Results for the simulations under H₀

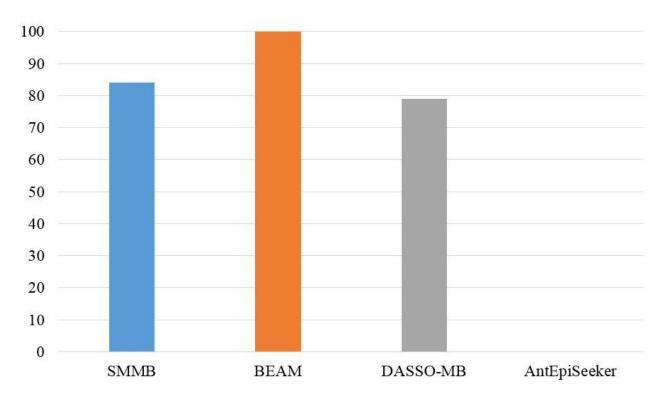


Figure 1. Comparison of true negative rates between SMMB, BEAM, DASSO-MB and AntEpiSeeker, for the data simulated under hypothesis H₀. The true negative rate is defined as the percentage of datasets for which no epistasis interaction has been identified (TNR = #TN / (#TN + #FP)). Simulated data: 4000 individuals, 100 SNPs, MAFs in [0.05, 0.5], number of datasets replicated = 100. Parameters for SMMB: t = 1000, t = 100, t = 30, t = 10, t = 3, t = 1000. Parameters for BEAM: t = 1000, t =

Comments

With around 16% of false positives, SMMB ranks second behind BEAM (0% of false positives). DASSOMB shows 21% of false positives. AntEpiSeeker output a false positive for each of the 100 simulated datasets.