Comparative Phytochemical Characterization of Turkish Propolis Extracts and Their Antioxidant, Antibacterial, and Anticancer Activities

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Table S1: Palynology composition of the propolis samples.

Plant Family	**K1**	**K2**	**K3**	**K4**	**K5**	**K6**	**K7**	**K8**	**K9**
Amaranthaceae	T	-	-	-	T	-	T	-	-
Amaryllidaceae	T	-	-	-	-	-	-	-	-
Apiaceae	M	M	M	T	M	M	M	T	M
Araliaceae	M	M	T	T	T	M	M	T	M
Asparagaceae	T	-	-	T	-	-	T	T	T
Asteraceae	M	M	T	T	M	M	M	T	M
Boraginaceae	M	M	T	T	M	M	M	T	M
Brassicaceae	T	-	T	T	T	T	M	-	T
Caryophyllaceae	-	T	-	-	-	T	T	-	-
Cisteraceae	-	-	T	-	T	-	T	-	T
Cornaceae	T	T	T	T	T	T	T	T	T
Campanulaceae	T	T	-	T	-	T	T	-	T
Tricaceae	-	-	-	-	T	T	T	T	-
Fabaceae	M	D	M	D	D	D	D	M	D

Fagaceae	D	S	S	M	M	M	M	D	S
Lamiaceae	M	T	T	T	T	T	T	M	T
Myrtaceae	T	-	-	-	-	-	-	T	-
Malvaceae	M	T	T	T	T	M	M	T	T
Moraceae	T	T	T	T	T	T	T	M	M
Papaveraceae	-	-	T	T	-	T	T	M	T
Polygalaceae	T	-	T	T	T	-	T	-	T
Pinaceae	T	T	T	T	T	T	T	T	-
Poaceae	T	-	T	-	T	T	T	-	-
Ranunculaceae	-	T	-	T	T	T	T	-	T
Rosaceae	T	M	D	T	T	T	T	S	M
Salicaceae	T	-	T	T	-	M	-	T	-
Ulmaceae	T	T	T	T	T	T	-	T	-

Table S1 Continuing

Plant Family	**K10**	**K11**	**K12**	**K13**	**K14**	**K15**	**K16**	**K17**	**K18**
Amaranthaceae	-	-	T	-	-	-	-	-	-
Amaryllidaceae	-	-	-	T	-	-	-	-	T
Apiaceae	T	M	T	T	M	M	M	M	M
Araliaceae	T	M	M	M	M	M	M	M	M
Asparagaceae	T	T	-	-	-	-	T	T	T
Asteraceae	T	-	T	M	M	M	M	M	T
Boraginaceae	T	M	M	M	M	M	M	M	M
Brassicaceae	T	T	M	-	M	T	T	-	T
Caryophyllaceae	T	-	T	T	-	T	-	T	T
Cisteraceae	-	T	T	-	T	-	-	T	-

Cornaceae	T	T	T	T	T	T	T	T	T
Campanulaceae	T	-	T	-	-	-	T	T	-
Tricaceae	-	T	-	-	M	T	T	-	-
Fabaceae	D	S	S	S	M	S	S	D	D
Fagaceae	M	D	M	M	T	D	M	M	M
Lamiaceae	T	M	T	M	T	T	T	T	M
Myrtaceae	-	-	-	-	T	T	-	-	-
Malvaceae	T	M	T	M	T	M	T	M	M
Moraceae	T	T	T	T	M	M	-	-	-
Papaveraceae	T	-	T	T	-	-	-	-	-
Polygalaceae	-	T	T	T	-	-	T	-	T
Pinaceae	T	-	T	T	T	M	M	M	M
Poaceae	T	-	T	T	-	-	-	-	T
Ranunculaceae	-	-	T	T	M	-	T	T	T
Rosaceae	T	M	D	D	D	M	D	T	T
Salicaceae	T	-	-	T	T	-	-	T	-
Ulmaceae	T	-	-	T	T	-	T	-	-

Table S1 Continuing

Plant Family	**K19**	**K20**	**K21**	**K22**	**K23**	**K24**	**K25**	**K26**	**K27**	**K28**	**K29**	**K30**
Amaranthaceae	-	-	-	T	-	T	T	T	T	T	M	M
Amaryllidaceae	-	T	T	-	T	-	-		-	T	T	T
Apiaceae	T	M	T	T	M	M	T	M	M	M	S	M
Araliaceae	T	M	T	M	M	M	M	M	M	M	S	M
Asparagaceae	-	-	-	-	T	T	-	-	-	T	T	T
Asteraceae	T	M	T	M	M	T	M	M	M	M	S	M
Boraginaceae	-	M	M	M	M	M	M	M	M	M	S	M
Brassicaceae	T	T	T	T	M	T	M	M	M	M	S	M

Caryophyllaceae	-	T	-	T	-	T	T	T	T	T	T	M
Cisteraceae	-	T	-	T	-	T	-	-	T	T	-	-
Cornaceae	T	T	T	T	T	T	-	T	T	-	T	T
Campanulaceae	-	T	-	T	T	T	-	T	T	-	-	-
Tricaceae	-	-	-	-	-	-	T	T	T	-	-	-
Fabaceae	D	S	S	D	D	D	M	M	S	S	D	D
Fagaceae	M	D	M	M	M	M	D	D	D	D	S	M
Lamiaceae	M	T	T	M	M	T	T	T	M	M	S	M
Myrtaceae	-	T	-	T	-	-	-	T	-	-	-	-
Malvaceae	T	M	T	M	M	M	M	M	M	M	M	M
Moraceae	M	T	T	T	T	T	T	T	T	-	T	
Papaveraceae	T	T	-	T	T	-	M	T	T	T	M	T
Polygalaceae	-	T	T	T	T	T	T	T	T	-	T	-
Pinaceae	T	T	T	M	M	M	T	M	T	M	T	T
Poaceae	T	-	T	T	T	T	T	T	-	-	-	T
Ranunculaceae	T	T	T	T	T	T	M	T	M	M	M	M
Rosaceae	S	M	D	S	T	S	S	T	M	M	S	S
Salicaceae	T	T	-	T	T	-	T	T	T	T	M	M
Ulmaceae	T	T	T	-	-	T	T	T	T	T	-	T

Table S2. PCA loadings

Parameters	PC 1	PC 2
TFC QE mg/g	**0.31457**	0.1078
TPC mg GA/g	0.28239	0.21802
FRAP mg AA/g	0.29664	0.21376
DPPH %	0.23093	-0.059835
Catechin	-0.0048153	0.1609
Cinnamic acid	-0.02379	-0.01407
Gallic acid	0.093177	-0.11354
Caffeic acid	-0.10737	0.028664
2-5 dihydroxy benzoic acid	0.2579	0.29331
Trans ferulic acid	0.15036	-0.27099
Rutin trihidrat	-0.082381	0.20912
Myrcetin	0.23594	**0.35534**

Naringenin	-0.38225	0.049418
Ellagic acid	-0.2486	0.25385
Quercetin	-0.076131	**0.39526**
Luteolin	-0.05164	**0.42379**
Chrysin	-0.33612	-0.0086893
Apigenin	-0.29669	**0.33478**
CAPE	-0.29322	-0.011837
Triacetin	0.065207	-0.085442