

Table S1. Effect of year on chemical composition of oregano essential oil. Average values ($\pm$ standard deviation) are shown ($n = 9$).

Compound	2017	2018
α -Thujene	2.10 $\pm$ 0.13	2.21 $\pm$ 0.13
α -Pinene	1.00 $\pm$ 0.12	1.11 $\pm$ 0.13
Sabinene	0.21 $\pm$ 0.07	0.22 $\pm$ 0.04
β -Pinene	0.52 $\pm$ 0.08	0.61 $\pm$ 0.07
β -Myrcene	3.01 $\pm$ 0.13	3.02 $\pm$ 0.13
α -Phellandrene	0.52 $\pm$ 0.07	0.44 $\pm$ 0.09
α -Terpinene	4.10 $\pm$ 0.13	4.22 $\pm$ 0.21
ρ -Cimene	8.10 $\pm$ 0.15	8.11 $\pm$ 0.19
Limonene	1.01 $\pm$ 0.09	1.06 $\pm$ 0.12
1.8-Cineole	0.70 $\pm$ 0.09	0.54 $\pm$ 0.05
β -Z-Ocimene	0.71 $\pm$ 0.08	0.72 $\pm$ 0.08
β -E-Ocimene	0.32 $\pm$ 0.09	0.23 $\pm$ 0.09
γ -Terpinene	24.32 $\pm$ 0.36	25.11 $\pm$ 0.03
<i>cis</i> -Sabinene hydrate	0.82 $\pm$ 0.10	0.87 $\pm$ 0.07
Terpinolene	0.33 $\pm$ 0.09	0.34 $\pm$ 0.11
Linalool	0.71 $\pm$ 0.09	0.62 $\pm$ 0.08
Borneol	0.22 $\pm$ 0.10	0.31 $\pm$ 0.07
Terpinel-4-ol	1.32 $\pm$ 0.10	1.23 $\pm$ 0.12
α -Terpineol	0.42 $\pm$ 0.08	0.43 $\pm$ 0.07
Thymol methyl ether	0.61 $\pm$ 0.08	0.62 $\pm$ 0.07
Carvacrol methyl ether	2.82 $\pm$ 0.14	2.93 $\pm$ 0.16
Thymol	40.01 $\pm$ 0.45	40.03 $\pm$ 0.50
Carvacrol	1.52 $\pm$ 0.14	1.63 $\pm$ 0.19
β -Caryophyllene	0.53 $\pm$ 0.10	0.55 $\pm$ 0.19
α -Humulene	0.32 $\pm$ 0.08	0.33 $\pm$ 0.07
γ -Muurolene	0.33 $\pm$ 0.05	0.28 $\pm$ 0.07
β -Bisabolene	1.41 $\pm$ 0.11	1.52 $\pm$ 0.11
γ -Cadinene	0.32 $\pm$ 0.08	0.33 $\pm$ 0.06
Δ -Cadinene	0.53 $\pm$ 0.08	0.52 $\pm$ 0.09

Table S2. Effect of irrigation water on chemical composition of oregano essential oil.
Average values ($\pm$ standard deviation) are shown ($n = 6$).

Compound	Freshwater	Treated wastewater	Rainfed (control)
α -Thujene	2.10 $\pm$ 0.12	2.11 $\pm$ 0.15	2.08 $\pm$ 0.15
α -Pinene	1.10 $\pm$ 0.12	0.91 $\pm$ 0.10	0.92 $\pm$ 0.10
Sabinene	0.21 $\pm$ 0.05	0.20 $\pm$ 0.05	0.24 $\pm$ 0.05
β -Pinene	0.62 $\pm$ 0.08	0.60 $\pm$ 0.05	0.60 $\pm$ 0.08
β -Myrcene	3.01 $\pm$ 0.08	3.02 $\pm$ 0.17	3.01 $\pm$ 0.12
α -Phellandrene	0.51 $\pm$ 0.05	0.41 $\pm$ 0.08	0.41 $\pm$ 0.08
α -Terpinene	4.21 $\pm$ 0.21	4.11 $\pm$ 0.19	4.09 $\pm$ 0.17
α -Cimene	8.02 $\pm$ 0.14	8.10 $\pm$ 0.22	8.03 $\pm$ 0.19
Limonene	1.12 $\pm$ 0.08	0.91 $\pm$ 0.12	0.93 $\pm$ 0.12
1.8-Cineole	0.60 $\pm$ 0.08	0.64 $\pm$ 0.11	0.61 $\pm$ 0.11
β -Z-Ocimene	0.72 $\pm$ 0.07	0.71 $\pm$ 0.10	0.71 $\pm$ 0.10
β -E-Ocimene	0.30 $\pm$ 0.10	0.32 $\pm$ 0.10	0.31 $\pm$ 0.10
γ -Terpinene	24.40 $\pm$ 0.33	24.31 $\pm$ 0.54	24.45 $\pm$ 0.54
<i>cis</i> -Sabinene hydrate	0.81 $\pm$ 0.05	0.82 $\pm$ 0.08	0.79 $\pm$ 0.08
Terpinolene	0.30 $\pm$ 0.12	0.32 $\pm$ 0.10	0.30 $\pm$ 0.10
Linalool	0.70 $\pm$ 0.06	0.60 $\pm$ 0.01	0.62 $\pm$ 0.06
Borneol	0.22 $\pm$ 0.12	0.21 $\pm$ 0.08	0.23 $\pm$ 0.08
Terpinel-4-ol	1.30 $\pm$ 0.10	1.32 $\pm$ 0.13	1.34 $\pm$ 0.13
α -Terpineol	0.41 $\pm$ 0.08	0.41 $\pm$ 0.08	0.42 $\pm$ 0.08
Thymol methyl ether	0.62 $\pm$ 0.10	0.61 $\pm$ 0.09	0.62 $\pm$ 0.09
Carvacrol methyl ether	2.80 $\pm$ 0.15	2.94 $\pm$ 0.19	2.90 $\pm$ 0.19
Thymol	39.90 $\pm$ 0.63	40.01 $\pm$ 0.26	40.64 $\pm$ 0.25
Carvacrol	1.50 $\pm$ 0.15	1.62 $\pm$ 0.16	1.54 $\pm$ 0.11
β -Caryophyllene	0.51 $\pm$ 0.09	0.62 $\pm$ 0.10	0.63 $\pm$ 0.10
α -Humulene	0.31 $\pm$ 0.05	0.41 $\pm$ 0.05	0.38 $\pm$ 0.05
γ -Muurelone	0.30 $\pm$ 0.05	0.21 $\pm$ 0.05	0.22 $\pm$ 0.05
β -Bisabolene	1.41 $\pm$ 0.14	1.51 $\pm$ 0.15	1.52 $\pm$ 0.15
γ -Cadinene	0.30 $\pm$ 0.08	0.31 $\pm$ 0.08	0.32 $\pm$ 0.08
Δ -Cadinene	0.51 $\pm$ 0.12	0.52 $\pm$ 0.08	0.51 $\pm$ 0.08