1) Signac (p-value) 1.00 1.00 -0.15 0.75 0.75 0.10 0.50 0.50 0.05 -0.25 0.25 0.25 0.00 0.00 0.00 FALSE TRUE FALSE TRUE FALSE TRUE FALSE TRUE FALSE TRUE SnapATAC (z-score) STARE (gABC, power law) 7.5 0.4 5.0 0.2 2.5 TRUE FALSE TRUE FALSE Experimental E-G pair