Figure S8: Distribution of the estimated XtX of the SNPs as a function of their underlying regression coefficient β_i from analyses under different model parameterizations (same as Figure S6 except that $\Omega = \widehat{\Omega}_{\text{HSA}}^{\text{benv}}$ for SpaH and $\Omega = \widehat{\Omega}_{\text{BTA}}^{\text{benv}}$ for SpaB data). For a given scenario (SpaH and SpaB), results from the ten replicates are combined. In each plot, the solid line represent the theoretical expectation of the XtX statistic (i.e., the number of populations J) and the dashed line the 1% threshold defined using values obtained for SNPs with $\beta_i = 0$.