



Neutral Evolution

Neutral & Purifying Selection

Figure S5 Simulation validation: neutral evolution (NEU) and background selection (BKG) models. Under the neutral evolution model and at three recombination rates, the expected steady-state level of nucleotide polymorphisms at all loci (green lines) was $\pi_0=2N\mu$ (dashed lines) while population fitness (cyan lines) remained at one (panels A, B, and C). In the presence of background purifying selection at a second locus (blue lines in panels D, E, and F), the expected π values at the neutral locus were reduced to $\pi_0 \exp\{-U/(s+R)\}$ (red dashed lines) (HUDSON and KAPLAN 1995).