

Supplementary Figures S1: Treemaps for the enriched GO terms (biological processes) of the DEGs, separated into up- and down-regulated DEGs

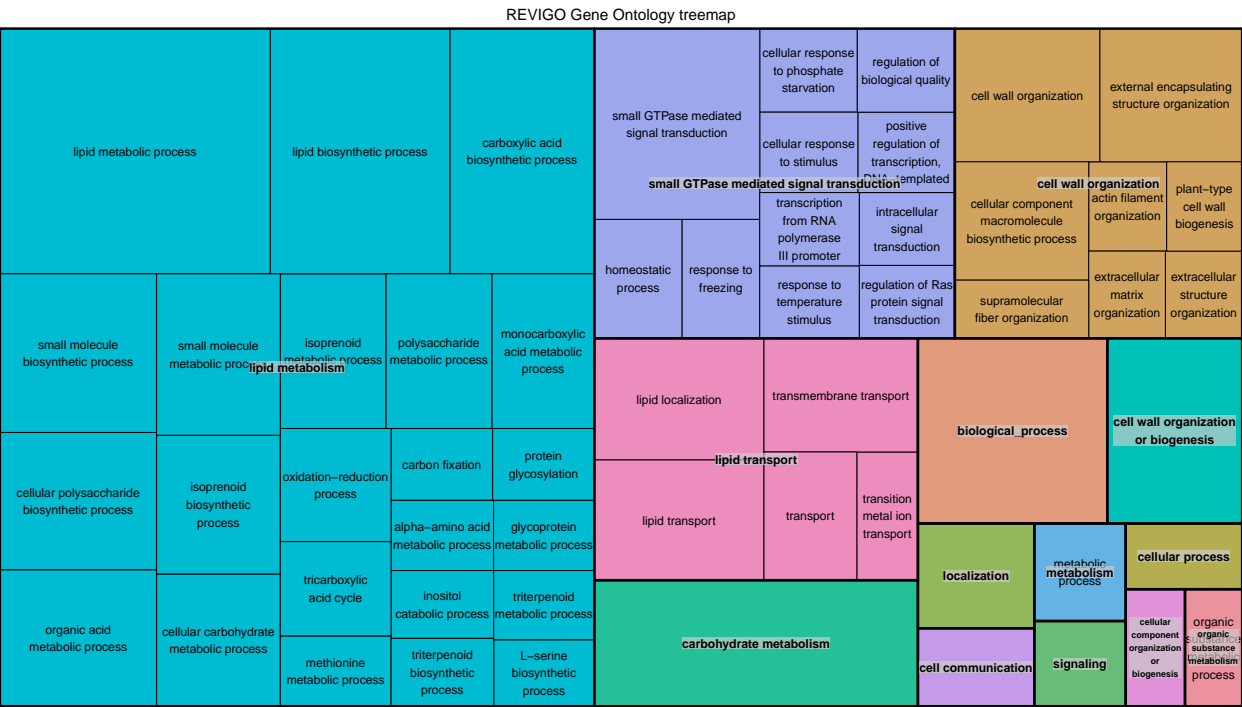


Figure S1.1: Treemap for the enriched GO terms (biological processes) of the up-regulated flower DEGs. The treemap is created using the applications g:Profiler followed by REVIGO.

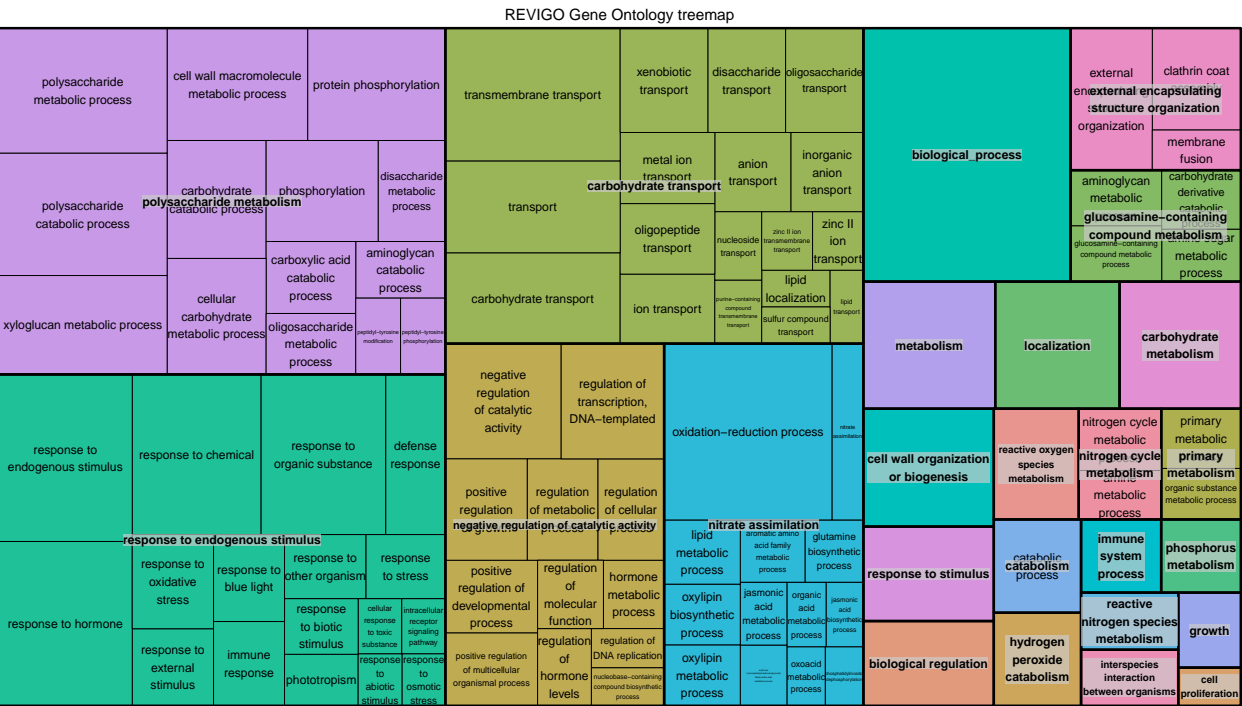


Figure S1.2: Treemap for the enriched GO terms (biological processes) of the down-regulated flower DEGs. The treemap is created using the applications g:Profiler followed by REVIGO.

lipid metabolic process		alpha-amino acid catabolic process		lipid biosynthetic process		polysaccharide metabolic process		cellular carbohydrate metabolic process		primary metabolic process		phloem development		phloem system histogenesis							
						polysaccharide metabolism		disaccharide metabolic process		protein phosphorylation		primary metabolism		phloem development							
												organic substance metabolic process		regulation of developmental process		regulation of shoot system development					
monocarboxylic acid biosynthetic process		organic acid metabolic process		monocarboxylic acid metabolic process		small molecule metabolic process		cellular glucan metabolic process		metabolism		biological process									
								carbohydrate catabolic process								oligosaccharide metabolic process		phosphorylation		organic cyclic compound catabolic process	
								lipid metabolism								glycine metabolic process		4-oxophenylpyruvate/phenylpyruvate/phenylalanine metabolic process		alpha-amino acid metabolic process	
small molecule biosynthetic process		phenylpropanoid metabolic process		branched-chain amino acid metabolic process		serine family amino acid metabolic process		movement of cell or subcellular component		electron transport chain		cell wall organization or biogenesis		lipid transport		catabolic catabolism process					
														lipid transport		ATP synthesis coupled proton transport					
														generation of precursor metabolites and energy		benzene-containing compound metabolism		microtubule-based movement			
oxidation-reduction process		secondary metabolic process		branched-chain amino acid biosynthetic process		microtubule-based process		phytosteroid metabolic process		cellular lipid biosynthetic process		aromatic compound catabolic process		homeostatic process		carbon utilization					
														regulation of cell growth		cellular component organization					
														cell wall organization		external encapsulating structure organization		carbohydrate metabolism			

REVIGO Gene Ontology treemap																											
regulation of transcription, DNA-templated				regulation of metabolic process				regulation of cellular process				sulfate reduction				oxidation-reduction process				cellular metabolic process				biological process			
nucleobase-containing compound biosynthetic process		cellular macromolecule metabolic process		heterocycle biosynthetic process		aromatic compound biosynthetic process		glutamine family amino acid catabolic process		proline catabolic process		glutamine family amino acid metabolic process		cellular metabolism		primary metabolic process		organic substance metabolic process									
cellular macromolecule biosynthetic process		peptidyl-arginine modification		peptidyl-arginine modification		peptidyl-arginine N-methylation		glutamine family amino acid catabolic process		proline catabolic process		small molecule catabolic process		metabolism				nitrogen compound metabolism									
macromolecule biosynthetic process		cellular nitrogen compound biosynthetic process		gene expression		organic cyclic compound metabolic process		response to stress		cellular response to toxic substance		response to cadmium ion						biosynthesis									
macromolecule metabolic process		RNA metabolic process		nucleic acid metabolic process		cellular biosynthetic process		cellular oxidant detoxification		response to stress		defense response		cellular process		biological regulation		transmembrane transport									
																		interspecies interaction between organisms									

Figure S1.4: Treemap for the enriched GO terms (biological processes) of the down-regulated leaf DEGs. The treemap is created using the applications g:Profiler followed by REVIGO.

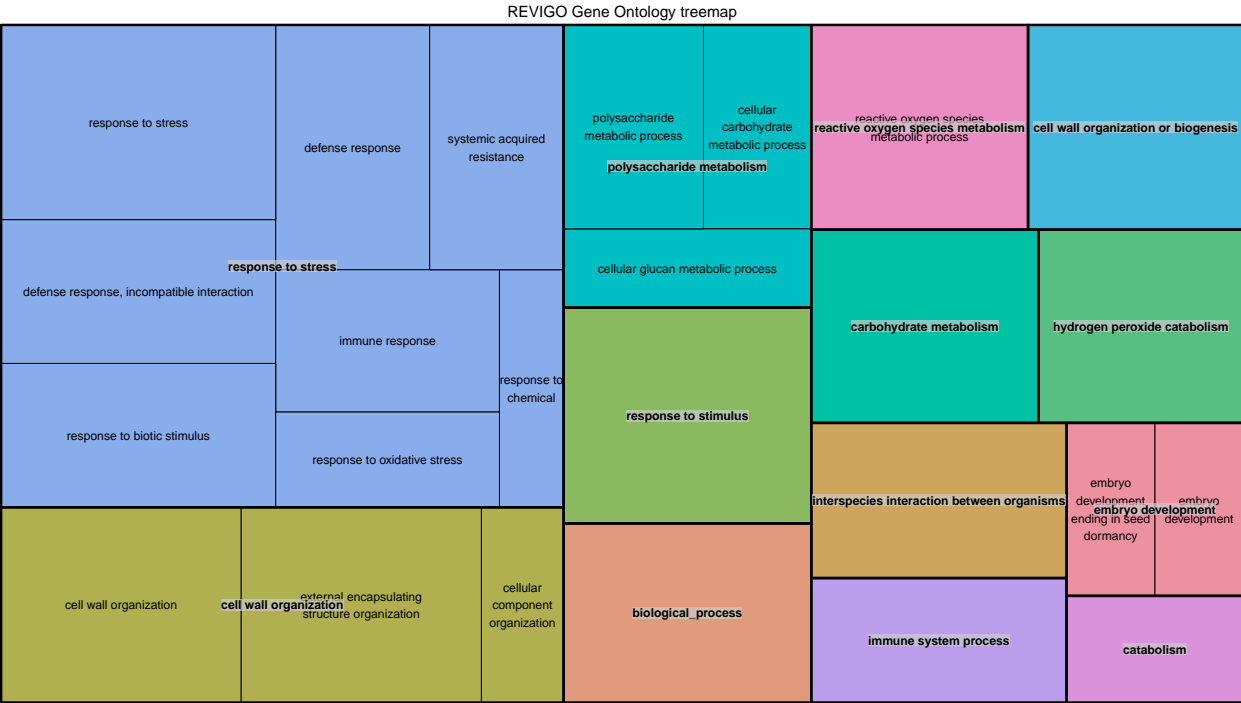


Figure S1.5: Treemap for the enriched GO terms (biological processes) of the up-regulated stem DEGs. The treemap is created using the applications g:Profiler followed by REVIGO.

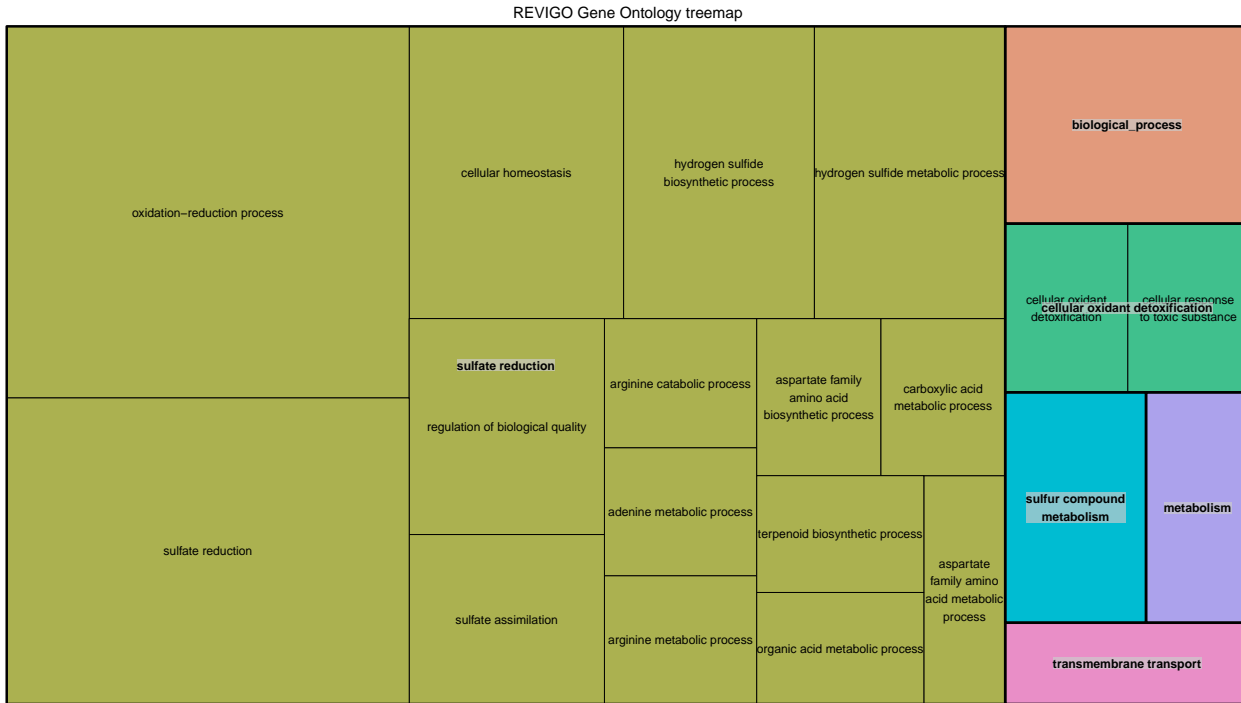


Figure S1.6: Treemap for the enriched GO terms (biological processes) of the down-regulated stem DEGs. The treemap is created using the applications g:Profiler followed by REVIGO.

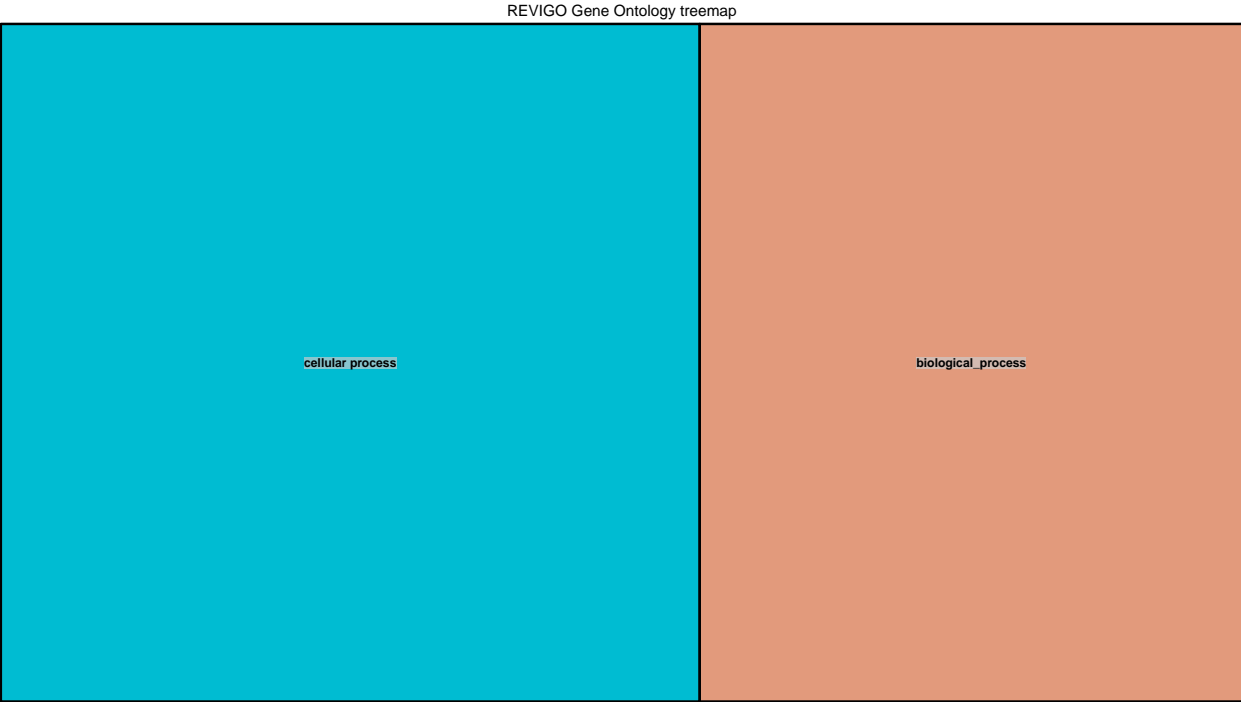


Figure S1.7: Treemap for the enriched GO terms (biological processes) of the up-regulated root DEGs. The treemap is created using the applications g:Profiler followed by REVIGO.

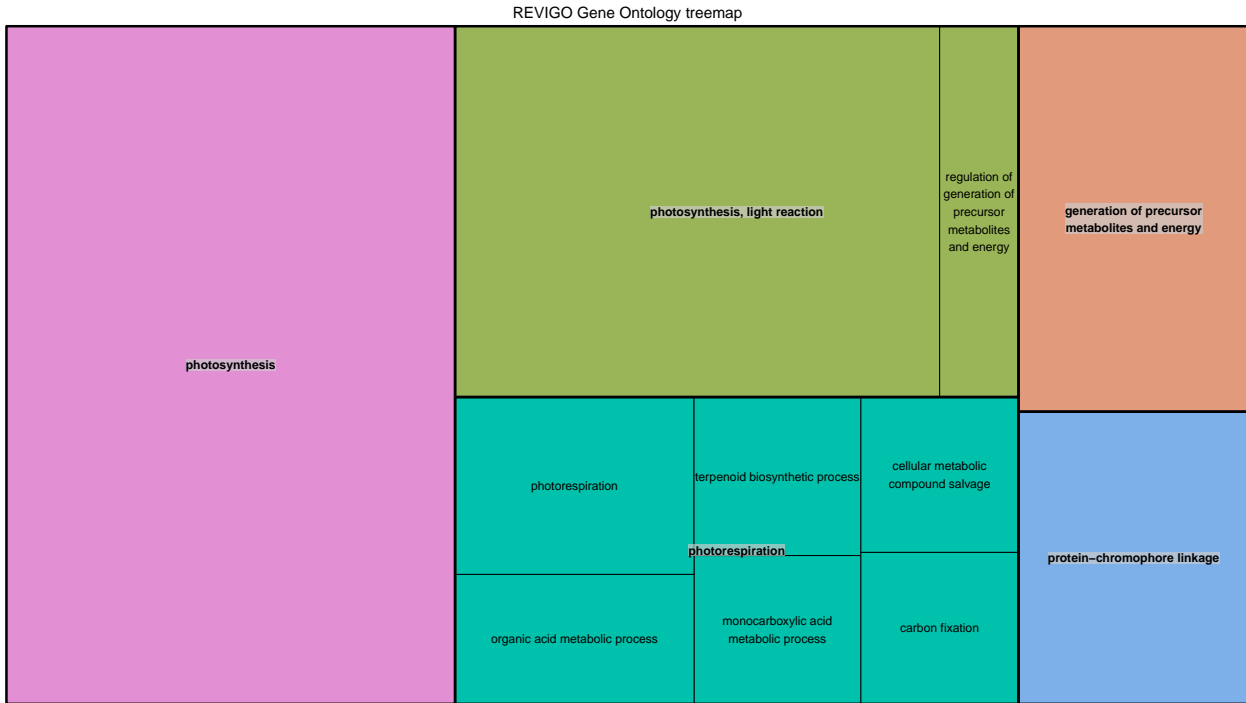


Figure S1.8: Treemap for the enriched GO terms (biological processes) of the down-regulated root DEGs. The treemap is created using the applications g:Profiler followed by REVIGO.