

Table S2: Choice of K for sNMF using the cross-entropy criterion (simulated data).

	Dir(1, 1, 1)	Dir(.5, .5, .5)	Dir(.1, .1, .1)	Dir(.2, .2, .05)	Dir(.2, .2, .5)	Dir(.05, .05, .01)
$K = 2$	0.713	0.703	0.682	0.662	0.706	0.645
$K = 3$	0.707	0.691	0.660	0.642	0.697	0.624
$K = 4$	0.708	0.692	0.661	0.644	0.699	0.626
$K = 5$	0.710	0.694	0.663	0.645	0.700	0.628

Dir: Dirichlet distribution used to simulate "true" admixture coefficients using 3 ancestral populations.