

Table S1. Volatile emissions of compounds detected in the headspace of catkins collected from Varnavas (CV), Fenos (CF) and Kastanitsa (CK), expressed in $\mu\text{g h}^{-1} \pm \text{SE}$.

RI ¹	RI ²	Compound	CV	CF	CK	X ²	df, n	p
797	798	(Z)-3-Hexenal			2.71±0.87			
802	798	Ethyl butanoate	1.55±0.70	0.78±0.20	2.01±0.50	2.005	2, 17	0.367
846	841	Ethyl 2-methylbutanoate	0.34±0.04	0.58±0.12		2.817	1, 14	0.093
850	849	(Z)-3-Hexen-1-ol	1.69±0.69a ³	4.67±0.75a,b	7.90±1.96b	8.390	2, 20	0.015
854	852	(Z)-2-Hexen-1-ol	0.31±0.03					
863	860	n-Hexanol	0.78±0.23					
911	913	n-Amyl acetate			0.30±0.03			
924	925	α -thujene		0.78±0.17	0.34±0.16	2.893	1, 11	0.089
932	929	α -pinene	0.25±0.06b	9.30±1.87a	3.28±1.20a,b	14.310	2, 20	<0.001
938	935	Ethyl tiglate	0.16±0.02					
946	947	Camphene	0.23±0.08b	1.12±0.19a	0.96±0.17a	10.462	2, 20	0.005
969	970	Sabinene	0.79±0.07a	141.05±18.74b	56.51±17.20a,b	14.700	2, 20	<0.001
974	978	β -pinene	0.26±0.05a	13.62±1.91b	6.14±2.48a,b	12.498	2, 18	0.002
988	988	β -Myrcene	0.87±0.20a	34.25±7.59b	13.28±5.40a,b	13.456	2, 20	0.001
993	993	Butyl butyrate		0.58±0.27				
997	998	Ethyl hexanoate	0.23±0.05	0.25±0.08	0.21±0.01	0.123	2, 16	0.940
1001	1006	(E)-3-Hexenyl acetate	0.08±0.02a	0.36±0.05b	0.31±0.05b	10.101	2, 19	0.006
1004	1008	(Z)-3-Hexenyl acetate	5.12±2.17a	51.27±7.21b	80.96±20.34b	12.533	2, 20	0.002
1010	1013	(E)-2-Hexenyl acetate	0.10±0.03a	0.60±0.08b	0.56±0.10b	9.851	2, 16	0.007
1007	1014	Hexyl acetate	0.08±0.02a	0.52±0.17b	0.66±0.22b	10.535	2, 18	0.005
1014	1016	α -Terpinene	0.10±0.01a	3.37±0.78b	1.15±0.42a,b	13.724	2, 20	0.001
1020	1025	p-cymene	0.04±0.02a	0.31±0.09b	0.37±0.26a,b	8.357	2, 17	0.015
1030	1029	Limonene	0.25±0.04a	13.33±2.45b	4.34±1.63a,b	14.700	2, 20	<0.001
1031	1030	β -phelladrene	0.02±0.00a	3.03±0.62b	0.78±0.28a,b	11.575	2, 17	0.003
1026	1031	eucalyptol	0.07±0.02a	2.79±0.64b	0.84±0.34a,b	12.729	2, 19	0.002
1032	1035	(Z)- β -Ocimene	6.56±1.97	8.03±1.92	19.35±5.65	4.190	2, 20	0.123
1037	1039	Benzyl alcohol		1.10±0.29				
1044	1048	(E)- β -Ocimene	151.18±46.90	131.82±30.13	226.87±43.80	2.538	2, 20	0.281
1059	1059	γ -Terpinene	0.06±0.00a	3.08±0.70b	0.93±0.50a,b	12.643	2, 20	0.002
1061	1062	α -Methyl Benzenemethanol	0.09±0.02	0.14±0.07	0.21±0.05	3.868	2, 15	0.145
1059	1069	Acetophenone	4.71±1.08	2.66±0.82	6.08±1.87	3.485	2, 19	0.175
1086	1085	α -terpinolene	0.04±0.01a	0.79±0.18b	0.29±0.11a,b	12.190	2, 18	0.002
1084	1087	(E)-Linalool oxide (furanoid)	0.43±0.09a	1.25±0.18b	0.92±0.08a,b	9.994	2, 19	0.007
1099	1096	α -Pinene oxide	0.31±0.01a		0.76±0.07b	5.000	1, 8	0.025
1099	1097	Methyl benzoate	0.32±0.05	0.50±0.07		4.000	1, 13	0.046
1095	1101	(Z)-3-Hexenyl propanoate			0.40±0.06			
1101	1101	Linalool	0.42±0.07	0.76±0.25	0.80±0.15	3.667	2, 19	0.160
1100	1107	n-Nonanal	0.10±0.01	0.18±0.04	0.22±0.05	5.637	2, 19	0.060
1117	1117	(E)-DMNT	2.47±0.56	2.15±0.57	2.52±0.64	1.027	2, 20	0.598
1128	1128	(E)-Allo-ocimene	1.48±0.42	1.52±0.48	4.18±1.21	5.333	2, 20	0.069
1130	1132	(E,E)-Cosmene	0.46±0.10					
1140	1141	neo-allo-ocimene	0.46±0.14	0.31±0.08		0.750	1, 8	0.386

1142	1143	(Z)-3-hexenyl isobutanoate	0.08±0.02a	0.10±0.02a	0.35±0.05b	9.708	2, 15	0.008
1169	1173	Ethyl benzoate	1.05±0.33	1.39±0.27	0.53±0.10	4.953	2, 18	0.084
1184	1184	(Z)-Cinerone	0.18±0.06					
1184	1184	4-Terpineol		0.26±0.11				
1187	1187	(Z)-3-Hexenyl butanoate	0.32±0.13a	0.52±0.07a,b	2.24±0.61b	10.348	2, 20	0.006
1187	1192	n-dodecene		0.13±0.03				
1191	1193	Hexyl butanoate	0.12±0.03					
1195	1195	Methyl salicylate	0.41±0.05	0.53±0.08	0.51±0.08	0.837	2, 20	0.658
1200	1199	n-Dodecane	0.03±0.00	0.07±0.02		4.800	1, 11	0.028
1209	1209	Decanal	0.05±0.01a		0.19±0.08b	5.000	1, 8	0.025
		(3E,5E)-2,6-	0.08±0.02					
1209	1211	Dimethylocta-3,5,7-trien-2-ol						
1229	1232	(Z)-3-Hexenyl 2-methyl butanoate	0.11±0.03	0.18±0.04	0.38±0.09	5.529	2, 19	0.063
1237	1237	(Z)-2-hexenyl isovalerate	0.06±0.01a	0.19±0.05b	0.17±0.02b	9.047	2, 16	0.011
	1258	Unknown 3	0.06±0.03	0.18±0.04		4.321	1, 11	0.038
	1267	m-Ethylacetophenone		0.27±0.04	0.25±0.02	0.165	1, 12	0.685
1270	1271	Ethyl salicylate	0.17±0.04a	0.39±0.06b	0.25±0.02a,b	10.781	2, 16	0.005
1279	1288	p-Ethylacetophenone		0.37±0.05				
1300	1300	n-Tridecane	0.02±0.01					
1319	1324	(Z)-Hex-3-enyl (E)-2-methylbut-2-enoate	0.04±0.01					
1335	1330	δ-Elemene	0.03±0.00					
1374	1374	α-Copaene	0.06±0.01					
1378	1381	(Z)-3-hexenyl hexanoate	0.08±0.01		0.13±0.02	2.400	1, 9	0.121
1400	1400	n-Tetradecane	0.03±0.01					
1407	1409	Longifolene	0.03±0.01					
1419	1419	(E)-β-Caryophyllene	0.62±0.10	1.03±0.30	0.41±0.10	2.990	2, 20	0.224
1419	1425	β-Cedrene	0.06±0.02					
1452	1457	α-Humulene	0.08±0.01					
1458	1459	allo-Aromadendrene	0.03±0.00					
1462	1462	cis-Muurola-4(15),5-diene	0.05±0.01					
1484	1480	Germacrene D	0.45±0.17	0.34±0.10	0.25±0.03	0.834	2, 19	0.659
1493	1490	α-Zingiberene	0.50±0.29a	0.50±0.05a,b	0.97±0.11b	6.548	2, 20	0.038
1494	1495	Bicyclogermacrene	0.13±0.03	0.06±0.01		2.133	1, 11	0.144
1500	1500	Pentadecane		0.05±0.02	0.02±0.00	4.000	1, 8	0.046
1505	1504	(E,E)-α-Farnesene	23.50±13.57	2.33±0.88	5.91±0.99	6.919	2, 20	0.031
1513	1513	γ-Cadinene	0.04±0.01					
1522	1518	δ-Cadinene	0.04±0.01					
1561	1562	(E)-Nerolidol	0.04±0.01					
1565	1574	(Z)-3-Hexenyl benzoate	0.12±0.03	0.21±0.07	0.12±0.01	1.764	2, 19	0.414
1577	1579	Spathulenol	0.03±0.01	0.03±0.01		0.060	1, 9	0.806
	1597	sesquiterpene			0.45±0.05			
1582	1583	Caryophyllene oxide	0.07±0.01	0.20±0.05		3.753	1, 10	0.053

1828	1830	Isopropyl myristate	0.10±0.01
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¹ RI: Retention Index values obtained from Adams [20] and the NIST database [21].

² RT_c: Retention Index values were calculated relative to C_{7–30} n-alkanes on a column with 5% diphenyl/95% dimethyl polysiloxane stationary phase.

³ Different letters within a row, are significantly differ based on the Kruskal–Wallis test (p = 0.05).