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(b) (a) Alanine Alanine Asparagin Asparagine Aspartate Aspartate Betaine Betaine Citruline Citruline Glutamine Glutamine Glutathione Glutathione Histidine Histidine Homoserine Homoserine Isoeucine Isoeucine Kynurenine Kynurenine L-Aminoadipate L-Aminoadipate Leucine Leucine Methionine Methionine Phenylalanine Phenylalanine Proline Proline SAH SAH Sarcosine Sarcosine Serine Serine Threonine Threonine Tryptophan Tryptophan Tyrosine Tyrosine Valine Valine Color Ker CR.CS.1DPI CR.CS.7DPI CR.CS.4DPI CR.CS.7DPI CR.CS.4DPI CR.CS.1DPI -0.5 0 0.5 1 Row Z-Score

Fig. S4 Amino acid-related metabolite accumulation at three different time points in uninoculated and pathogen inoculated root tissues of clubroot resistant (CR)and susceptible (CS) genotypes. Log₂ fold change between CR and CS were calculated at all three-time points and heatmaps were developed. Dark blue indicates higher accumulation and light green indicates low accumulation of metabolites in CR as compared to CS genotype. (a) Uninoculated group. (b) Inoculated group.