

Supplementary materials for “Muller’s ratchet of the Y chromosome with gene conversion”

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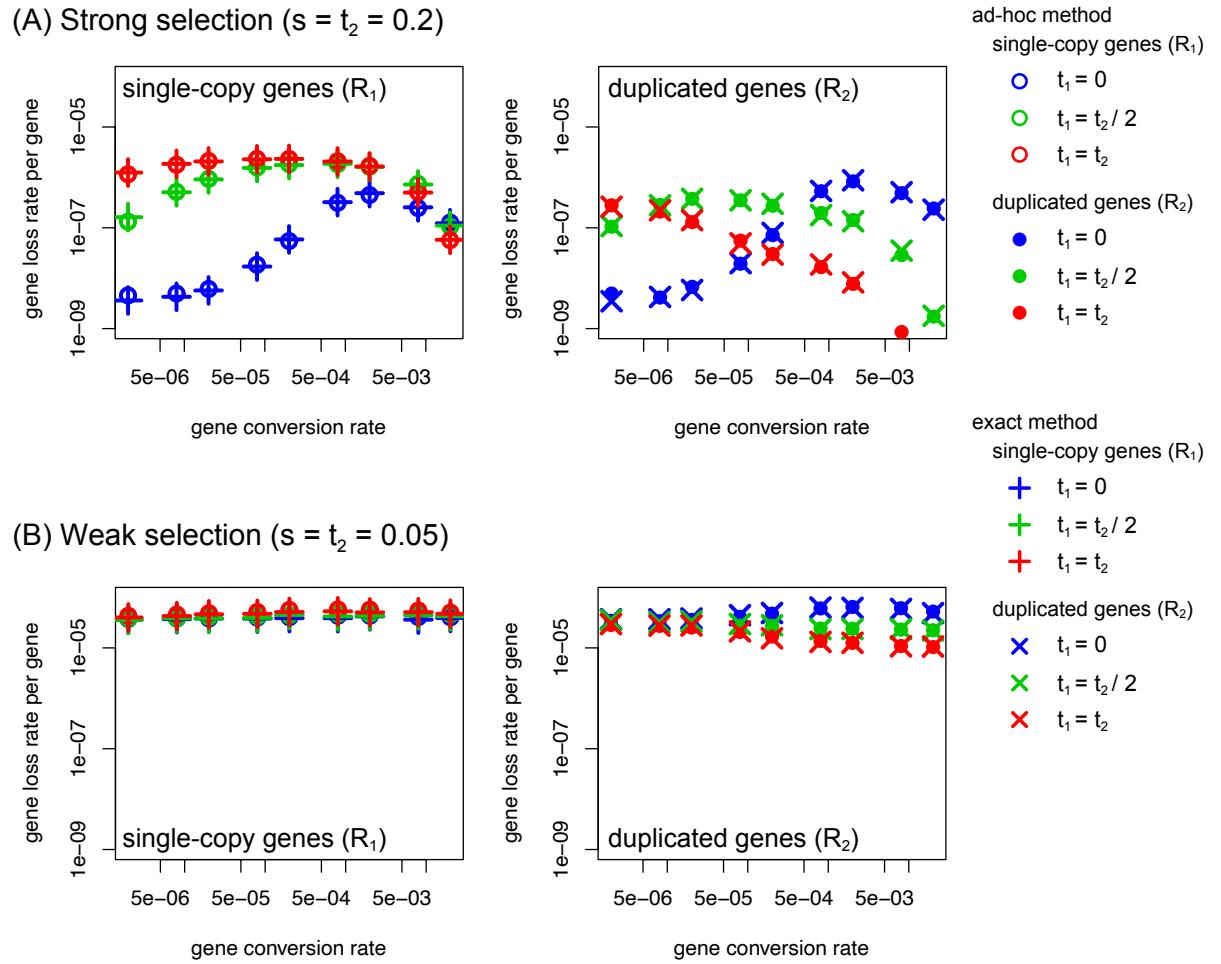


Figure S1: Verification our ad-hoc method. The results of our ad-hoc method (circles) are compared with the results of the exact method (crosses). $N = 500$, $u = 2.0 \times 10^{-4}$, $L_1 = L_2 = 1,000$ were assumed in the simulations.

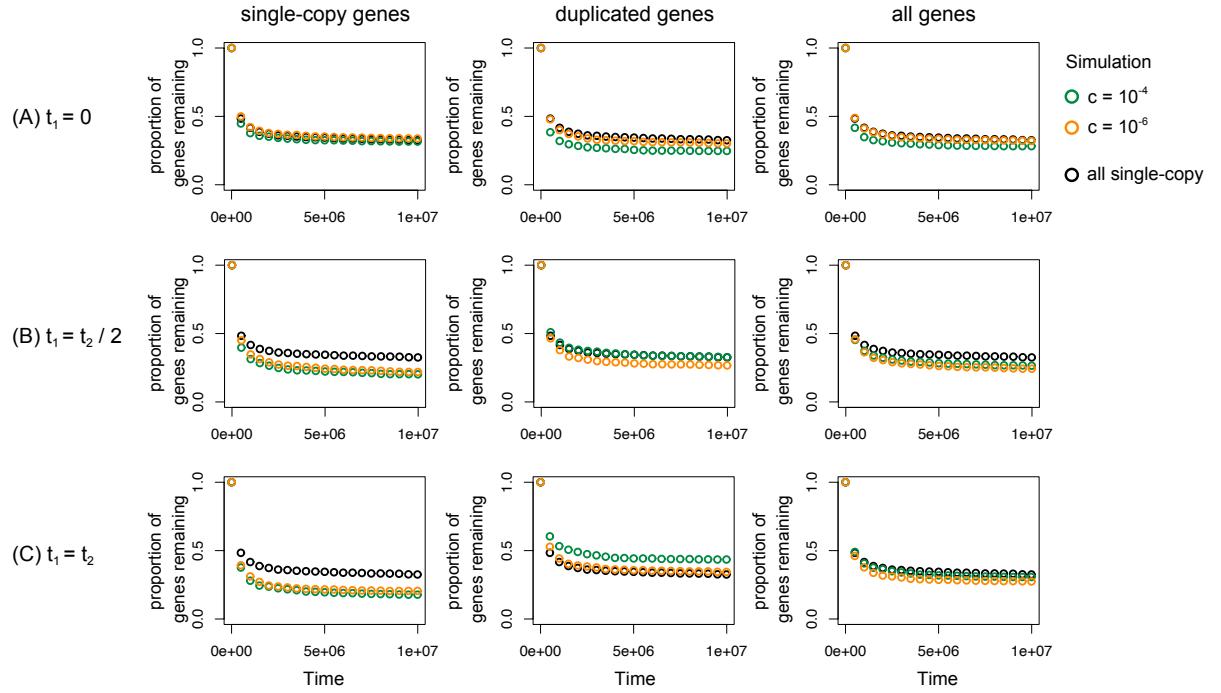


Figure S2: Long-term degeneration process for different dominances when the selection coefficients are not constant over genes: (A) $t_{1,i} = 0$, (B) $t_{1,i} = t_{2,i}/2$, and (C) $t_{1,i} = t_{2,i}$ are assumed. The strength of selection ($s_i, t_{2,i}$) is randomly drawn from an exponential distribution with mean $\bar{s} = 0.0025$ (see text). Other parameters are $N = 10,000$, $u = 1.0 \times 10^{-5}$, and $L_1 = L_2 = 1,000$.