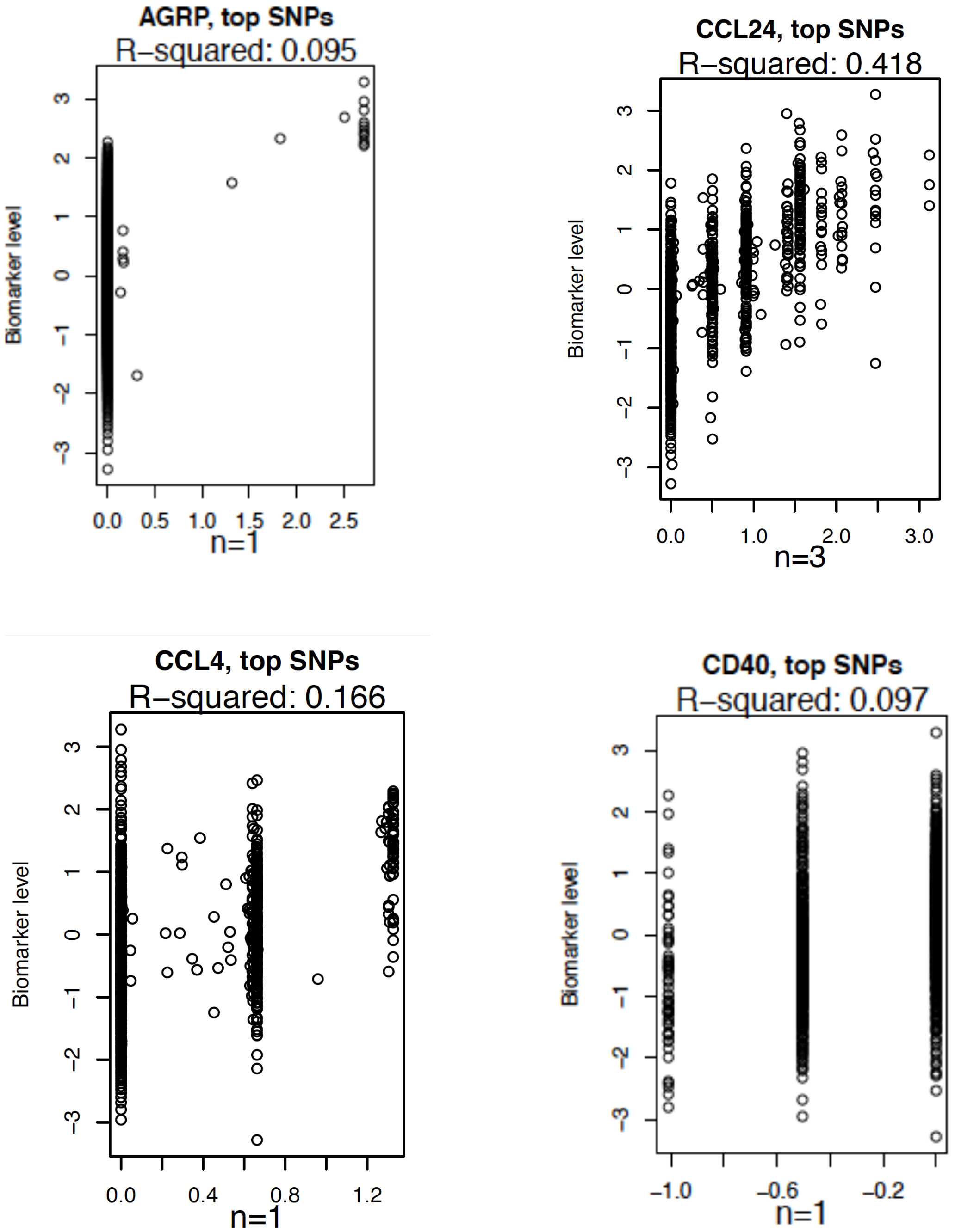
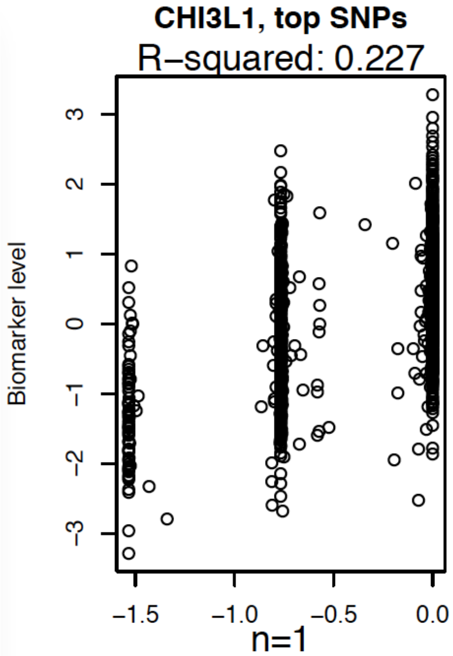
Supplemental Fig S6. *Allelic effects on biomarker levels. The X-axis represents the weighted (by the regression coefficients) allelic effects by the top GWAS SNPs and the Y–axis is the measured biomarker level for each individual. For biomarkers with more than one independent SNP, all independent cis-SNPs are included, and N indicates the number of SNPs included. R-squared is the fraction of the variance in biomarker levels explained by all (N) variants. For biomarkers with N=1, most individuals are in either of three clusters that correspond to individuals being homozygous for the minor or major allele or individuals being heterozygous. Dosage values for the imputed genotypes are used, and therefore, some individuals are located outside the three clusters. For biomarkers with more than one SNP included as IVs; more than three clusters are observed which agrees with the higher number of possible allele-combinations*


AGRP, top SNPs
R–squared: 0.095

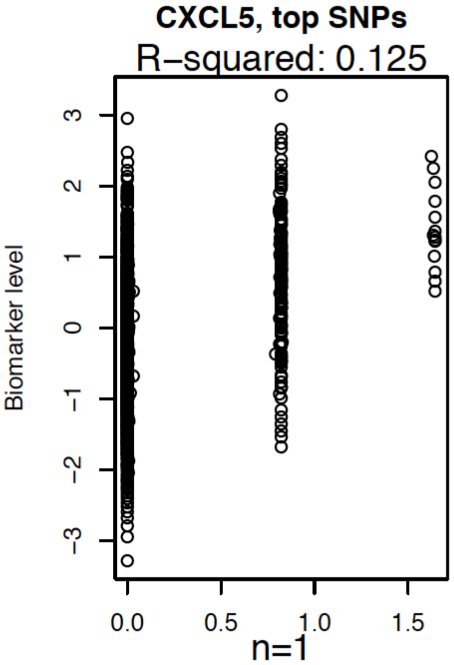
CCL24, top SNPs
R–squared: 0.418

CCL4, top SNPs
R–squared: 0.166

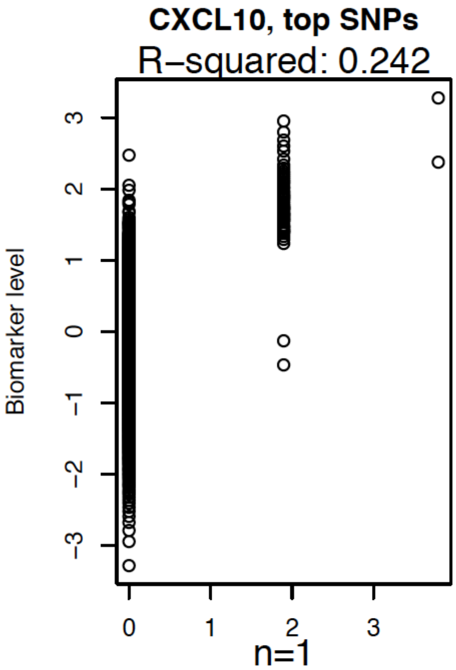
CD40, top SNPs
R–squared: 0.097


CHI3L1, top SNPs

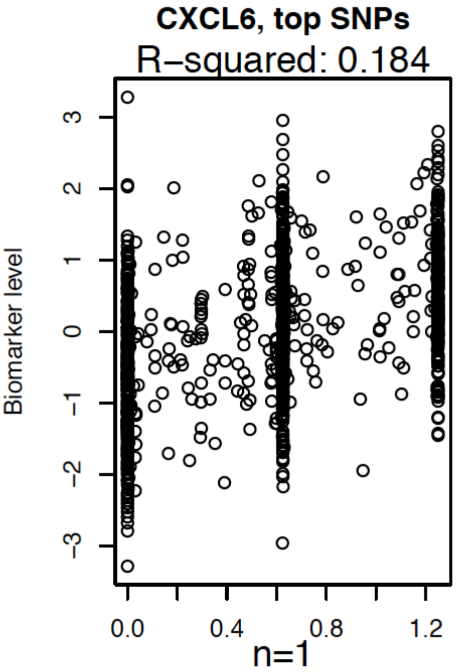
R–squared: 0.227


CXCL5, top SNPs

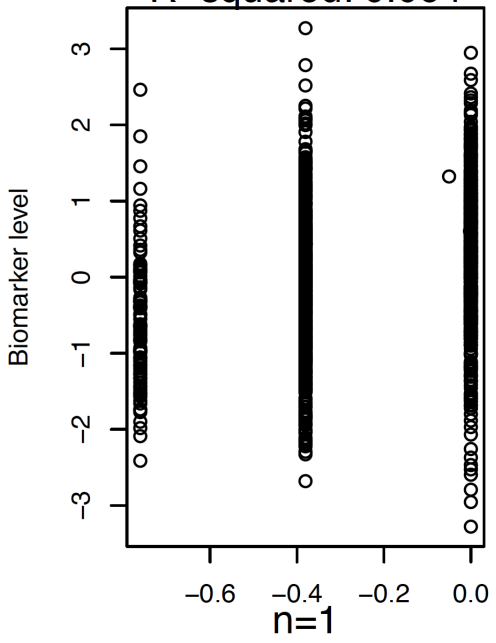
R–squared: 0.125


CXCL10, top SNPs

R–squared: 0.242

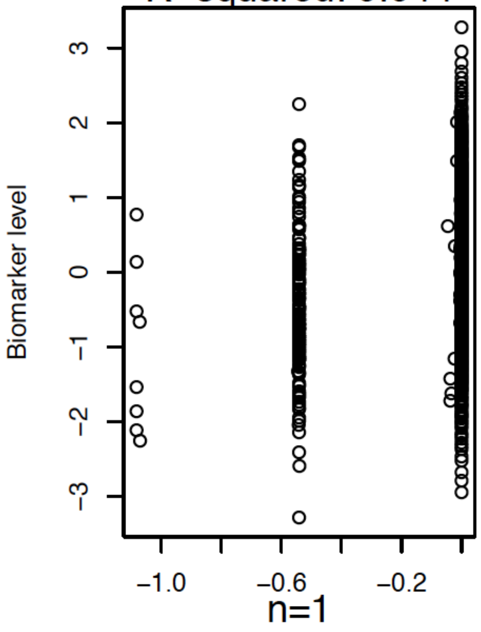

CXCL6, top SNPs

R–squared: 0.184



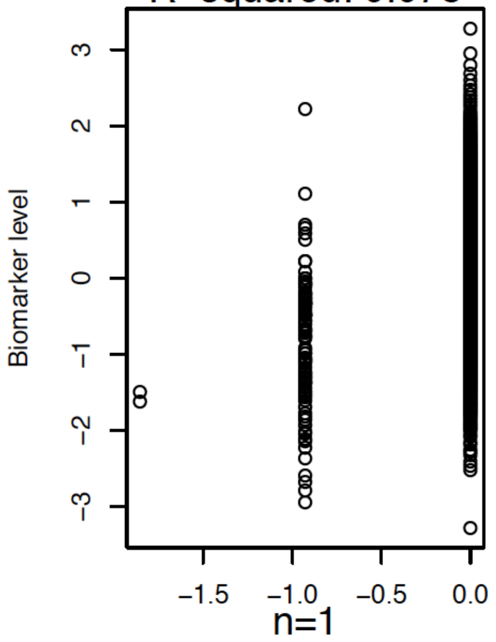
Cystatin_B, top SNPs

R−squared: 0.064



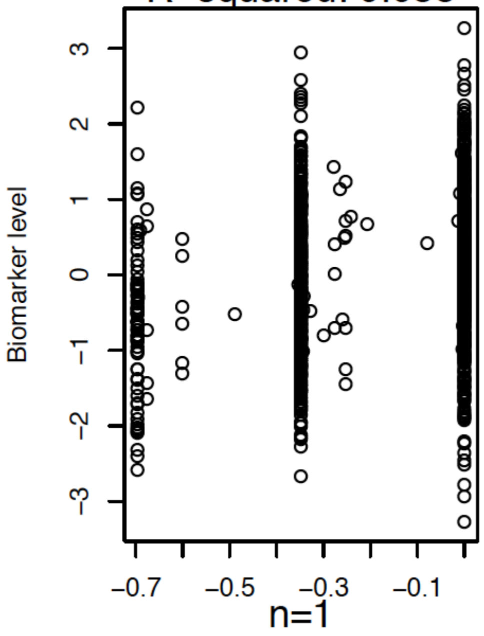
Galectin−3, top SNPs

R−squared: 0.044



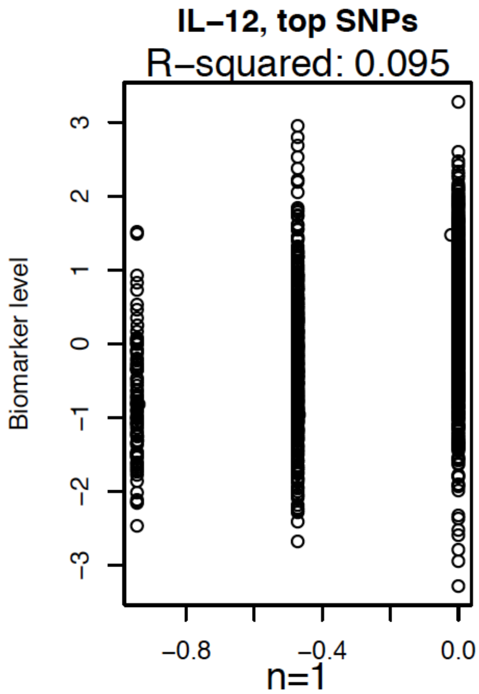
Ep−CAM, top SNPs

R−squared: 0.078

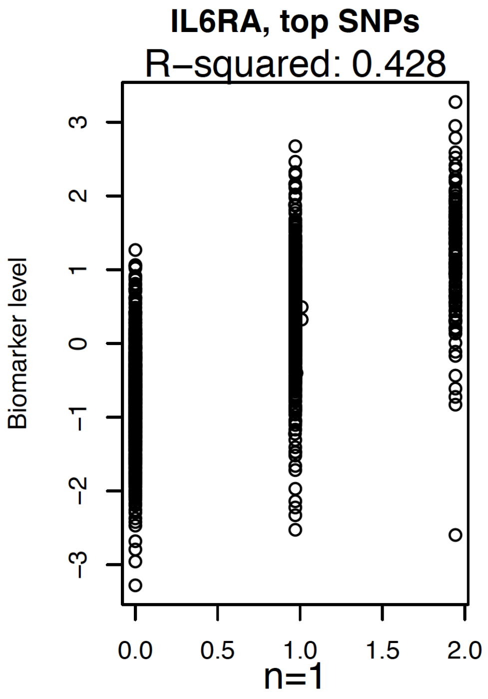


HSP_27, top SNPs

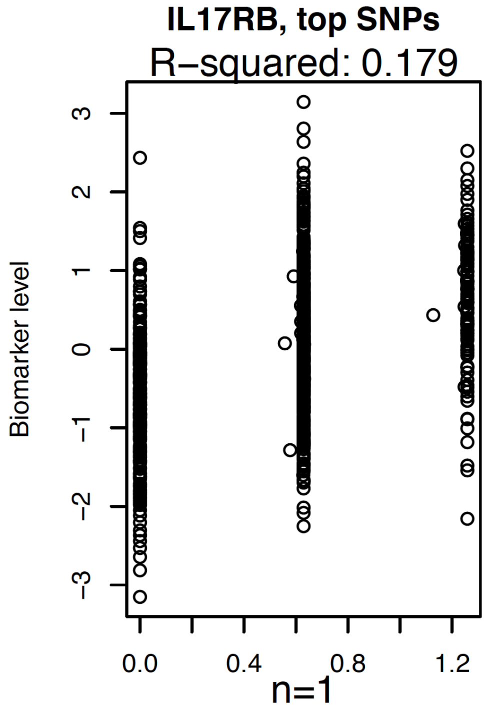
R−squared: 0.055


IL−12, top SNPs

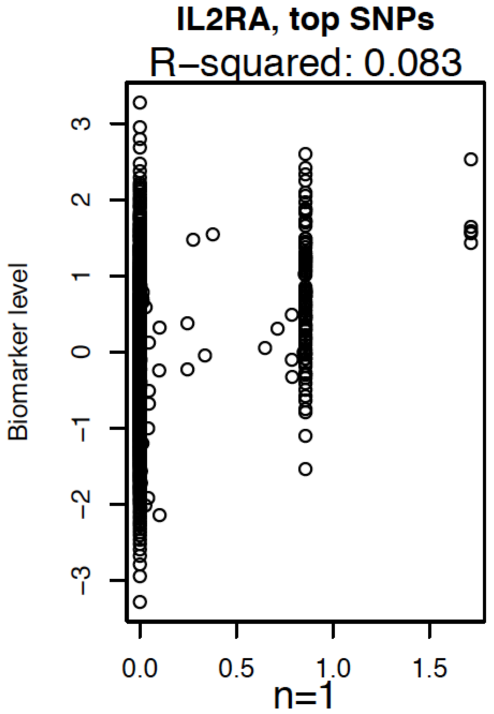
R−squared: 0.095


IL6RA, top SNPs

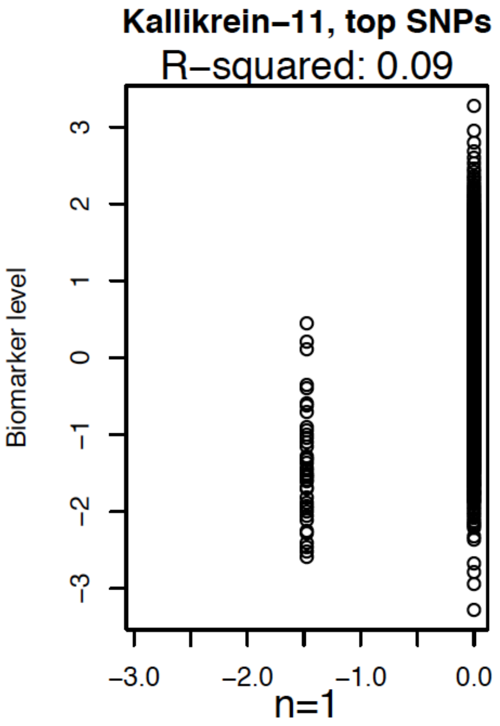
R−squared: 0.428

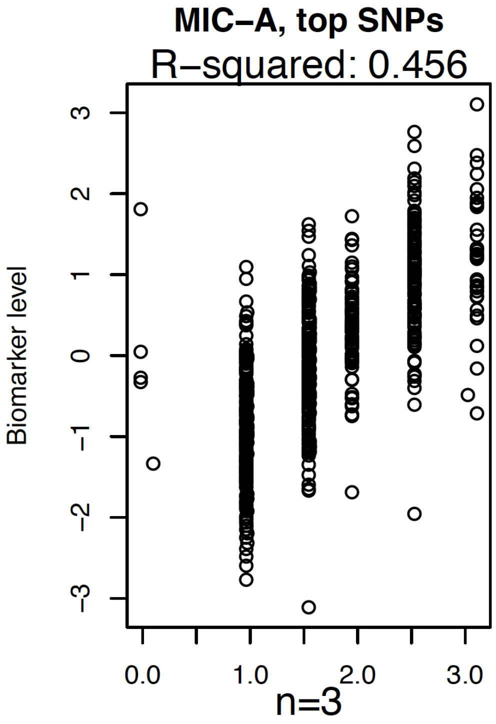

IL17RB, top SNPs

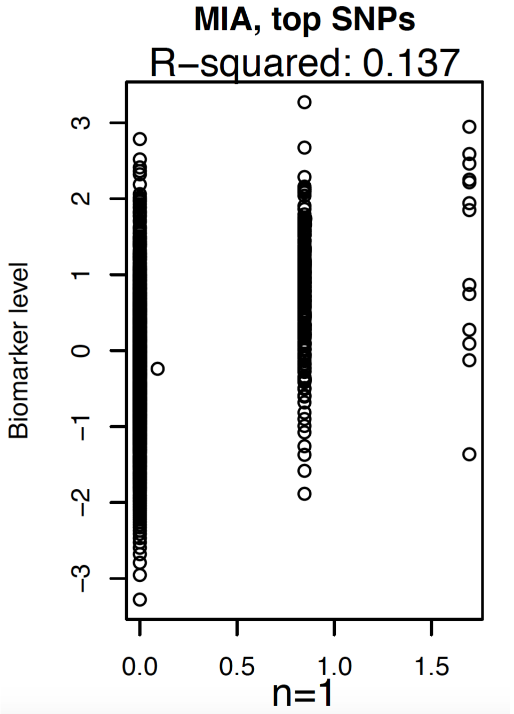
R−squared: 0.179

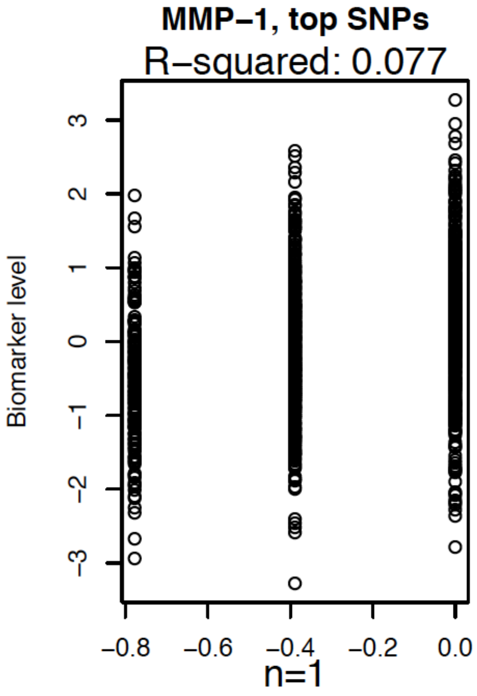

IL2RA, top SNPs

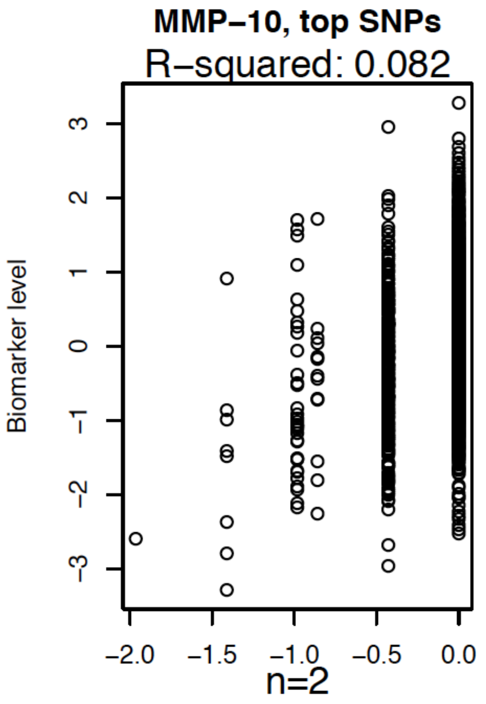
R−squared: 0.083

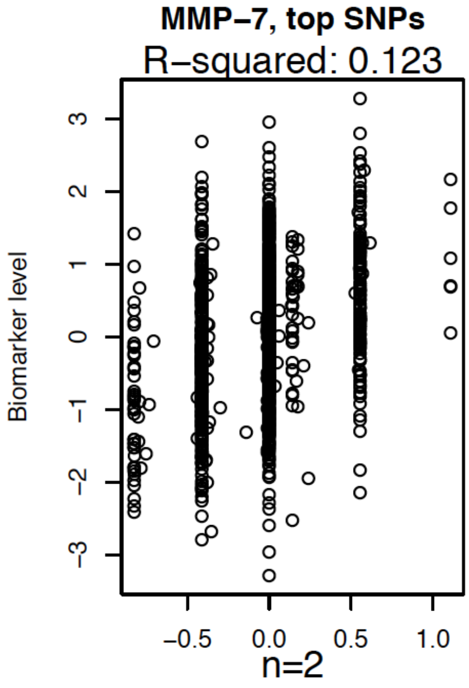

Kallikrein−11, top SNPs
R−squared: 0.09
Biomarker level
3
2
1
0
−1
−2
−3
−3.0
−2.0
−1.0
0.0
n=1

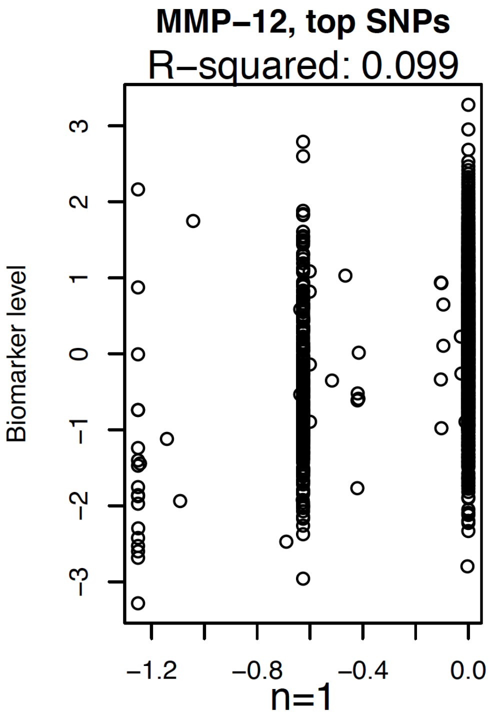

MIC−A, top SNPs
R−squared: 0.456
Biomarker level
3
2
1
0
−1
−2
−3
0.0
1.0
2.0
3.0
n=3

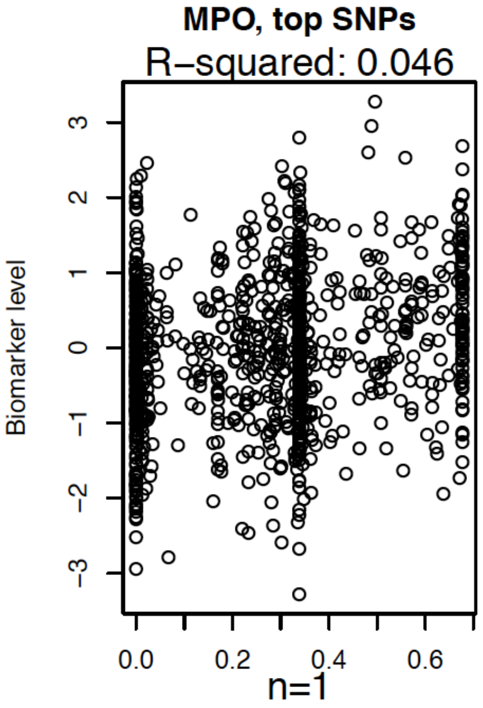

MIA, top SNPs
R−squared: 0.137
Biomarker level
3
2
1
0
−1
−2
−3
0.0
0.5
1.0
1.5
n=1

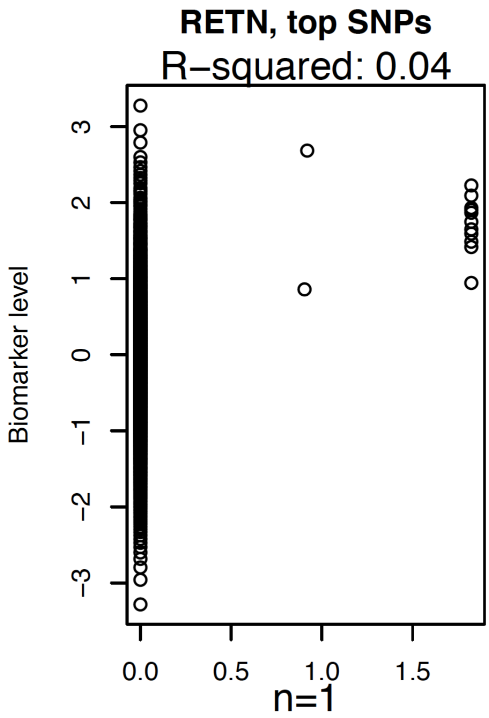

MMP−1, top SNPs
R−squared: 0.077
Biomarker level
3
2
1
0
−1
−2
−3
−0.8
−0.6
−0.4
−0.2
0.0
n=1


MMP−10, top SNPs
R−squared: 0.082
Biomarker level
−3
−2
−1
0
1
2
3
−2.0
−1.5
−1.0
−0.5
0.0
n=2

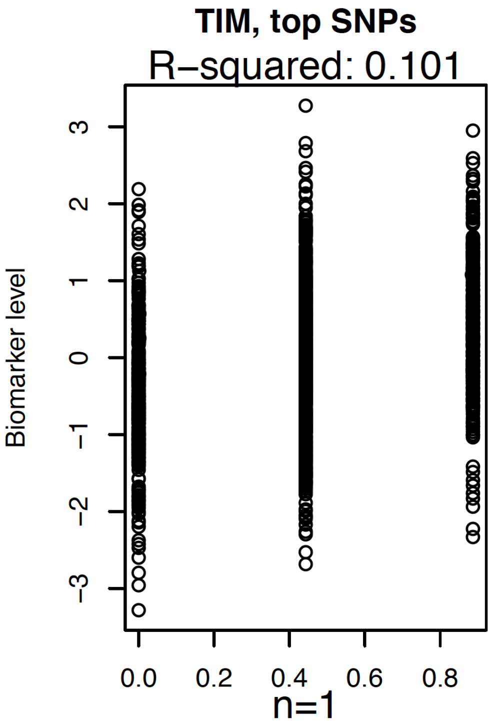

MMP−7, top SNPs
R−squared: 0.123
Biomarker level
−3
−2
−1
0
1
2
3
−0.5
0.0
0.5
1.0
n=2


MMP−12, top SNPs
R−squared: 0.099
Biomarker level
−3
−2
−1
0
1
2
3
−1.2
−0.8
−0.4
0.0
n=1

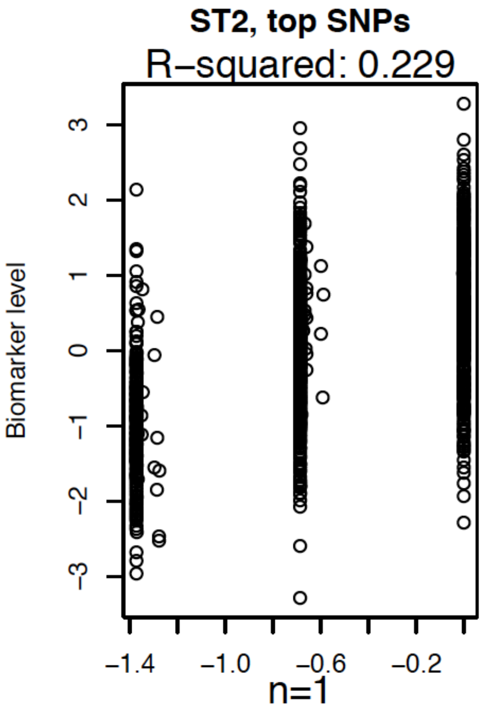

MPO, top SNPs
R−squared: 0.046
Biomarker level
−3
−2
−1
0
1
2
3
0.0
0.2
0.4
0.6
n=1


RETN, top SNPs

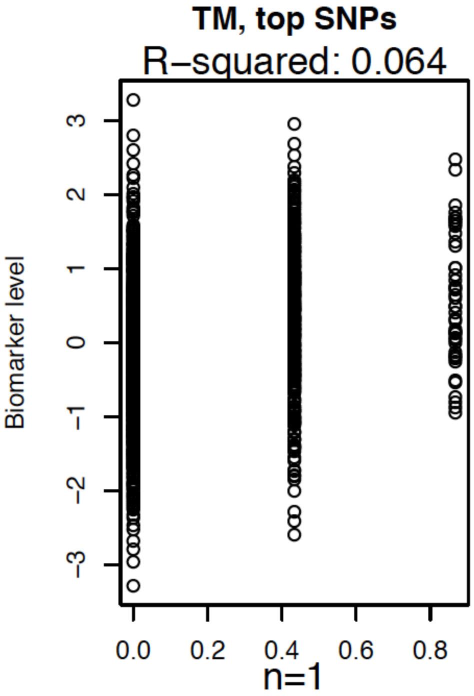
R–squared: 0.04


TIM, top SNPs

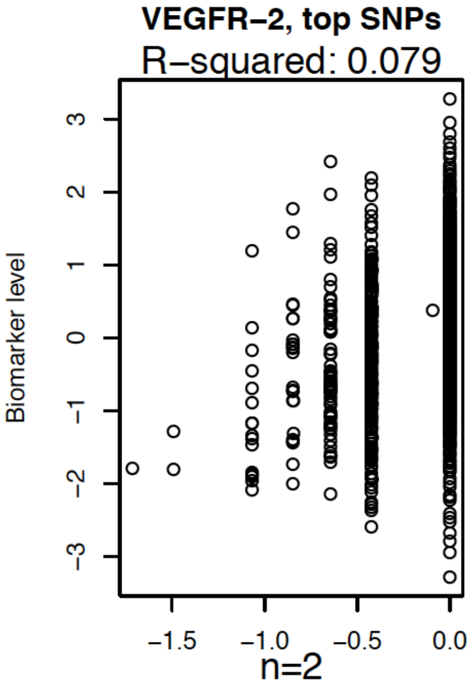
R–squared: 0.101


ST2, top SNPs

R–squared: 0.229


TM, top SNPs

R–squared: 0.064


VEGFR−2, top SNPs
R−squared: 0.079
Biomarker level
3
2
1
0
−1
−2
−3
−1.5
−1.0
−0.5
0.0
n=2