

Supplementary table 4A – Average values of flavonoids (pmol/mg DW) detected in the seed coats of dormant RILs and intermediate CRIL2-25.

Class	Compound	CRIL2-14		CRIL2-21		CRIL2-27		CRIL2-42	
		Mean	SD	Mean	SD	Mean	SD	Mean	SD
Flavanol	Gallocatechin	11.506	0.313	5.621	1.072	7.194	1.025	14.633	0.894
	Catechin	–	–	1.587	0.397	–	–	–	–
Flavonol	Myricetin	7.033	0.055	2.251	0.614	7.911	2.017	7.160	1.857
	Quercetin	0.074	0.006	0.331	0.016	0.048	0.014	0.038	0.009
	Kaempferol	0.027	0.003	0.531	0.075	0.035	0.001	0.016	0.003
	Morin	2.497	0.058	6.534	1.876	2.063	0.518	1.668	0.282
	Myricitrin	0.521	0.040	0.393	0.118	0.716	0.216	1.633	0.126
	Quercitrin	0.877	0.143	1.868	0.494	0.635	0.207	2.035	0.078
	Luteolin	0.752	0.018	1.541	0.221	0.515	0.020	0.436	0.085
Flavone	Isoorientin	0.073	0.009	0.022	0.005	0.018	0.001	0.008	0.000
	Orientin	0.151	0.020	0.061	0.013	0.045	0.001	0.034	0.004
	Isovitexin	0.008	0.002	0.002	0.001	0.003	0.001	0.002	0.000
	Naringenin	3.368	0.191	3.141	0.644	3.619	0.386	1.814	0.279
		CRIL2-48		CRIL2-60		CRIL2-79		CRIL2-106	
		Mean	SD	Mean	SD	Mean	SD	Mean	SD
Flavanol	Gallocatechin	16.731	2.832	14.893	1.868	12.680	0.934	12.083	1.107
	Catechin	1.137	0.292	0.452	0.038	–	–	–	–
Flavonol	Myricetin	7.459	2.711	11.566	1.566	8.212	0.423	9.894	0.743
	Quercetin	0.751	0.173	0.048	0.009	0.020	0.003	0.035	0.005
	Kaempferol	0.320	0.041	0.016	0.002	0.007	0.001	0.019	0.002
	Morin	11.932	2.706	2.128	0.268	0.163	0.041	1.734	0.180
	Myricitrin	1.305	0.285	1.536	0.065	1.726	0.184	1.153	0.105
	Quercitrin	3.163	1.224	1.527	0.137	1.190	0.059	1.454	0.170
	Luteolin	5.925	1.507	0.337	0.091	0.343	0.079	1.511	0.118
Flavone	Isoorientin	0.053	0.010	0.007	0.001	0.003	0.001	0.021	0.001
	Orientin	0.053	0.015	0.048	0.004	0.023	0.003	0.054	0.006
	Isovitexin	0.005	0.001	0.003	0.000	0.002	0.001	0.006	0.000
	Naringenin	4.880	0.867	2.115	0.366	1.958	0.320	2.739	0.234

Supplementary table 4B – Average values of flavonoids (pmol/mg DW) detected in the seed coats of dormant RILs and intermediate CRIL2-25.

Class	Compound	CRIL2-114		CRIL2-115		CRIL2-129		CRIL2-131	
		Mean	SD	Mean	SD	Mean	SD	Mean	SD
Flavanol	Gallocatechin	8.995	0.844	7.442	1.885	12.640	0.831	17.576	0.225
	Catechin	–	–	–	–	0.558	0.125	0.518	0.051
Flavonol	Myricetin	10.519	1.303	4.367	0.169	15.143	2.349	9.365	0.305
	Quercetin	0.040	0.014	0.035	0.005	0.082	0.014	0.040	0.003
	Kaempferol	0.026	0.005	0.014	0.002	0.024	0.003	0.019	0.002
	Morin	0.134	0.028	0.114	0.026	3.329	0.218	0.210	0.012
	Myricitrin	0.424	0.050	0.531	0.152	3.049	0.129	1.472	0.021
	Quercitrin	0.705	0.094	0.651	0.228	2.958	0.196	0.900	0.082
	Luteolin	0.441	0.106	0.627	0.003	0.495	0.031	0.571	0.051
Flavone	Isoorientin	0.036	0.010	0.010	0.000	0.009	0.002	0.009	0.001
	Orientin	–	–	0.030	0.004	0.026	0.008	0.017	0.001
	Isovitexin	0.005	0.001	0.002	0.000	0.004	0.001	0.004	0.001
	Naringenin	2.652	0.510	2.936	0.703	3.699	0.628	3.534	0.297
		CRIL2-25							
		Mean	SD						
Flavanol	Gallocatechin	9.642	0.929						
	Catechin	–	–						
Flavonol	Myricetin	10.735	0.919						
	Quercetin	0.094	0.013						
	Kaempferol	0.043	0.001						
	Morin	2.954	0.445						
	Myricitrin	0.834	0.093						
	Quercitrin	0.825	0.055						
	Luteolin	0.831	0.109						
Flavone	Isoorientin	0.052	0.006						
	Orientin	0.114	0.016						
	Isovitexin	0.006	0.002						
	Naringenin	3.467	0.765						