

Table S1: Parameter and priors for ABC fitting procedure.

Parameter		Prior	Slow loss			Rapid loss		
			Mean	89% HPDI ^d	COV ^e	Mean	89% HPDI	COV
s	$\sim$	Uniform(0.1, 80)	54.1	28.8–80.0	0.329	53.5	28.4–79.9	0.334
c	$\sim$	Uniform(0.05, 0.95)	0.502	0.186–0.834	0.395	0.582	0.285–0.905	0.346
w	$\sim$	Uniform(0.1, 10)	2.18	0.732–4.42	0.552	1.30	0.429–2.64	0.545
m	$\sim$	Uniform(0.0, 5.0) ^a	2.08	0.621–3.91	0.476	1.91	0.697–3.62	0.478
χ_m	$\sim$	Uniform(0.01, 1.0) ^b	0.489	0.475–0.501	0.017	0.187	0.174–0.200	0.045
σ	$\sim$	Uniform(0.01, 5.0) ^c	1.44	1.40–1.49	0.025	0.318	0.272–0.358	0.103

^a Maximum rate for mutant cells and normal cells without treatment

^b Ratio of treated to untreated normal cell maximum growth rate

^c Standard deviation of noise distribution [$\sim \mathcal{N}(0, \sigma)$]

^d Highest posterior density interval

^e Coefficient of variation