

Features	Computer Software for Association Mapping							
	Multiple-locus methods						Single-locus methods	
	AMplus	bigRR	glmnet	LMM-Lasso	MLMM	r2VIM	FaST-LMM	GEMMA
purpose built [†]	✓	✓	✗	✓	✓	✓	✓	✓
user manual	✓	✗	✓	✗	✓	✗	✓	✓
all snps fitted simultaneously	✓	✓	✓	✓	✗	✗	✗	✗
capacity to include other fixed effects [‡]	✓	✓	✓	✗	✓	✓	✓	✓
limited memory [*]	✓	✗	✗	✗	✗	✗	✓	✗
best set of snp returned as result [↑]	✓	✗	✗	✗	✓	✗	✗	✗
error checking	✓	✗	✗	✗	✗	✗	✓	✗

[†] computer software specifically designed for the analysis of data from GWAS

[‡] allows for the effect of population structure to be included as additional fixed effects

^{*} able to deal with data larger than the memory capacity of the computer

[↑] no need to determine which marker loci are significant relative to some threshold or further analysis to calculate the significance of the findings.