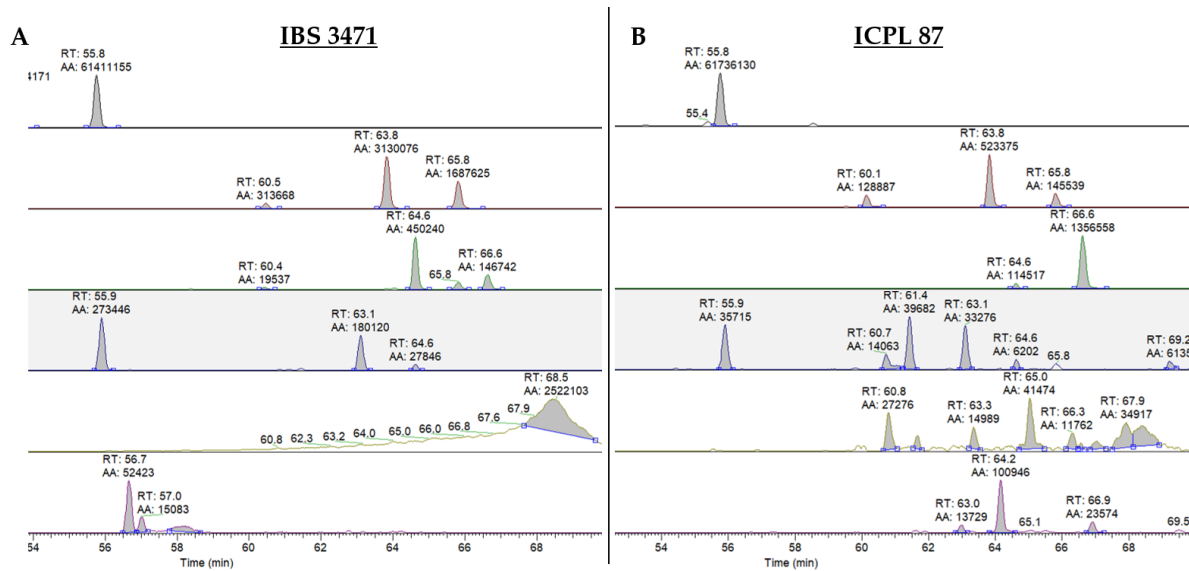


Supplementary Figure S1. Post-normalised data showing variability in the TMT-MS data. (A) Density plot and (B) Box plots of all identified proteins. ICPL 87 at flowering/podding stage [replication 3] was used as reference ratio across all samples.



Supplementary Figure S2. LCMS zoomed chromatogram of identified flavonoids compounds. (A) IBS 3471 chromatograms and (B) ICPL 87 chromatogram.

Supplementary Table S2. List of primers used for qRT-PCR in the study

Pathway	Gene ID	Prime r type	Primer sequence 5' - 3'	Amplicon size (bp)	Source
General Phenylpropanoid pathway	Phenylalanine ammonia- lyase (PAL)	F-	CTTGCCCTTGTGAATGGCAC	92	This study
		R-	AKAACTTCAGACAAGACAGC		
	Cinnamate 4-hydroxylase (C4H)	F-	CTCCTCCTGGCCTCAACAAG	100	
		R-	AACGACCTTGGCTTTGCAAC		
	4- Coumaroyl-CoA ligase (4CL)	F-	TGGTGGCTCTGACGAAAGAC	97	
		R-	AAGACTTCCTTTCCAGCGG		
Flavonol biosynthesis	Chalcone synthase (CHS)	F-	GAYGAGATGAGAAGGTGGTC	95	
		R-	GTAAKCCAGGGCCAAACCC		
	Flavonol synthase (FLS)	F-	TCAACTACGACATGTGGCCC	123	
		R-	CCAACCCTAACCCTTCGGAC		
Monolignols biosynthesis	Cinnamyl alcohol dehydrogenase (CAD)	F-	GCTCCTCTACTATGCGCAGG	117	
		R-	AGCTATGTGTCCAAGCCAC		
House Keeping Genes (Reference genes)	Initiation factor 4α	F-	GCCGAGATCACACAGTCTCA	95	Sinha et al. 2015
		R-	ACCACGAGCCAAAAGATCAG		
	Actin 11	F-	GGCATACATTGCCCTTGACT	97	
		R-	GAACCTCGGGACATCTGAAA		