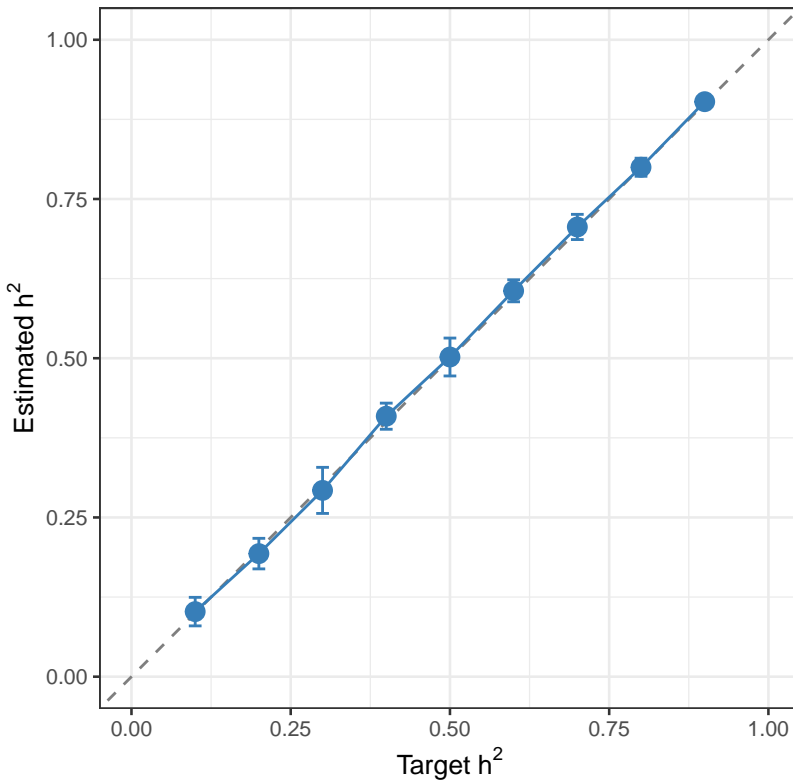


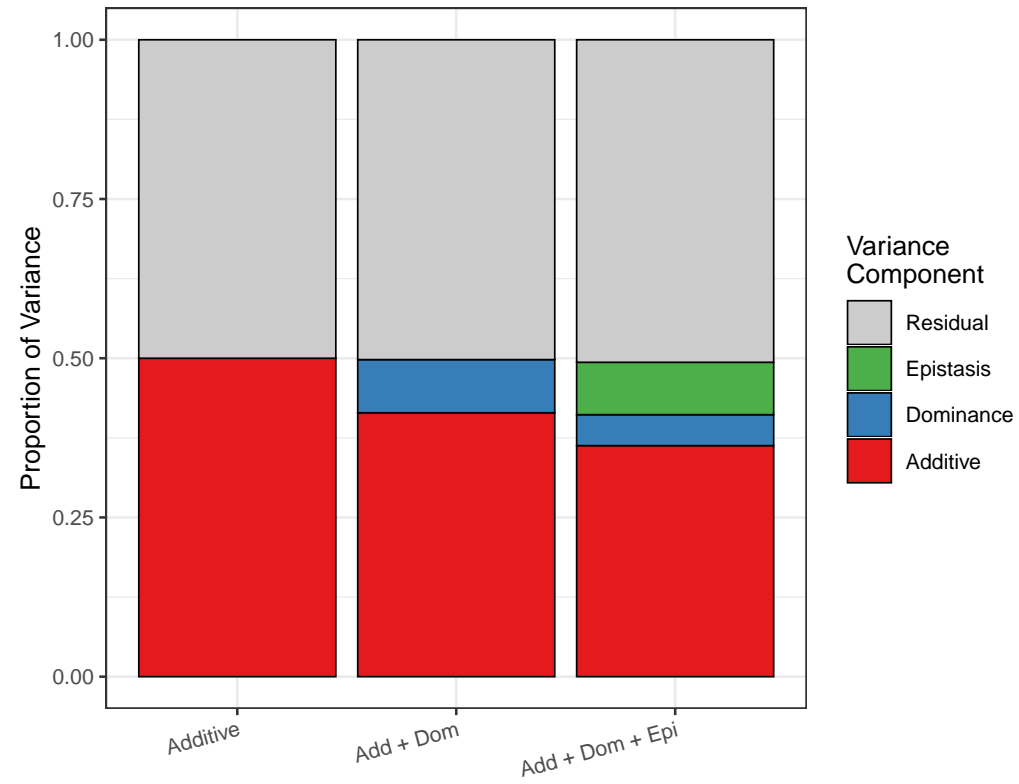
Supplementary Figure S2: Advanced Phenotype Simulation Validation

Simulated population: 500 samples, 1000 SNPs, 20 QTNs

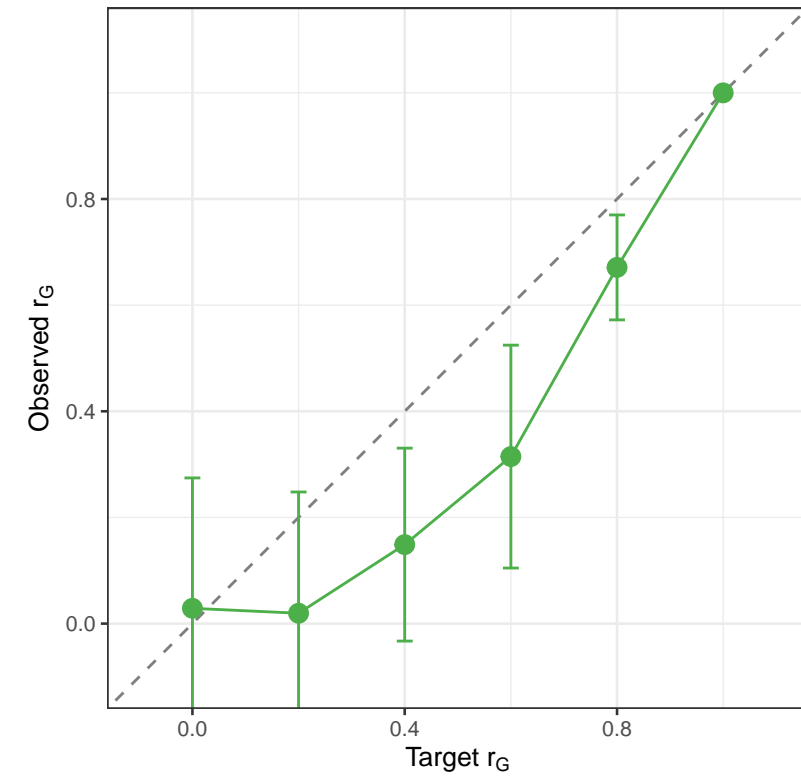
A. Heritability Accuracy



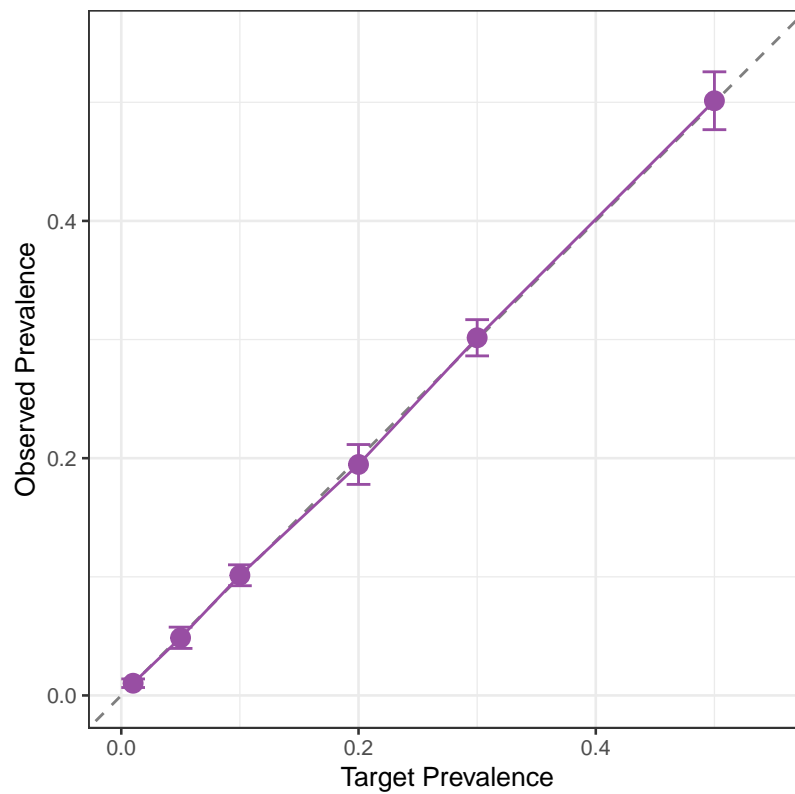
B. Genetic Architecture Models



C. Multi-Trait Genetic Correlation



D. Binary Trait (Liability Threshold)



E. Gene-Environment Interaction

