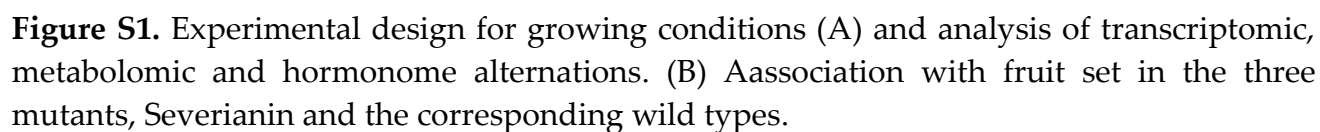


A



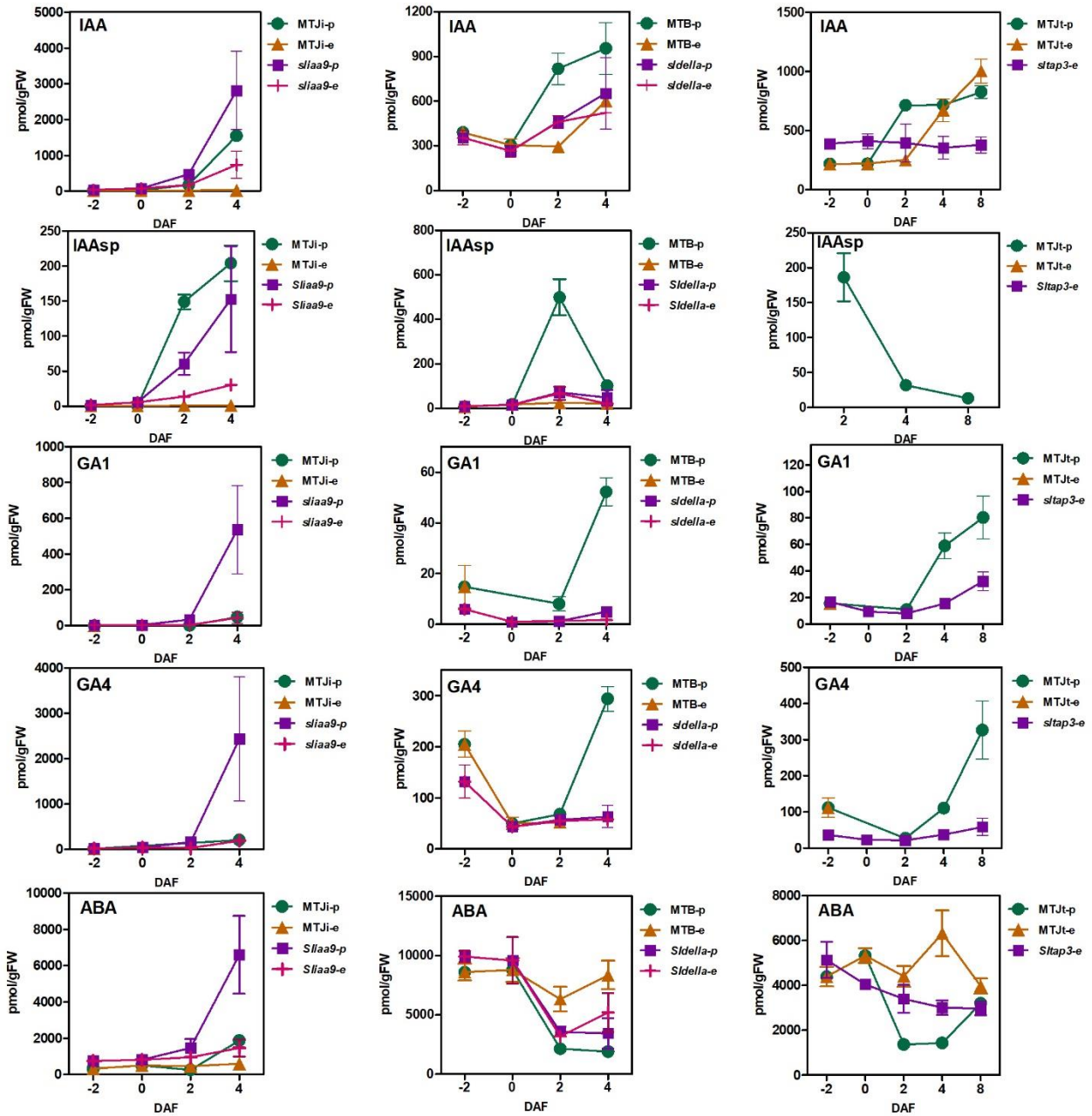


Figure S2. Accumulation patterns of the detected hormones and hormone derivatives during fruit setting in MTJ/*sliaa9*, MTB/*sldella* and MTJ/*sltap3*.

Abbreviations: IAA, indole-3-acetic acid; IAAsp, indoleacetylaspartate; GA, gibberellin; ABA, abscisic acid.

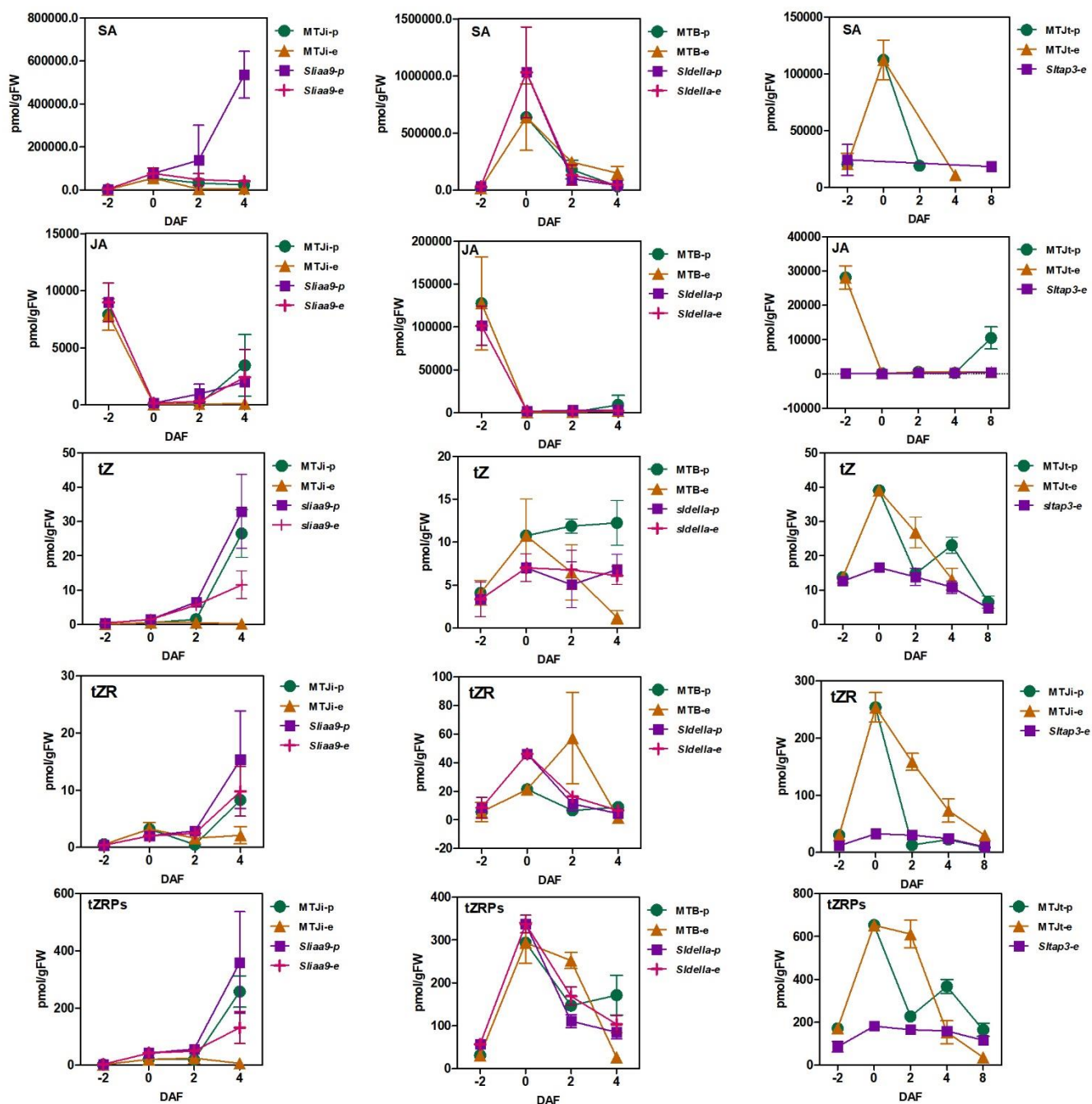


Figure S2 (continued).

Abbreviations: SA, salicyric acid; JA, jasmonic acid; tZ, *trans*-zeatin; tZR, tZ riboside; tZRPs, tZR-5'-monophosphate.

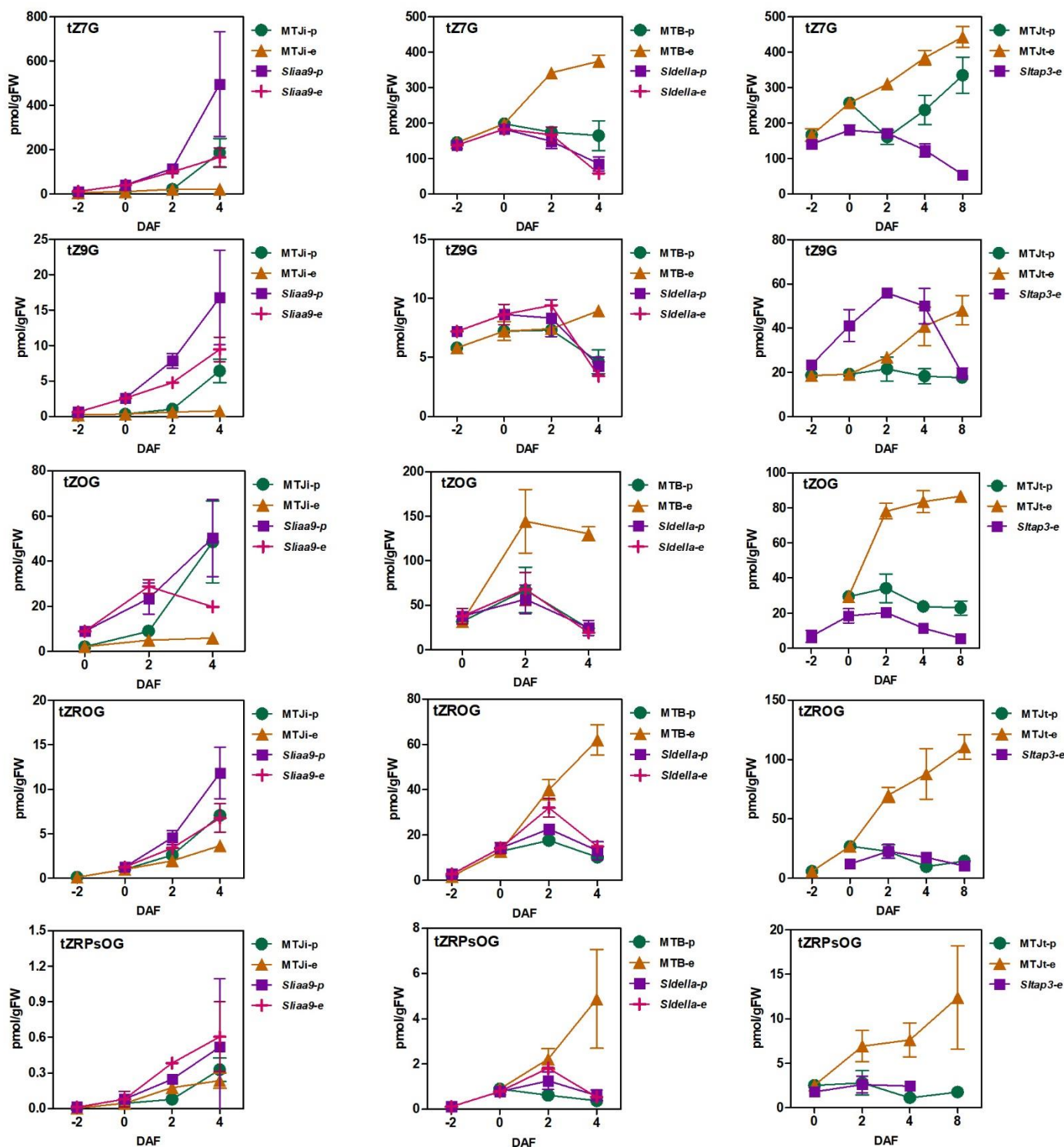


Figure S2 (continued).

Abbreviations: tZ7G, *trans*-zeatin-7-glucoside; tZ9G, *tZ*-9-glucoside; tZOG, *tZ*-O-glucoside; tZROG, *tZ*-riboside-O-glucoside; tZRPsOG, *tZR* 5'-phosphates-O-glucoside.

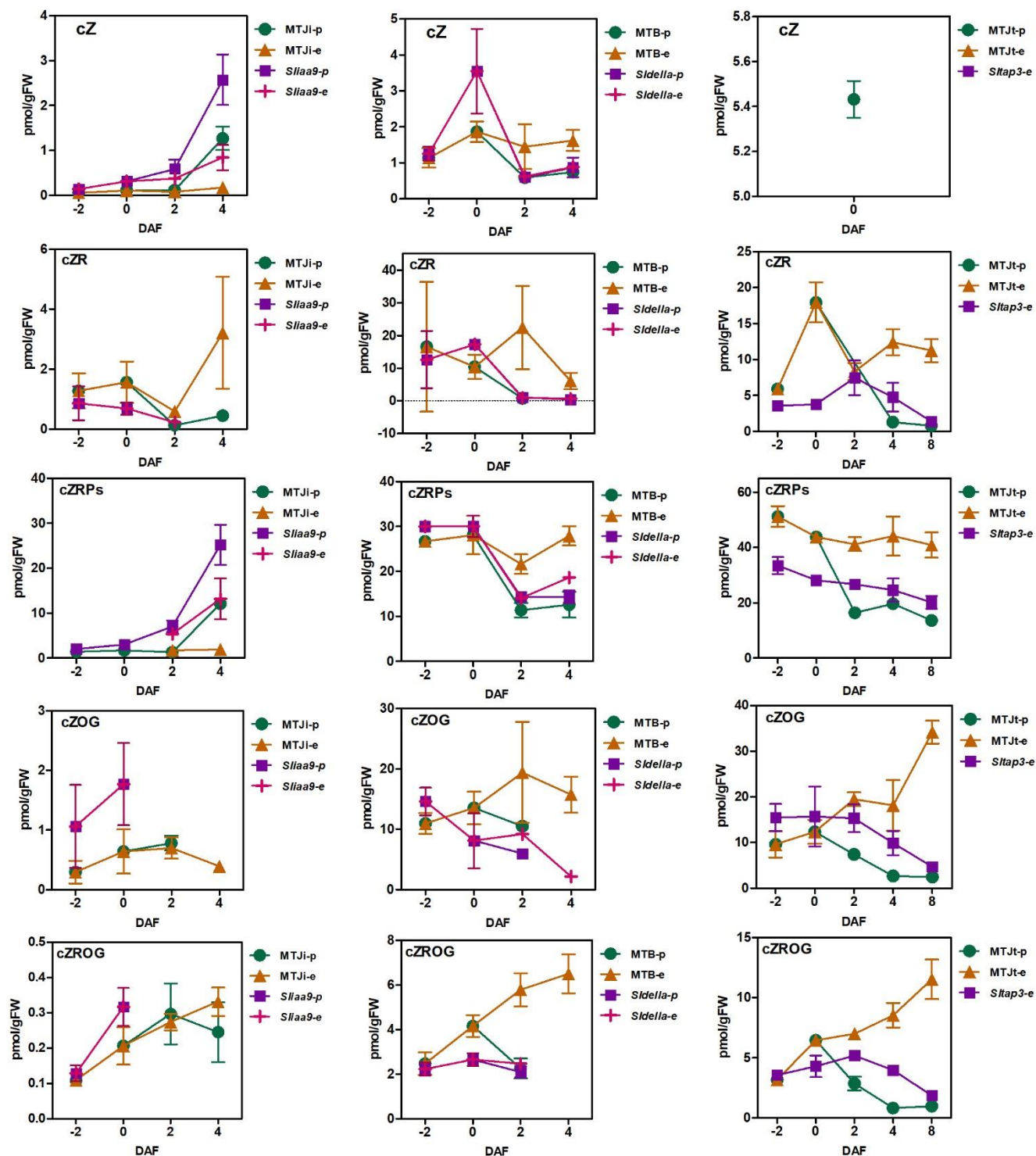


Figure S2 (continued).

Abbreviations: cZ, *cis*-zeatin; cZR, cZ riboside; cZRPs, cZR 5'-phosphates; cZOG, cZ-O-glucoside; cZROG, cZR-O-glucoside.

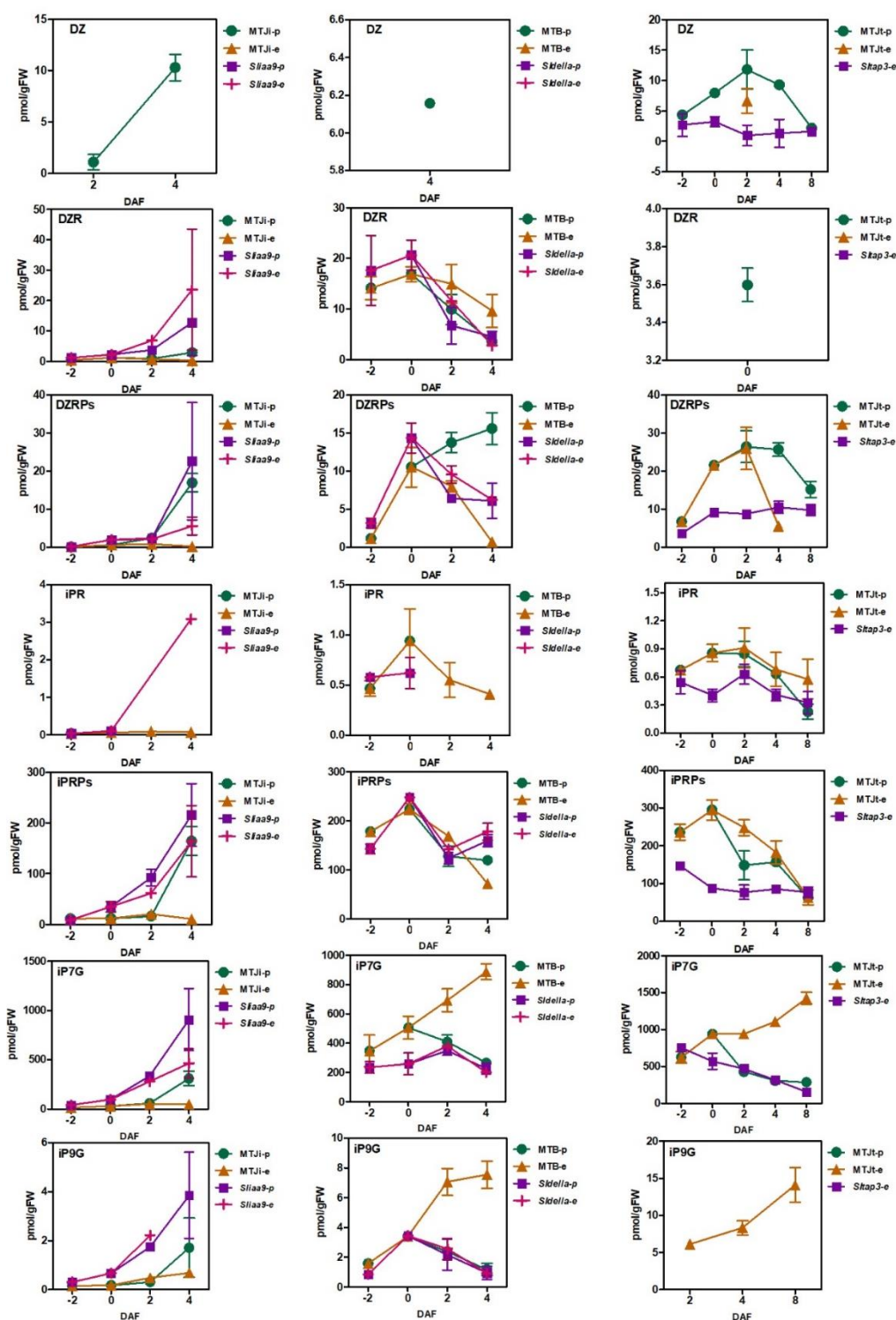


Figure S2 (continued).

Abbreviations: DZ, dihydrozeatin; DZR, DZ riboside; DZRPs, DZR 5'-monophosphate; iPR, isopentenyladenosine; iPRPs, iPR 5'-phosphates; iP7G, N6-isopentenyladenine-7-glucoside; iP9G, N6-isopentenyladenine-9-glucoside.

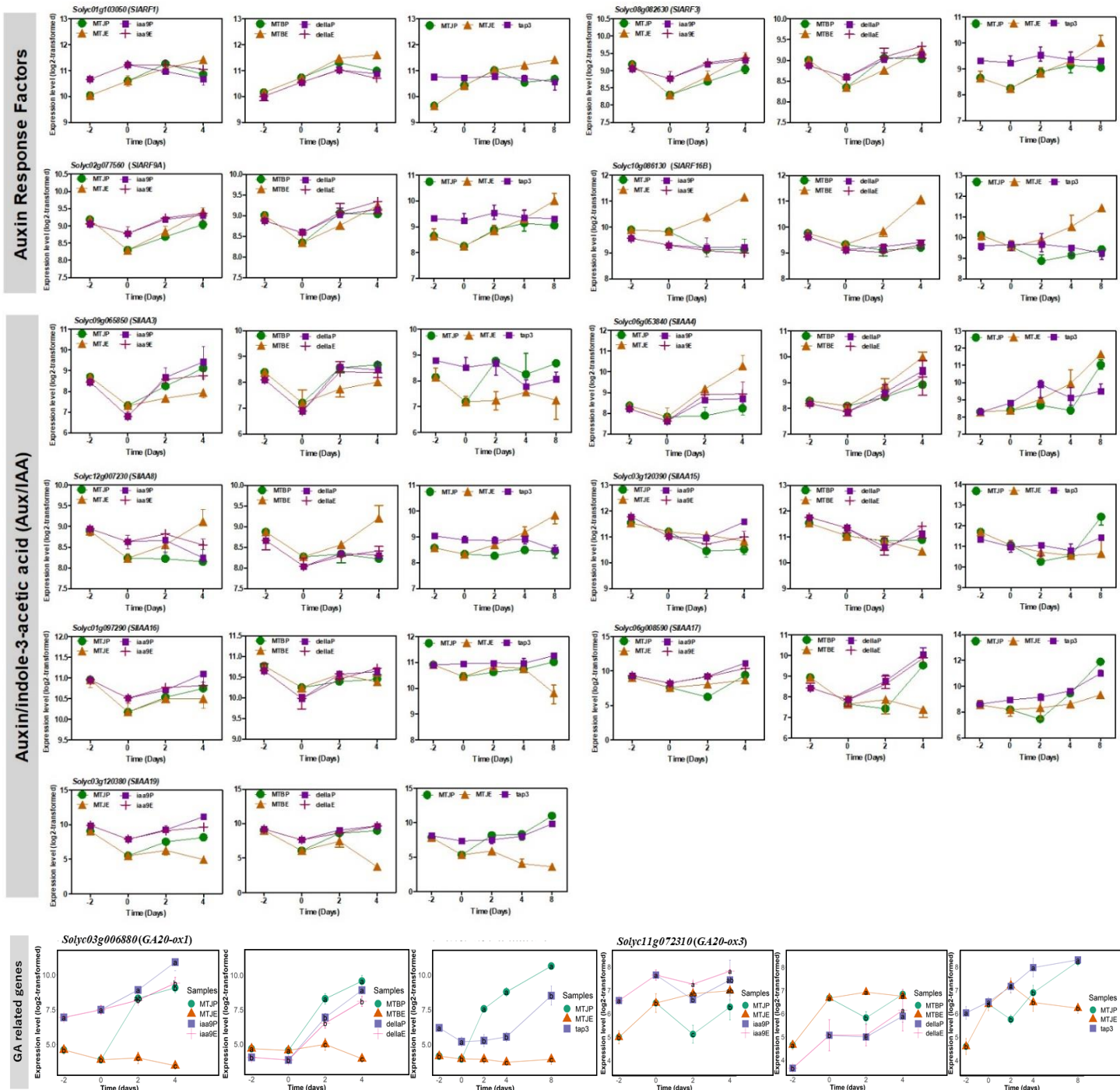


Figure S3. Alternations of auxin and GA related genes during fruit setting in MTJ/*sliaa9*, MTB/*sldella* and MTJ/*sltap3*.

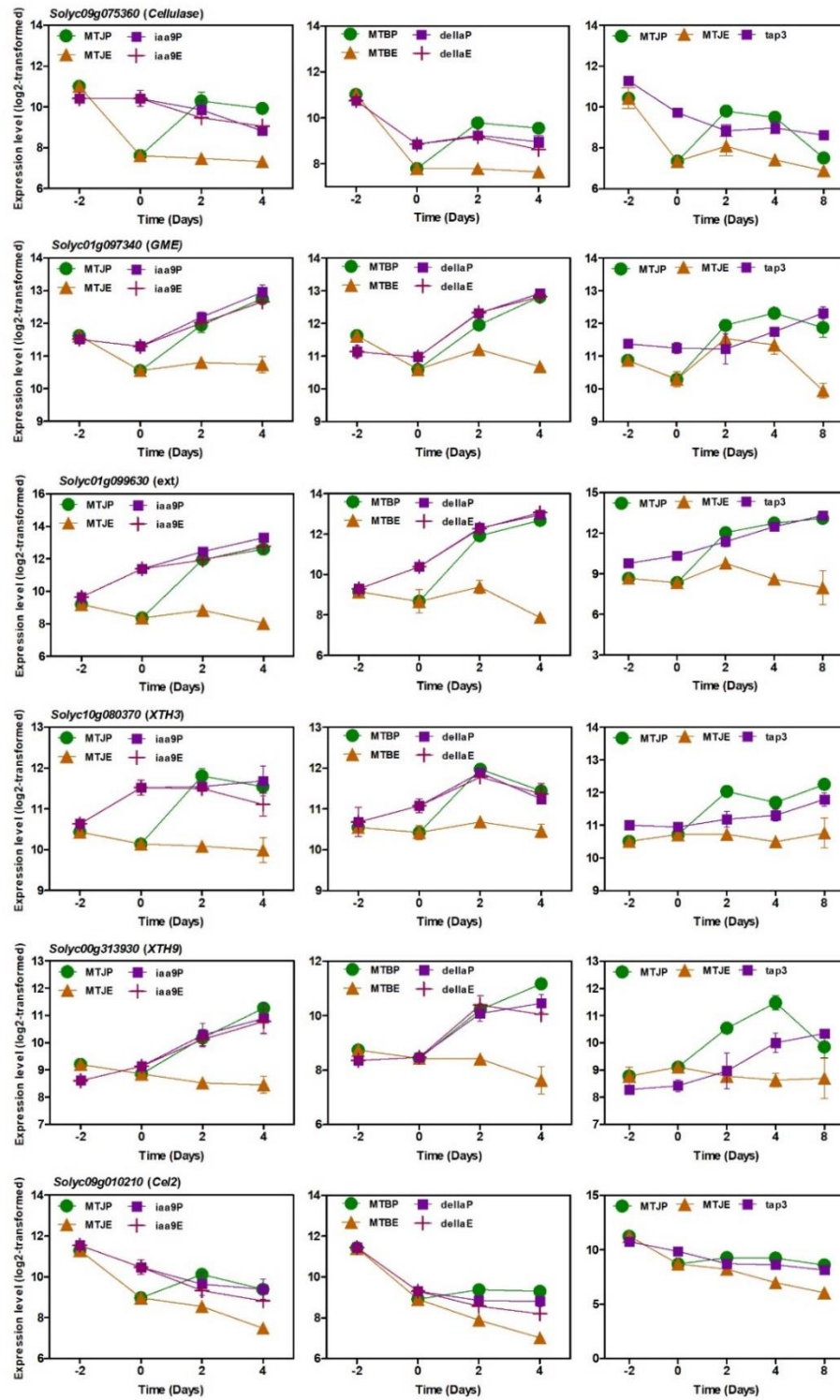


Figure S4 (continued).

Abbreviations: GME, GDP-mannose 3',5'-epimerase; ext, endo-xyloglucan transferase; XTH3, xyloglucan endotransglucosylase-hydrolase3; XTH9, xyloglucan endotransglucosylase-hydrolase9; and Cel2, endo-1,4-beta-glucanase precursor.

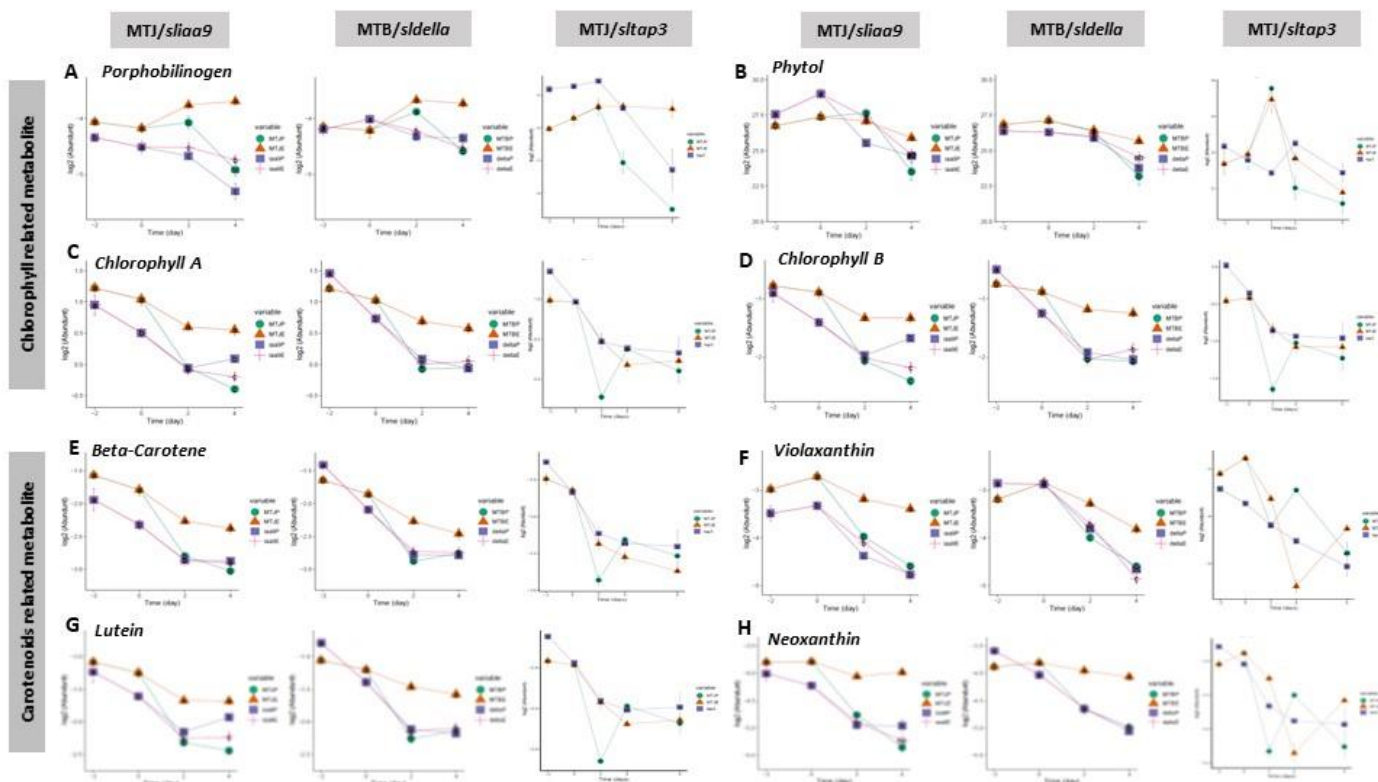


Figure S5. Changes of the photosynthesis- and carotenoid-related metabolites during fruit setting in MTJ/sltaa9, MTB/sldella and MTJ/sltap3.

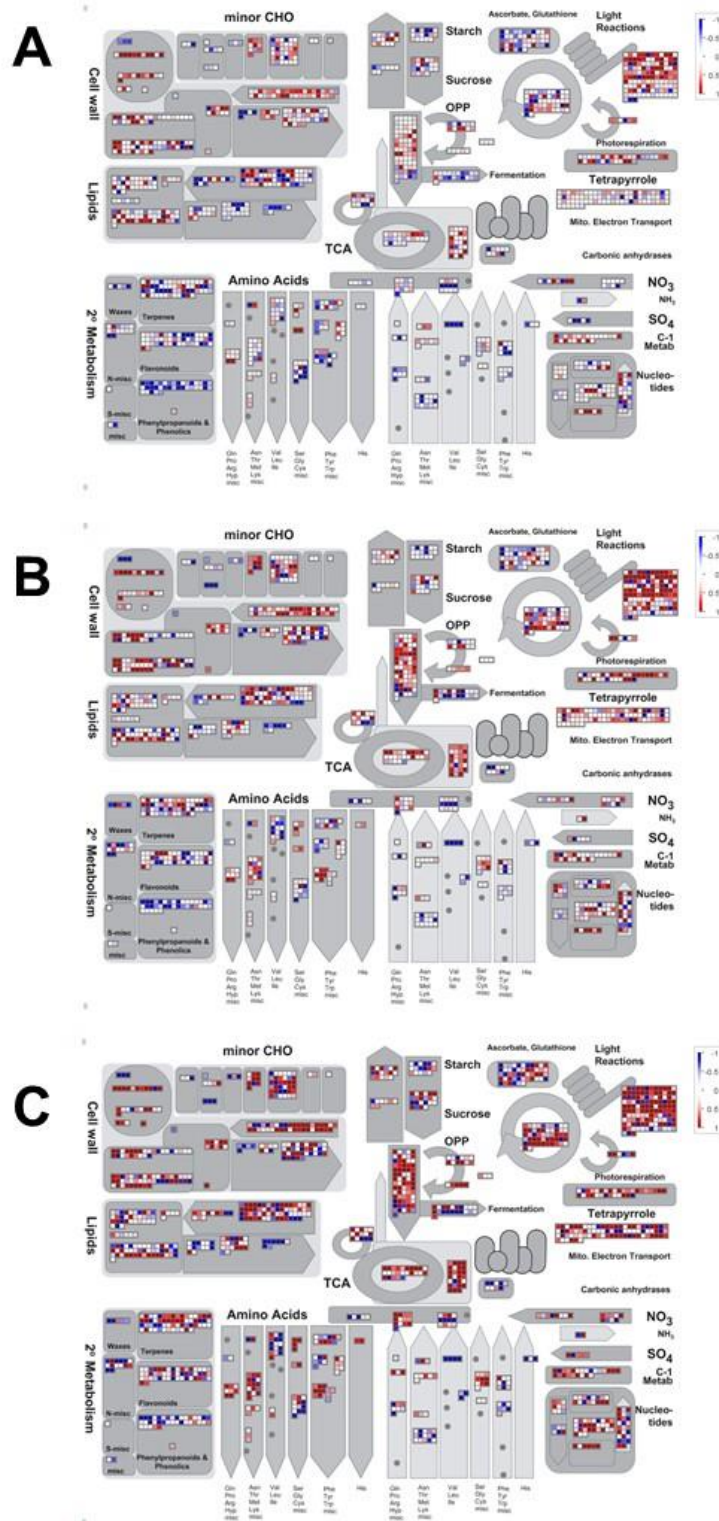


Figure S6. MapMan visualisation of DEGs in the profiles of MTJ/*sliaa9* at 0DAF (A), 2E-DAF (B) and 4E-DAF (C).

Significant, $q\text{-value} \leq 0.05$; $|\log_2\text{FC}| \geq 1$.

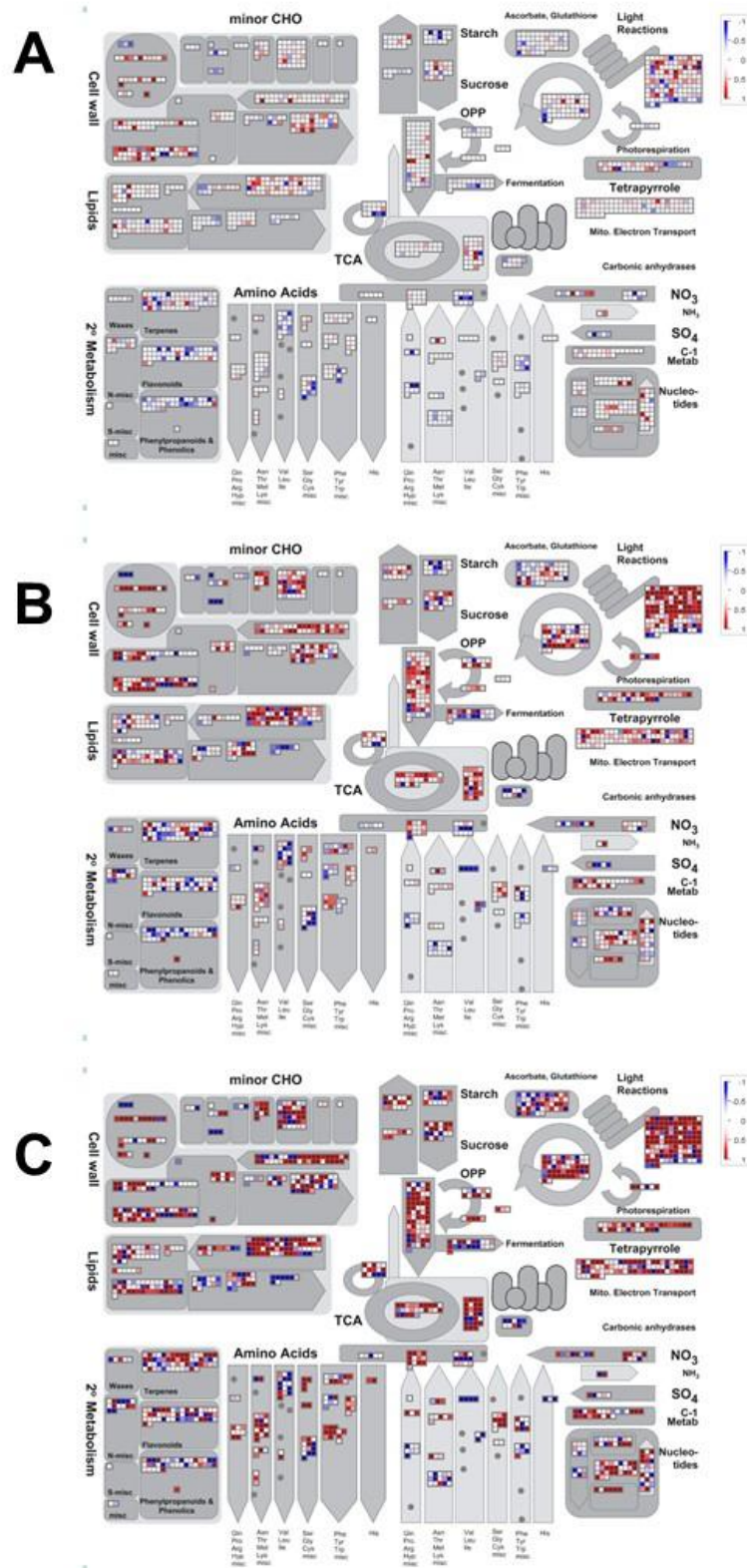


Figure S7. MapMan visualisation of DEGs in the profiles of MTJ/*sldella* at 0DAF (A), 2E-DAF (B) and 4E-DAF (C).

Significant, $q\text{-value} \leq 0.05$; $|\log_2\text{FC}| \geq 1$.

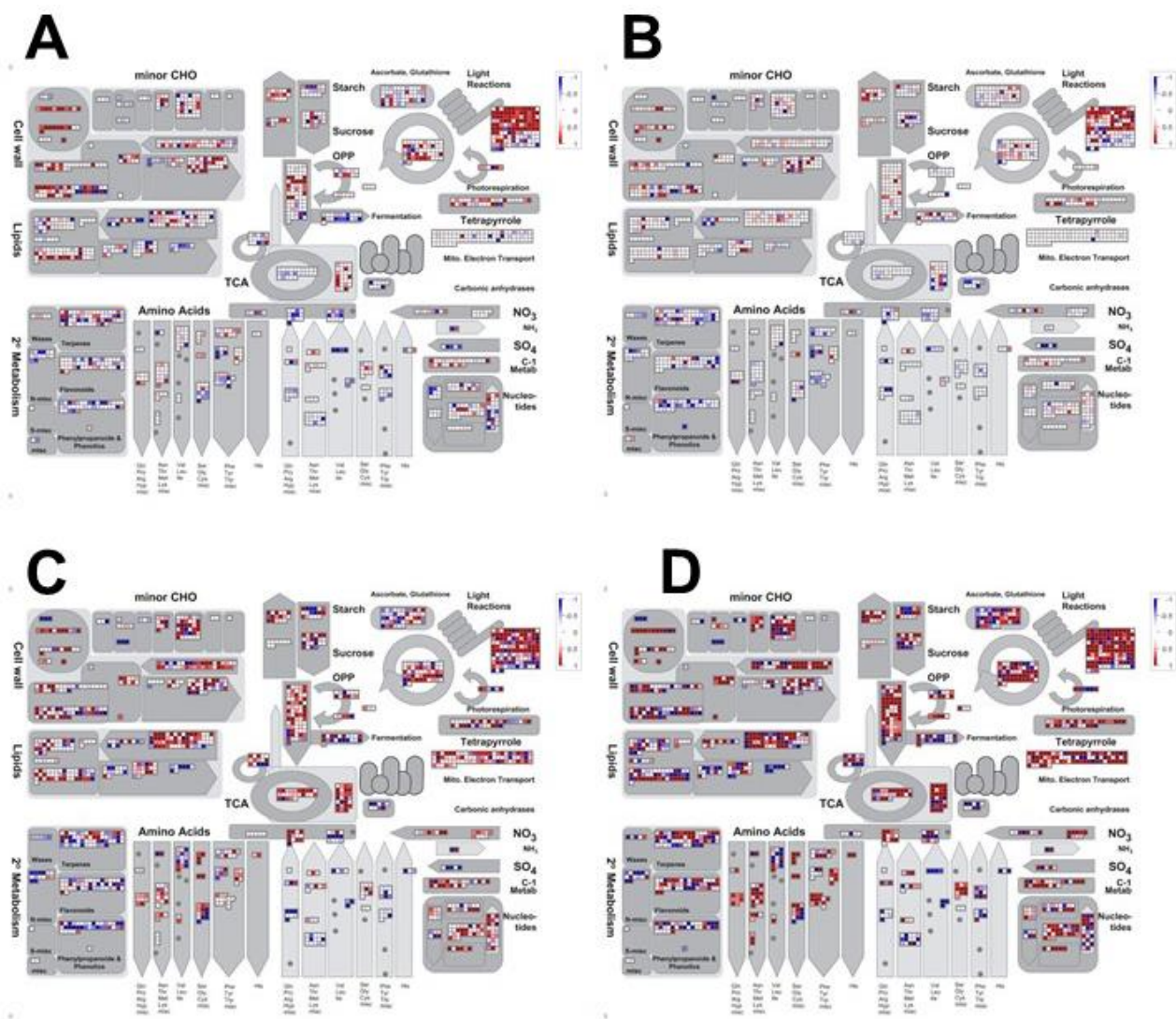


Figure S8. MapMan visualisation of DEGs in the profiles of MTJ/*sltap3* at 0DAF (A), 2E-DAF (B) and 4E-DAF (C).

Significant, $q\text{-value} \leq 0.05$; $|\log_2\text{FC}| \geq 1$.

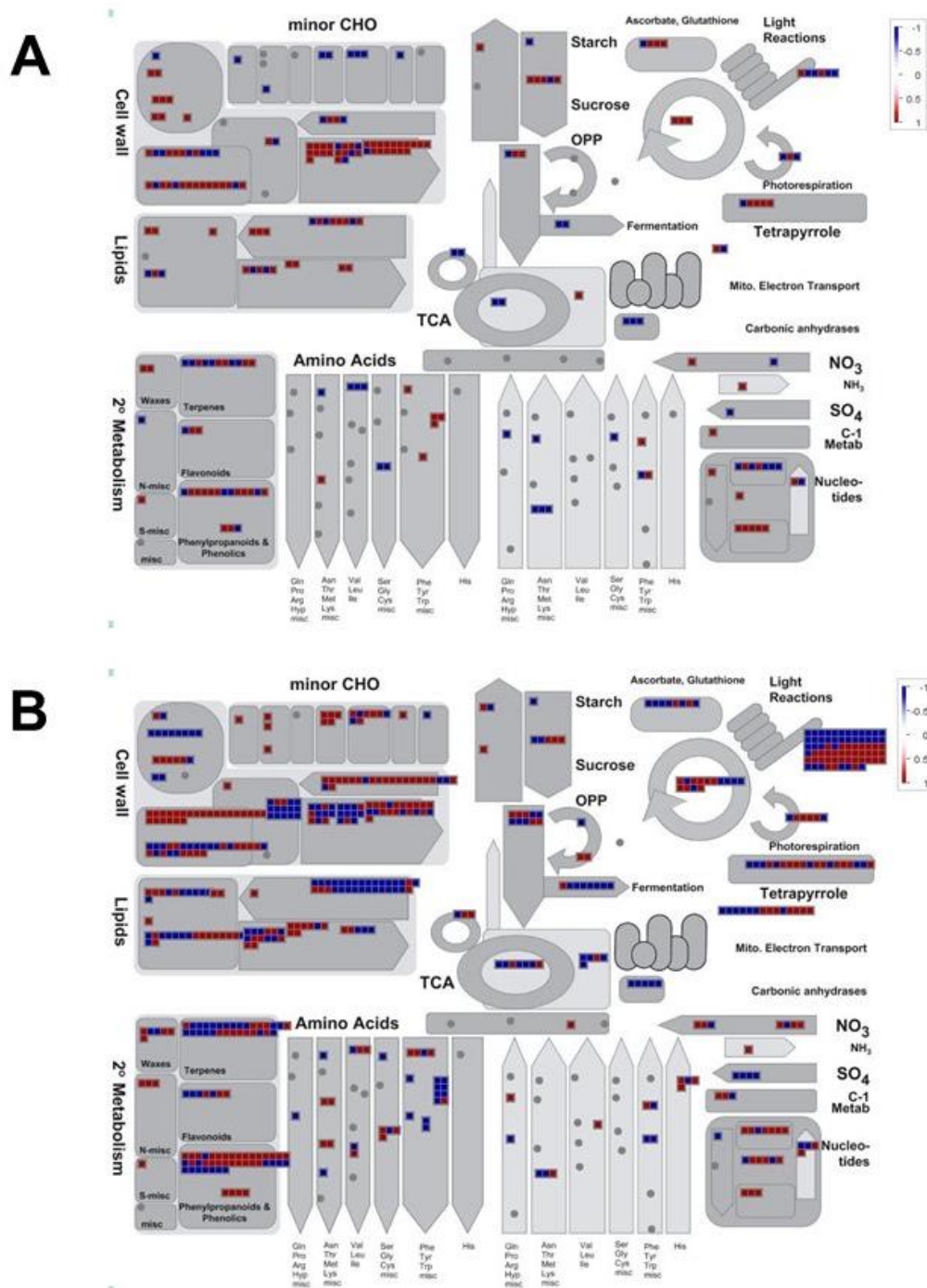


Figure S9. MapMan visualisation of DEGs in the profiles of Severianin/M82 at 0DAF (A) and 2E-DAF (B).

Significant, $q\text{-value} \leq 0.05$; $|\log_2\text{FC}| \geq 1$.