



**Figure 4.** Metabolite profiling of two treatments. (A) Principle component analysis (PCA) of metabolome data derived from two treatments during three developmental stages under waterlogging stress (14, 21, 28d, with three biological replicates per point). (B) The differentially changed metabolites (DAMs). (C) The Venn diagram of DAMs in C56, W45 and T2. The DAMs were screened by the criteria of  $|\log_2(\text{fold change})| > 1$  and  $p$  value  $< 0.05$ . C1, C2, and C3 represented 14, 21 and 28 days after gynophores touched the ground in the control treatment; W1, W2, and W3 represented 14, 21 and 28 days after gynophores touched the ground in the waterlogging treatment.