

**Table S1.** Major volatile components detected in thyme populations by modified liquid extraction method from fresh leaves.

No	Compound	Formula	Major Ion	RT**	KI***
1	Beta-Pinene	C10H16	93	193	980
2	Beta-Myrcene	C10H16	41,93, 69	217	991
3	Alpha- Phellandrene	C10H16	93	225	1005
4	Alpha-Thujene	C10H16	93	233	931
5	<i>p</i> -Cymene	C10H14	119	240	1026
6	Alpha-Cubebene	C15H24	161	410	1351
7	Ocimene	C10H16	93	242	1050
8	Gamma-Terpinene	C10H16	93	260	1062
9	Benzyl acetate*	C9H10O2	108	320	1163
10	Thymol	C10H14O	135	355	1290
11	Beta-Caryophyllene	C15H24	93,133	383	1418
12	Germacrene D	C15H24	161,105	407	1480

\* Benzyl acetate was used as internal Standard; \*\* Retention times are based on the GC-MS under the conditions mentioned in materials and methods; \*\*\* Reference for KI: Adams,R.P. (2007) on DB-5 column.

**Supplementary Table S2.** Summary of Pearson correlation coefficient values between pairwise metabolites.

Pearson correlation coefficient											
	$\beta$ -pinene	$\alpha$ -thujene	Ocimene	Gemacrene-D	$\alpha$ -cubebene	$\alpha$ -phellandrene	$\beta$ -myrcene	O-cymene	$\gamma$ -terpinene	Thymol	$\beta$ -caryophyllene
$\beta$ -pinene	1	0.870**	0.906**	0.870**	0.925**	-0.684**	-0.552**	-0.669**	-0.614**	-0.611**	-0.657**
$\alpha$ -thujene	0.870**	1	0.929**	0.871**	0.909**	-0.587**	-0.483**	-0.573**	-0.528**	-0.514**	-0.563**
Ocimene	0.906**	0.929**	1	0.850**	0.921**	-0.663**	-0.539**	-0.646**	-0.592**	-0.583**	-0.637**
Gemacrene-D	0.870**	0.871**	0.850**	1	0.852**	-0.604**	-0.496**	-0.588**	-0.540**	-0.535**	-0.591**
$\alpha$ -cubebene	0.925**	0.909**	0.921**	0.852**	1	-0.673**	-0.562**	-0.641**	-0.602**	-0.601**	-0.663**
$\alpha$ -phellandrene	-0.684**	-0.587**	-0.663**	-0.604**	-0.673**	1	0.845**	0.854**	0.833**	0.864**	0.886**
$\beta$ -myrcene	-0.552**	-0.483**	-0.539**	-0.496**	-0.562**	0.845**	1	0.808**	0.854**	0.892**	0.868**
O-cymene	-0.669**	-0.573**	-0.646**	-0.588**	-0.641**	0.854**	0.808**	1	0.845**	0.835**	0.805**
$\gamma$ -terpinene	-0.614**	-0.528**	-0.592**	-0.540**	-0.602**	0.833**	0.854**	0.845**	1	0.966**	0.870**
Thymol	-0.611**	-0.514**	-0.583**	-0.535**	-0.601**	0.864**	0.892**	0.835**	0.966**	1	0.932**
$\beta$ -caryophyllene	-0.657**	-0.563**	-0.637**	-0.591**	-0.663**	0.886**	0.868**	0.805**	0.870**	0.932**	1

\*\* Correlation is significant at the 0.01 level (2-tailed).