

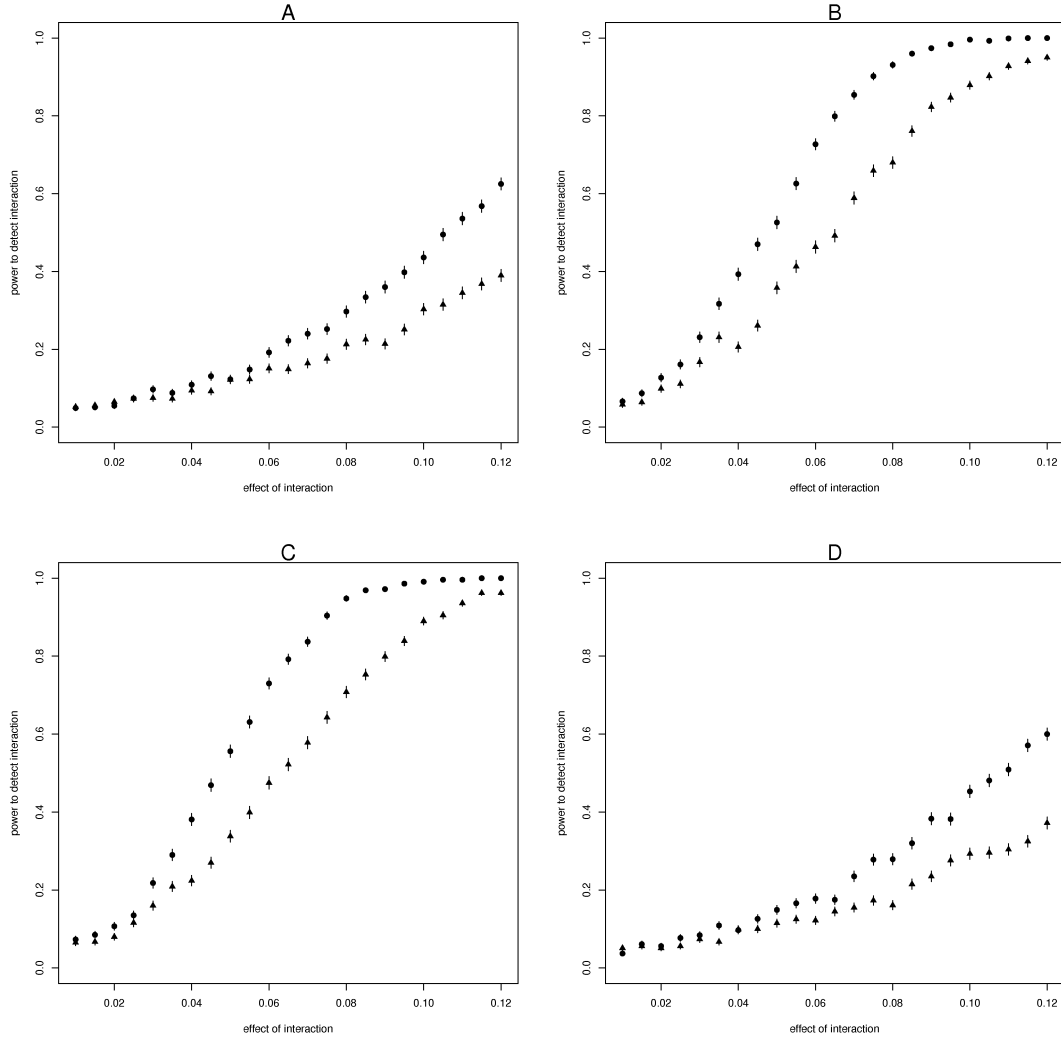


Figure S1: **Power to detect variance heterogeneity induced by interaction, assuming $\chi^2_{df=1}$ distribution of residual error.** Dependency of power to detect variance heterogeneity induced by interaction and the effect of interaction, β_{gF} , using Levene's (circles) and SVLM (triangles) tests. The residual error follows $\chi^2_{df=1}$ distribution. Scenarios with different frequencies of interacting allele are given in Panel A – 5%, Panel B – 40%, Panel C – 60%, and Panel D – 95%.