

Table S1. Correlations between antioxidant and phenolic contents of pollen samples.

	Gallic acid	Catechin	Chlorogenic acid	p-Coumaric acid	Hesperidin	Rosmanic acid	Quercetin	Apigenin	Naringin	TPC	TFC	FICA	HPSA	ABTS	DPPH	FRAP
Gallic acid	1.000															

Catechin	0.182	1.000														
	0.614	---														
Chlorogenic acid	-0.634**	0.280	1.000													
	0.049	0.433	---													
p-Coumaric acid	0.024	0.355	0.141	1.000												
	0.947	0.315	0.697	---												
Hesperidin	-0.845***	0.009	0.914***	-0.042	1.000											
	0.002	0.981	<0.001	0.907	---											
Rosmanic acid	-0.158	0.182	0.423	-0.248	0.455	1.000										
	0.663	0.615	0.223	0.489	0.187	---										
Quercetin	-0.347	-0.156	-0.067	0.236	0.079	-0.515	1.000									
	0.327	0.668	0.853	0.511	0.829	0.128	---									
Apigenin	-0.274	-0.623*	0.141	-0.467	0.358	0.103	0.164	1.000								
	0.444	0.054	0.697	0.174	0.310	0.777	0.651	---								
Naringin	-0.164	-0.043	0.215	-0.212	0.333	0.515	0.273	0.164	1.000							
	0.650	0.906	0.551	0.556	0.347	0.128	0.446	0.651	---							
TPC	-0.152	0.104	0.153	0.915***	-0.016	-0.297	0.224	-0.370	-0.261	1.000						
	0.675	0.775	0.672	<0.001	0.965	0.405	0.533	0.293	0.467	---						
TFC	-0.650**	0.164	0.571*	-0.321	0.650**	0.297	0.115	0.370	0.152	-0.262	1.000					
	0.042	0.650	0.085	0.365	0.042	0.405	0.751	0.293	0.676	0.464	---					
FICA	0.298	0.623*	0.313	-0.200	0.103	0.515	-0.418	-0.333	0.455	-0.370	0.103	1.000				
	0.403	0.054	0.379	0.580	0.777	0.128	0.229	0.347	0.187	0.293	0.777	---				
HPSA	0.298	-0.277	-0.362	-0.745**	-0.261	0.309	-0.418	0.248	0.115	-0.612*	0.176	-0.170	1.000			
	0.403	0.439	0.304	0.013	0.467	0.385	0.229	0.489	0.751	0.060	0.627	0.578	---			
ABTS	0.334	0.138	-0.264	0.273	-0.442	-0.491	-0.382	-0.345	-0.939**	0.345	-0.224	0.126	-0.445	1.000		
	0.345	0.703	0.461	0.446	0.200	0.150	0.276	0.328	<0.001	0.328	0.533	0.681	0.128	---		
DPPH	0.146	-0.294	-0.080	-0.455	-0.285	-0.079	0.139	0.758**	-0.006	-0.623*	-0.112	-0.154	-0.011	-0.066	1.000	
	0.688	0.409	0.827	0.187	0.424	0.829	0.701	0.011	0.987	0.054	0.759	0.616	0.972	0.831	---	
FRAP	-0.205	0.505	0.506	0.189	0.360	0.238	-0.104	-0.061	-0.122	0.213	0.640**	0.441	-0.490	0.592**	0.061	1.000
	0.570	0.137	0.135	0.601	0.307	0.508	0.776	0.867	0.737	0.554	0.046	0.132	0.089	0.033	0.844	---

*, **, ***: Correlation is significant at the 0.10, 0.05 and 0.01 levels (2-tailed), respectively.

Table S2. Correlations between element concentrations of pollen samples.

	Mg	Cr	Mn	Fe	Co	Ni	Cu	Zn	Se	Cd
Mg	1.000									

Cr	0.406	1.000								
	0.245	---								
Mn	-0.253	0.173	1.000							
	0.481	0.633	---							
Fe	-0.271	0.145	0.318	1.000						
	0.448	0.690	0.370	---						
Co	-0.164	0.588*	-0.216	0.052	1.000					
	0.650	0.074	0.548	0.887	---					
Ni	-0.225	0.211	0.142	-0.583*	0.294	1.000				
	0.532	0.559	0.695	0.077	0.409	---				
Cu	-0.139	0.236	0.758**	0.055	0.035	0.176	1.000			
	0.701	0.511	0.011	0.881	0.924	0.627	---			
Zn	-0.127	0.309	0.745**	0.503	-0.061	0.200	0.406	1.000		
	0.726	0.385	0.013	0.138	0.868	0.580	0.244	---		
Se	0.006	-0.455	0.370	0.394	-0.545	-0.394	-0.006	0.418	1.000	
	0.987	0.187	0.293	0.260	0.103	0.260	0.987	0.229	---	
Cd	-0.146	0.251	-0.157	-0.022	0.588*	0.038	-0.358	-0.091	-0.103	1.000
	0.687	0.484	0.665	0.952	0.074	0.918	0.310	0.803	0.777	---

*, **, ***: Correlation is significant at the 0.10, 0.05 and 0.01 levels (2-tailed), respectively.