Table S1 Possible pairs of parents for a random individual in the hybrid population H at generation g, and their probabilities. Note that at generation 0, $h_0 = 0$ because the hybrid population is not yet formed. The indices i and j represent distinct populations.

Populations of origin of the parents of a random individual in population H at generation $g \ge 1$	Probability
S _i and S _i	$s_{\mathrm{i,g-1}}^2$
S _i and H (or H and S _i)	$2s_{i,g-1}h_{g-1}$
S_i and S_j (or S_j and S_i)	$2s_{i,g-1}s_{j,g-1}$
H and H	$h_{\mathrm{g-1}}^2$
S _j and H (or H and S _j)	$2s_{j,g-1}h_{g-1}$
S _j and S _j	$s_{\mathrm{j,g-1}}^2$