

Table S4. Slopes, intercept coefficients and significance of regression equations between 100 seeds dry weight and contents of lutein, zeaxanthin, β -carotene, total carotenoids, chlorophyll-a, chlorophyll-b and total chlorophylls from diversified soybean germplasm accessions with black (n = 41), brown (n = 18), green (n = 18) and yellow (n = 331) seed coat colors

Seed coat color	Factor	Carotenoid components			Chlorophyll components			
		Lutein	Zeaxanthin	β -carotene	Total carotenoids	Chlorophyll-a	Chlorophyll-b	Total chlorophylls
Black	Slope	-1.0290	-0.0767	-0.0173	-1.1237	0.1284	-0.1281	-0.0052
	Intercept	30.6140	1.6453	0.8099	32.6806	9.6778	6.2746	15.5823
	P-value	**	**	NS	**	NS	NS	NS
Brown	Slope	-0.4959	-0.0242	-0.0443	-0.5896	-0.3187	-0.1725	-0.5042
	Intercept	19.4264	1.0398	0.8557	21.1902	9.7090	4.6684	12.6712
	P-value	NS	NS	*	NS	NS	*	*
Green	Slope	-0.1470	0.0267	-0.0104	-0.1523	-0.1397	-0.0771	-0.2355
	Intercept	15.8542	1.0412	0.6565	16.2128	10.9258	4.9030	14.9041
	P-value	NS	NS	NS	NS	NS	NS	NS
Yellow	Slope	-0.0431	-0.0034	-0.0118	0.0446	0.1724	0.0047	0.0350
	Intercept	11.2062	0.4965	0.6676	11.3786	0.5532	0.8437	1.2851
	P-value	NS	NS	NS	NS	**	NS	NS

*, ** significant at $p < 0.05$ and $p < 0.01$, respectively; NS, not significant.