

**Genetic chemical variability of the volatiles and phenolic compounds in *Clinopodium serpyllifolium* subsp. *fruticosum* (L.) Bräuchler syn. *Micromeria fruticosa* (L.) Druce grown in Israel**

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**Supplementary material**

**Table S1.** Chemical composition of volatiles from the solvent extraction of *C. serpyllifolium*.

No.	Components	RI	P-1	P-2	P-3	P-4	P-5	P-6	P-7	P-8	P-9	P-10
	<b>Monoterpene hydrocarbons</b>		<b>8.5</b>	<b>9.7</b>	<b>7.2</b>	<b>7.2</b>	<b>8.3</b>	<b>8.7</b>	<b>7.9</b>	<b>8.7</b>	<b>7.0</b>	<b>9.0</b>
1	$\alpha$ -Pinene	932	1.3	1.4	1.3	1.0	1.4	1.2	1.2	1.5	1.1	1.1
2	Sabinene	969	0.2	0.2	0.2	0.3	0.2	0.1	0.2	0.2	0.2	0.2
3	$\beta$ -Pinene	974	1.2	1.2	1.6	1.0	1.2	1.6	1.2	1.6	1.1	1.9
4	Myrcene	988	1.2	1.4	1.1	1.1	1.2	1.2	1.0	1.4	1.1	1.2
5	Limonene	1024	4.3	4.9	2.9	3.4	4.0	4.4	4.3	3.7	2.9	4.2
6	Terpinolene	1086	0.2	0.4	0.1	0.3	0.2	0.1	tr	0.3	0.4	0.4
7	allo-Ocimene	1128	0.1	0.2	tr	0.1	0.1	0.1	tr	tr	0.2	tr
	<b>Oxygenated monoterpenes</b>		<b>70.8</b>	<b>71.7</b>	<b>70.5</b>	<b>72.4</b>	<b>70.3</b>	<b>70.7</b>	<b>70.9</b>	<b>71.0</b>	<b>65.8</b>	<b>68.7</b>
8	Menthone	1148	1.4	0.7	tr	2.5	tr	0.9	0.5	3.3	0.4	0.6
9	Iso-menthone	1158	2.1	1.4	6.4	3.9	4.1	1.7	1.4	tr	1.3	3.6
10	Iso-menthol	1179	3.1	5.7	tr	7.8	tr	2.8	0.3	8.8	3.4	1.1
11	<i>trans</i> -Isopulegone	1179	2.6	2.8	1.4	1.0	1.6	1.7	0.5	1.4	0.9	0.5
12	Neoisomenthol	1184	2.8	3.0	7.4	8.7	7.6	1.7	1.0	tr	2.6	7.5
13	<i>cis</i> -Pulegol	1226	1.0	2.7	1.1	1.7	1.4	0.3	tr	1.4	2.3	1.7
14	Pulegone	1233	48.8	50.6	43.6	33.1	49.7	34.8	10.4	45.5	37.8	25.2
15	<i>cis</i> -Piperitone oxide	1250	0.2	tr	0.7	0.3	0.3	2.1	2.4	1.4	1.6	0.5
16	<i>trans</i> -Piperitone oxide	1252	0.7	0.6	0.4	4.8	0.3	0.9	11.2	1.4	1.6	4.0
17	Piperitenone	1340	0.9	1.0	1.5	2.0	1.2	5.1	14.6	2.7	4.0	13.8
18	Piperitenone oxide	1366	7.2	3.2	8.0	6.6	4.1	18.7	28.6	5.1	9.9	10.2
	<b>Sesquiterpene hydrocarbons</b>		<b>16.3</b>	<b>14.3</b>	<b>15.5</b>	<b>15.9</b>	<b>17.2</b>	<b>17.4</b>	<b>16.3</b>	<b>15.9</b>	<b>22.6</b>	<b>16.2</b>
19	Bicycloelemene	1338	0.8	0.6	0.8	1.1	0.9	0.8	0.9	1.2	1.0	0.3
20	$\alpha$ -Copaene	1374	0.2	0.1	0.1	0.2	0.2	0.4	0.3	0.2	0.2	0.3
21	$\beta$ -Bourbonene	1387	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1
22	$\beta$ -Elemene	1389	0.3	0.2	0.1	0.2	0.2	0.4	0.2	0.2	0.2	0.2
23	$\beta$ -Caryophyllene	1417	7.9	7.4	8.2	8.1	9.6	9.5	7.7	7.6	13.7	10.1
24	$\beta$ -Copaene	1430	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.1
25	$\alpha$ -Humulene	1452	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.5	0.4
26	Germacrene D	1480	4.1	3.3	3.1	3.4	3.0	3.9	3.3	3.5	3.5	3.5
27	Bicyclogermacrene	1500	0.9	0.8	1.0	1.1	1.2	0.0	0.8	1.6	1.4	0.0
28	( $\delta$ )-Cadinene	1522	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	<b>Oxygenated sesquiterpenes</b>		<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.3</b>	<b>0.3</b>	<b>0.2</b>	<b>0.3</b>	<b>0.2</b>
29	Germacrene D-4-ol	1574	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0
30	Caryophyllene oxide	1582	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.1
	<b>others</b>		<b>0.4</b>	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.4</b>	<b>0.3</b>	<b>0.8</b>	<b>0.3</b>	<b>0.5</b>	<b>0.5</b>
31	Eugenol	1360	0.2	0.2	0.2	0.1	0.2	0.1	0.6	0.0	0.4	0.3
32	( <i>Z</i> )-Jasmone	1392	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.1	0.2
	<b>Total</b>		<b>95.6</b>	<b>95.7</b>	<b>93.2</b>	<b>95.5</b>	<b>95.8</b>	<b>96.8</b>	<b>95.1</b>	<b>95.6</b>	<b>95.4</b>	<b>93.9</b>
	<b>Total (<math>\mu\text{g/gm}</math>)</b>		<b>5816.6</b>	<b>7387.0</b>	<b>6523.3</b>	<b>8031.0</b>	<b>7876.8</b>	<b>7228.1</b>	<b>4482.2</b>	<b>5026.4</b>	<b>5548.2</b>	<b>5494.6</b>

%GC peak, the percentage composition was calculated from the GC peak areas. tr = trace, less than 0.01%; RI = Retention index