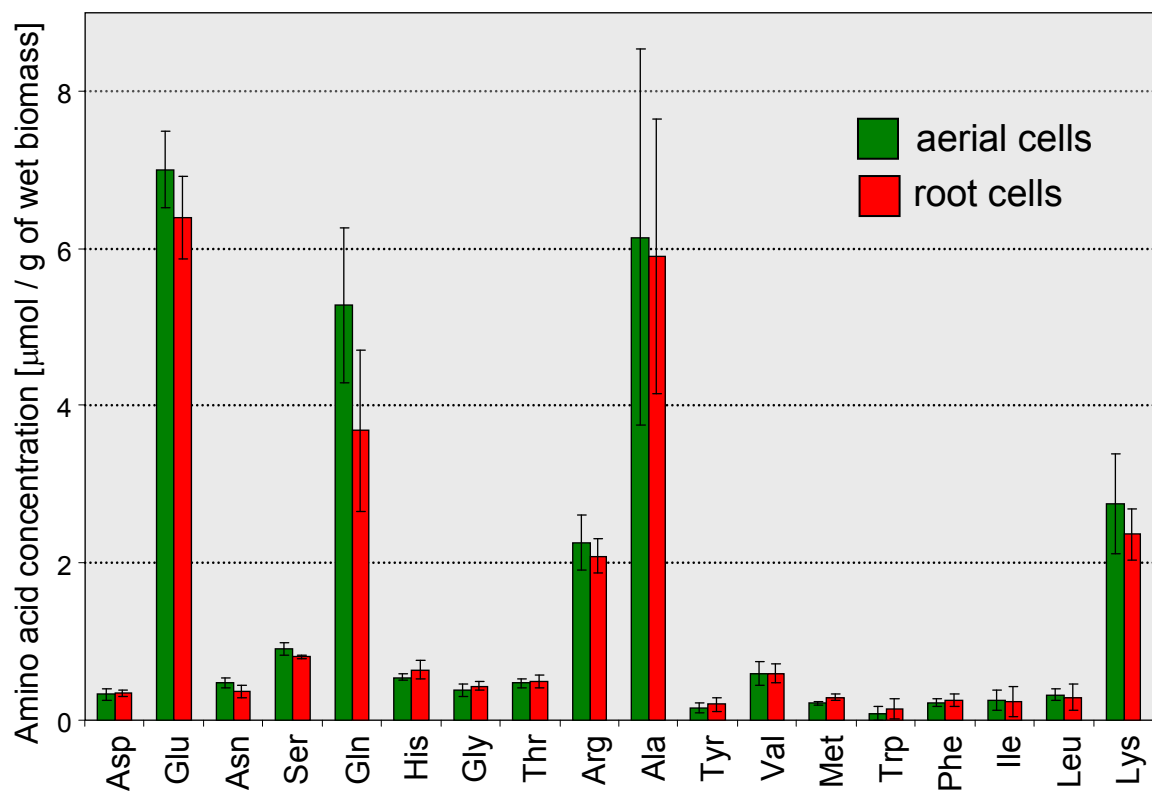


**Figure S1: Position clustering of differently expressed genes on chromosomes.** For individual chromosomes expression ratios (root/aerial) was plotted against the loci IDs and the moving log average (of 10 loci) was added to the plot as a trend line.



**Figure S2: Intracellular amino acids in aerial and root cells.** Concentrations of intracellular amino acid were compared in aerial (green) and root (red) cells by HPLC. Average values are shown of 8 independent biological replicates  $\pm$  S.D.