



Figure S1. Genome-wide association for concentration ($n=105$). **(a)** Manhattan plot (blue line representing the suggestive significance threshold ($p < 10^{-5}$) and red line) the Bonferroni-corrected significance threshold ($p < 4.56 \times 10^{-7}$). The inset on the right hand corner shows the quantile-quantile (Q-Q) plot with the observed p -value plotted against the expected one. **(b)** Boxplot representing the genotype effect of the best associated SNP on ECA12.