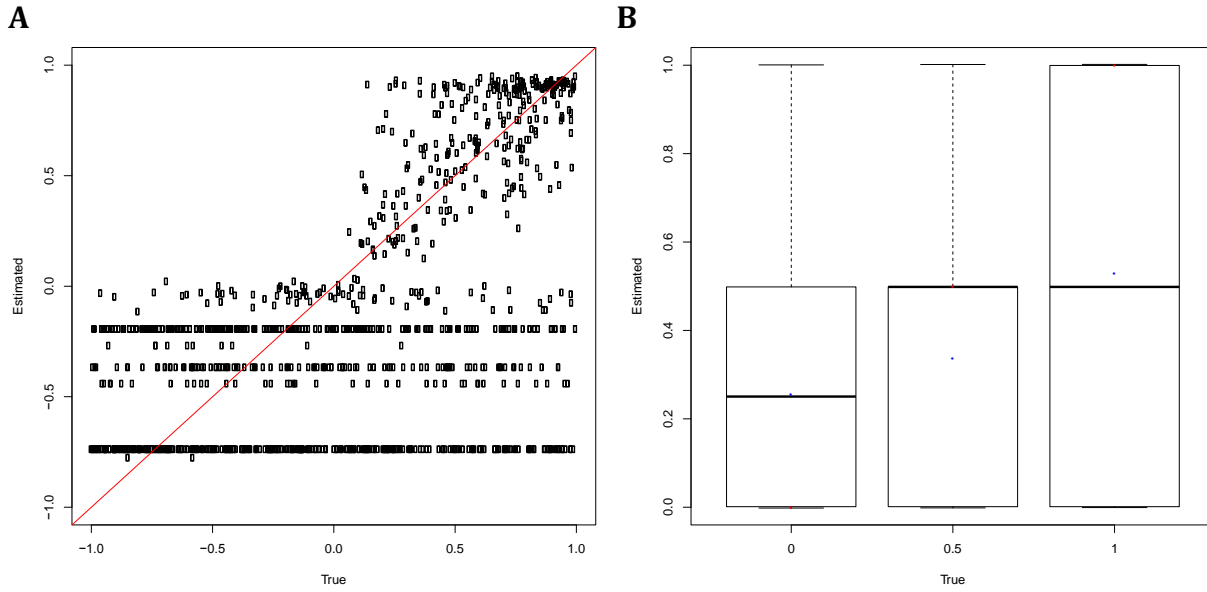**Figure S6.** ABC model choice parameter estimations for 1000 pseudo-observables with a diploid population of N_e=50. Each circle is the mode of the posterior distribution from the 0.1% best simulations.

Case 1: Pseudo-observables with constant selection (A) M_0 estimates of s (B) M_0 estimates of h

A

B

Case 2: Pseudo-observables with changing selection (C) M_1 estimates of $s1$ (D) M_1 estimates of $s2$ (E) M_1 estimates of CP (F) M_1 estimates of h

C

D

E

F