



**FIGURE S1** Comparing heritability estimates between Case 1 and Case 2. The horizontal axis is the value of a parameter  $c$ , such that  $\mu_{u,1 \rightarrow 0} = 0.5 + c(0.5 - \mu_{u,0 \rightarrow 1})$  for  $u \in \{x, y\}$ . The vertical axis is the estimated heritability for that set of parameters. Each curve plotted corresponds to a different value of  $\mu_{x,0 \rightarrow 1}$ , with  $\mu_{y,0 \rightarrow 1} = 0.1$  throughout. For all curves, the other parameters are  $\alpha = 0.1$ ,  $r = 0.5$ ,  $\delta = 0.4$ ,  $e = 0.1$ ,  $a = 0.5$ , and  $m = 0.5$ .