

**Supplemental Table 2:** Spearman's rank correlation and RMSE of the different clocks' predictions with actual cell passage of 26 samples that were not used to build the clock.

Clock	Spearman's Rho	p-value	RMSE
Multi-tissue clock	0.41	0.03837	33.21
PhenoAge clock	0.62	0.00070	14.01
Skin and Blood clock	0.81	4.8e-07	11.89
CellAgeClock	0.98	< 2.2e-16	0.79