Norman Seen0 Top20 Seen2 Top20 0.6 0.5 0.4 ∑ ₹ 0.3 0.2 0.1 0.0 **GEARS** SCELMO **GEARS** CPA CPA scGPT scGPT PerturbNet NoPerturb PerturbNet scFoundation NoPerturb scFoundation Baseline

Buffering

Synergy