

(A)

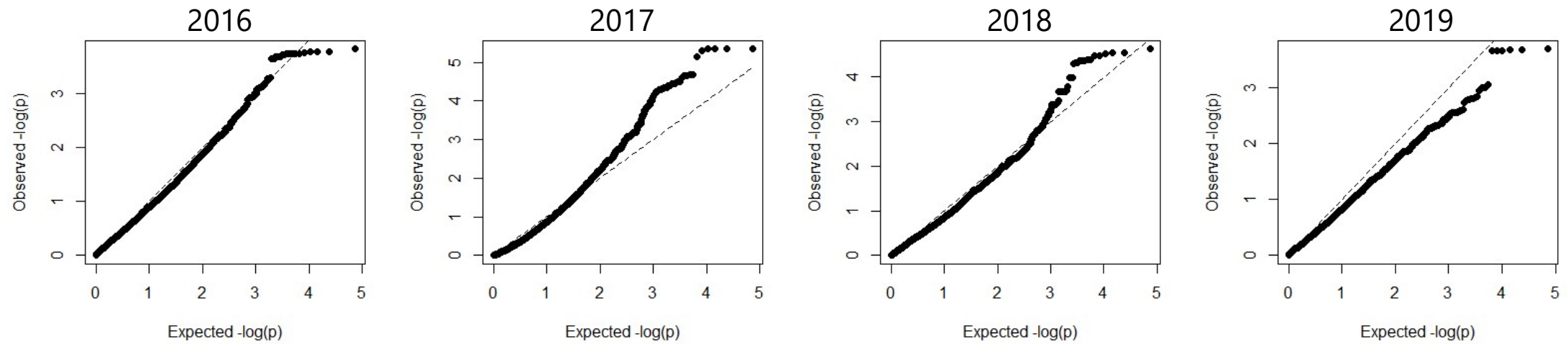


(B)

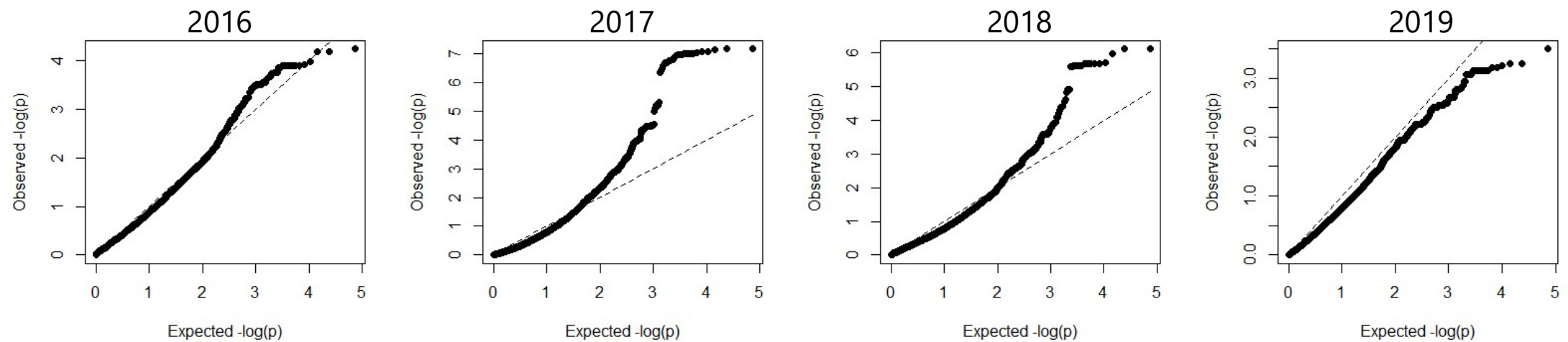


**Figure S1.** Fruits of scab susceptible and resistant Japanese apricot accessions of 'Nanko' (A) and 'Seishu' (B), respectively. Severe symptoms of scab are observed on the fruit surface of 'Nanko'.

(A) Ratio of diseased fruits (Rt; %)

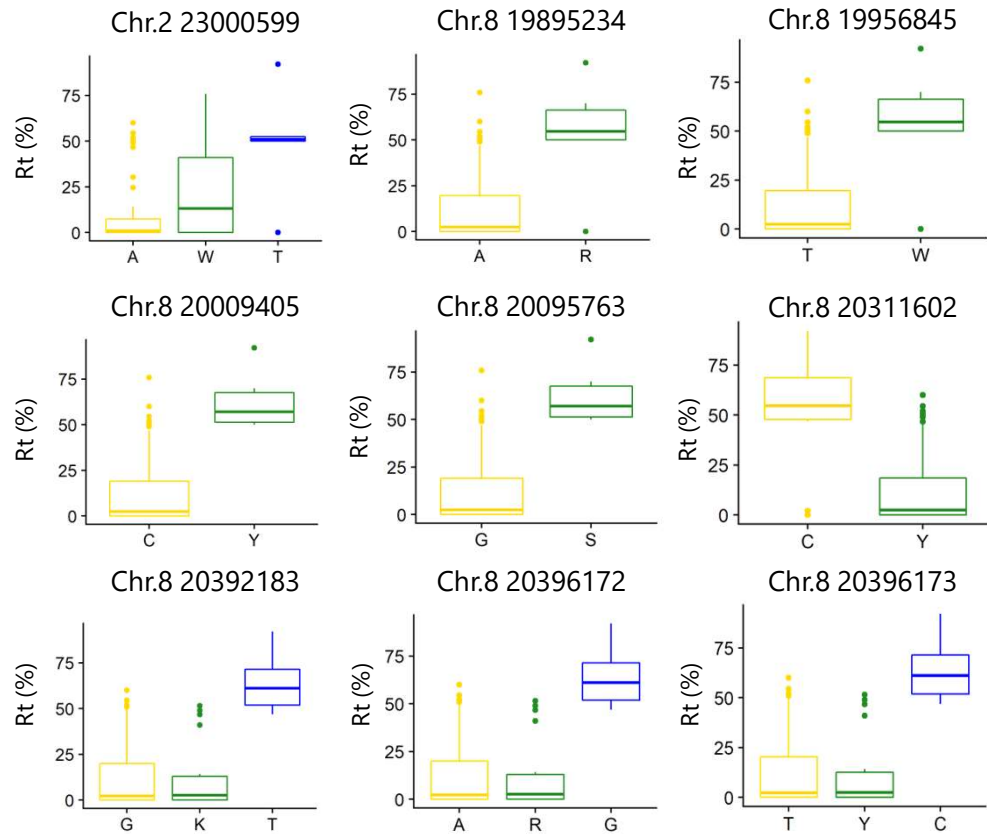


(B) Disease severity index (Sv)

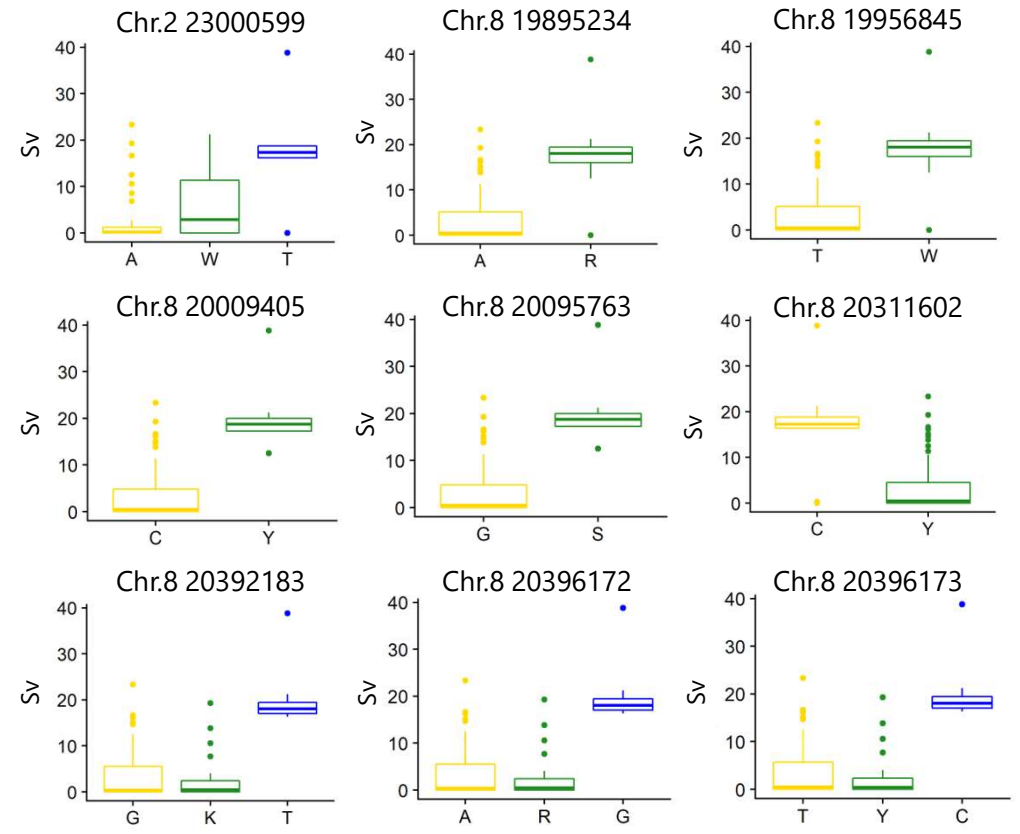


**Figure S2.** Quantile-Quantile (Q-Q) plots for GWAS analyses of scab resistance traits.

**(A) Ratio of diseased fruits (Rt; %)**



**(B) Disease severity index (Sv)**

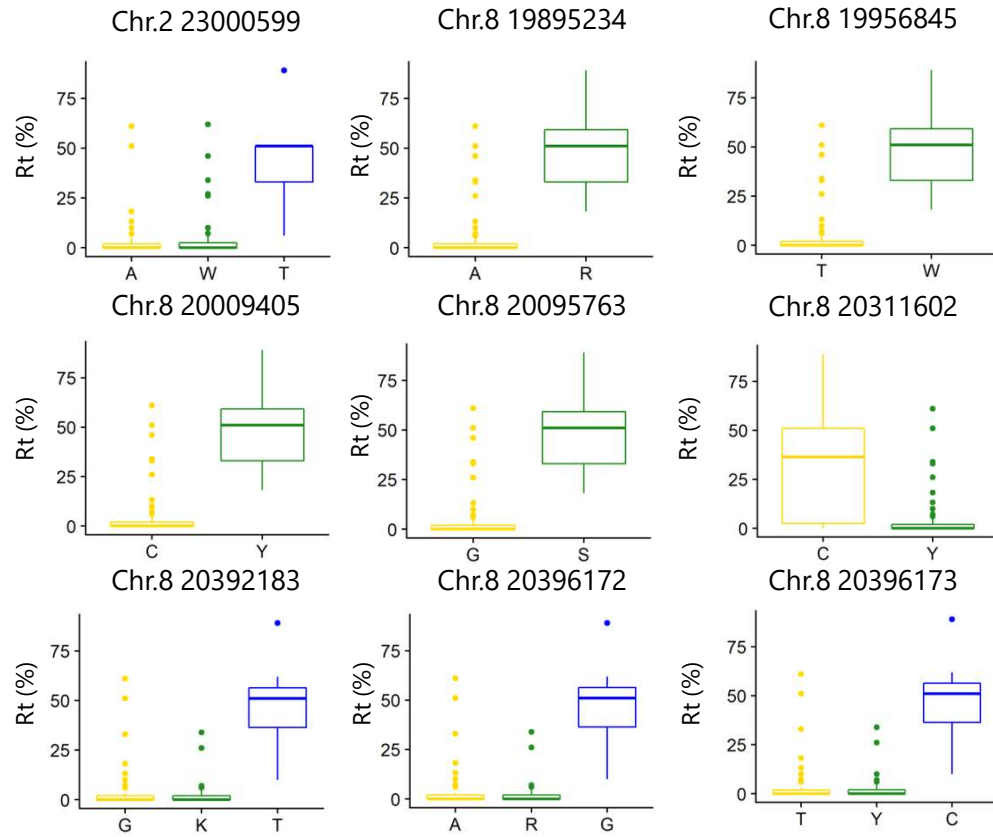


**Figure S3.** Box plots of trait values in 2016 for genotypes at 9 SNPs detected multiple years in GWAS. (A) Ratio of diseased fruits (Rt; %). (B) Disease severity index (Sv).

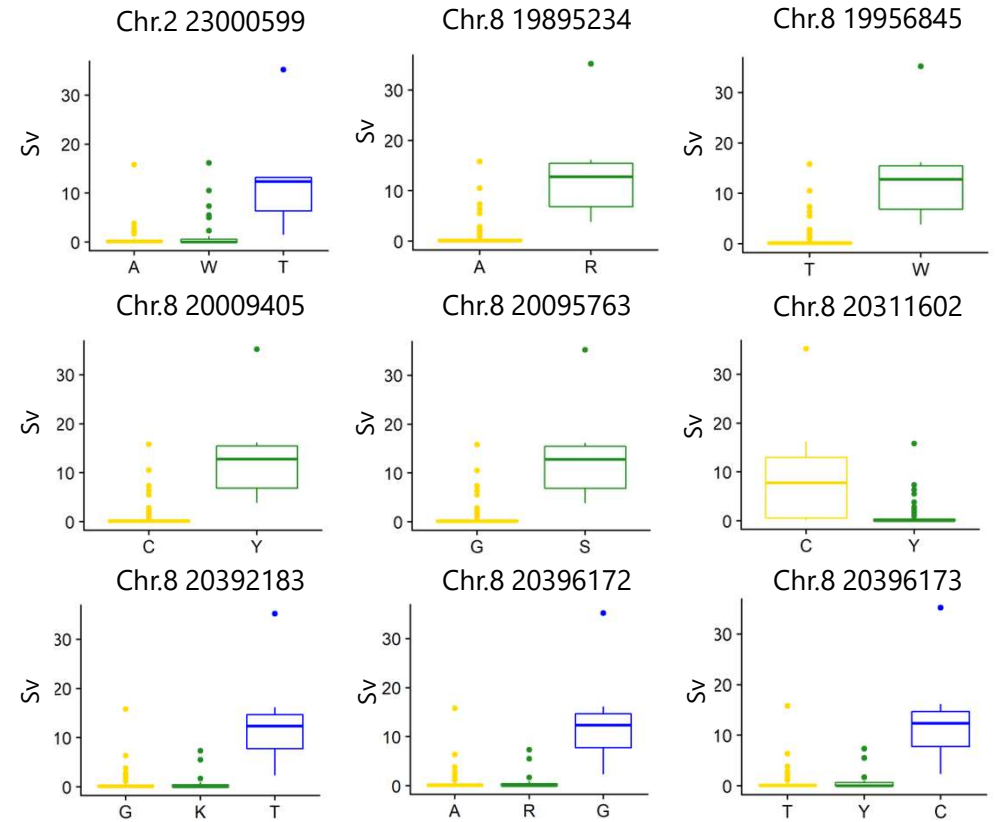
Genotypes: A, T, C and G: Homozygote for each base.

K, R, S, W and Y: Heterozygote of A/T, A/G, C/G, A/T and C/T, respectively.

**(A) Ratio of diseased fruits (Rt; %)**



**(B) Disease severity index (Sv)**

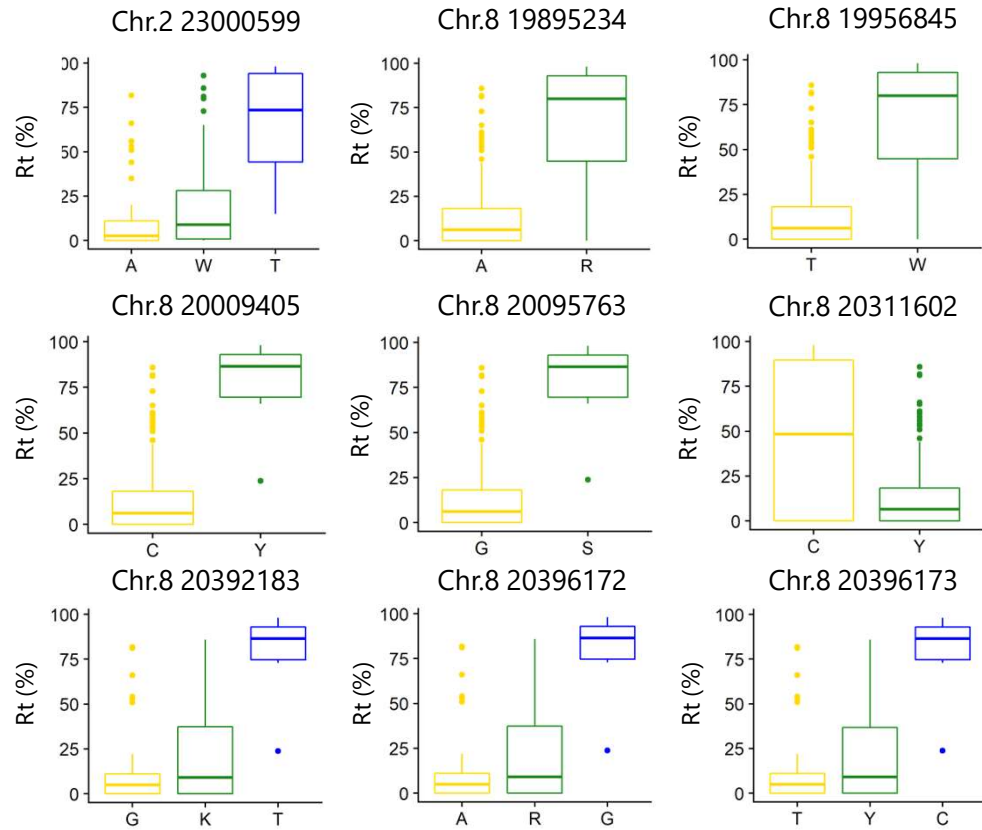


**Figure S4.** Box plots of trait values in 2017 for genotypes at 9 SNPs detected multiple years in GWAS. (A) Ratio of diseased fruits (Rt; %). (B) Disease severity index (Sv).

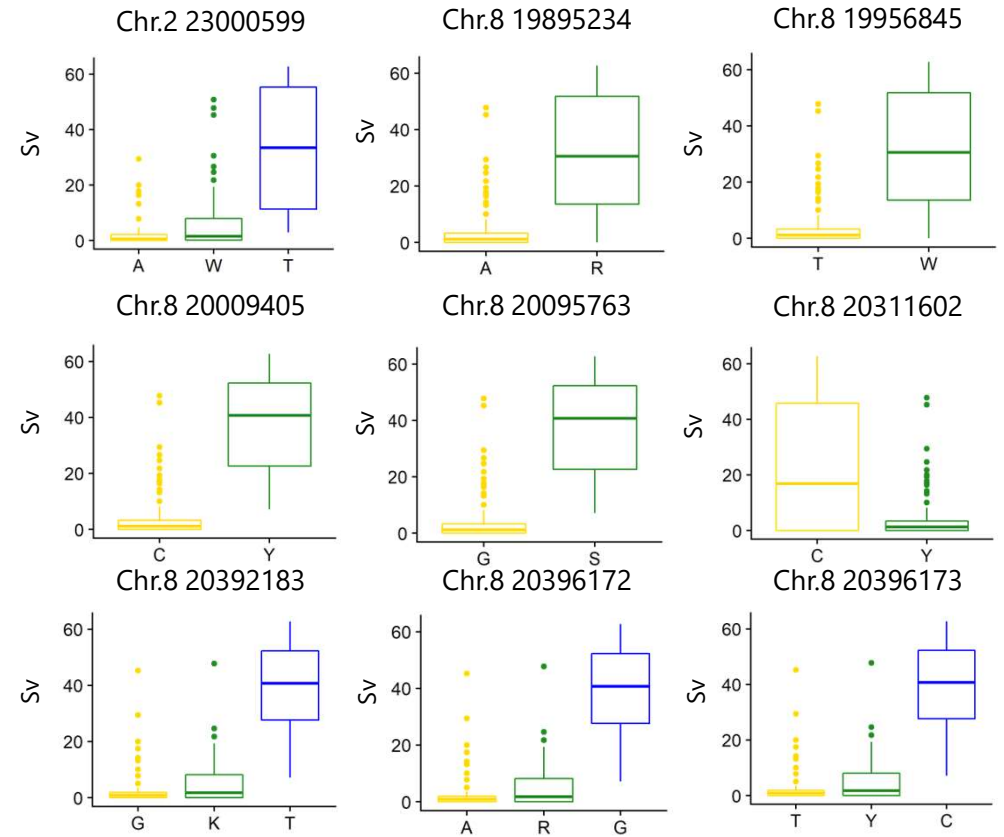
Genotypes: A, T, C and G: Homozygote for each base.

K, R, S, W and Y: Heterozygote of A/T, A/G, C/G, A/T and C/T, respectively.

**(A) Ratio of diseased fruits (Rt; %)**



**(B) Disease severity index (Sv)**

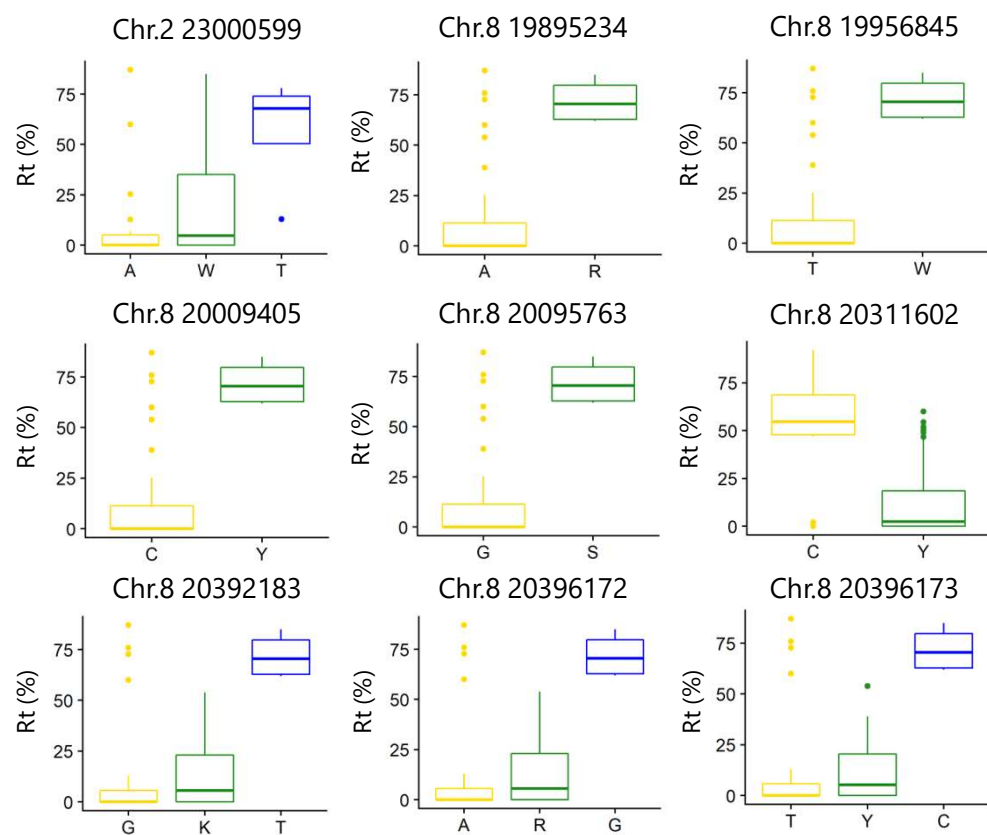


**Figure S5.** Box plots of trait values in 2018 for genotypes at 9 SNPs detected multiple years in GWAS. (A) Ratio of diseased fruits (Rt; %). (B) Disease severity index (Sv).

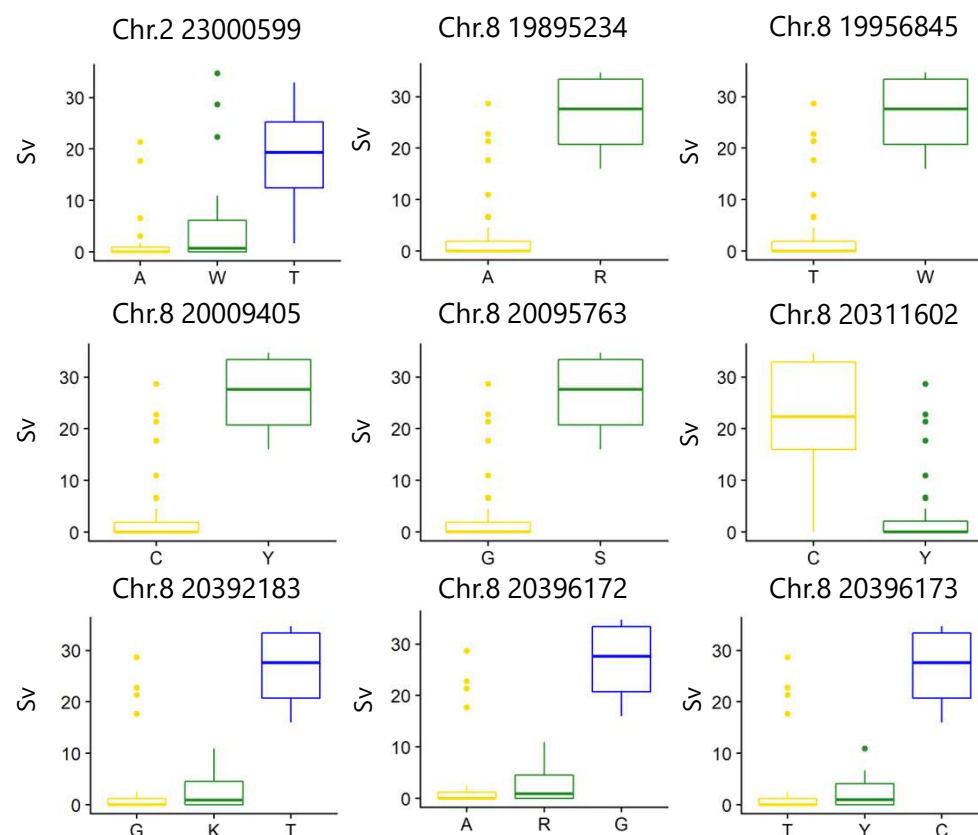
Genotypes: A, T, C and G: Homozygote for each base.

K, R, S, W and Y: Heterozygote of A/T, A/G, C/G, A/T and C/T, respectively.

**(A) Ratio of diseased fruits (Rt; %)**



**(B) Disease severity index (Sv)**



**Figure S6.** Box plots of trait values in 2019 for genotypes at 9 SNPs detected multiple years in GWAS. (A) Ratio of diseased fruits (Rt; %). (B) Disease severity index (Sv).

Genotypes: A, T, C and G: Homozygote for each base.

K, R, S, W and Y: Heterozygote of A/T, A/G, C/G, A/T and C/T, respectively.