



**Supplementary Figure 13.** Boxplots of the associations between haplotypes at *qMCR8.1* (LG8) and *qMCR2.1* loci (LG2) with titratable acidity (TA, in g L<sup>-1</sup> of malic acid). Haplotypes at *qMCR8.1* were defined by the fine-mapped interval between markers SNP46688 and SNP47104 in ‘Lito’ × ‘BO81604311’ (haplotype A and B, respectively) (left) while haplotypes at *qMCR2.1* were delimited by markers Pp02:22857329\_T/G and Pp02:26399548\_T/A in ‘Goldrich’ × ‘Moniqui’ (haplotype A and B, respectively) (right). Letters and asterisks indicate significant differences between classes ( $p < 0.01$ ) as inferred by one-way ANOVA and SNK test for multiple comparisons. Haplotypes intervals and markers are shown in Supplementary File 1.