

Table S2. Chemical composition at 60 dpi in *Piper divaricatum* leaves inoculated with AMFs and concentrations of P (means \pm standard deviation).

Compound	RI ^a	RI ^b	Control	AMF	P20	P200	P20 + AMF	P200 + AMF
(E)-2-Hexenal	839	846	0.55 \pm 0.12	0.27 \pm 0.33	0.33 \pm 0.13	0.23 \pm 0.18	0.49 \pm 0.15	0.35 \pm 0.23
α -Thujene	928	924	0.01 \pm 0.03					0.05 \pm 0.04
α -Pinene	931	932	1.49 \pm 1.73					1.30 \pm 2.60
Sabinene	969	969	0.01 \pm 0.03					1.36 \pm 2.72
β -Pinene	968	974	1.25 \pm 2.17					0.06 \pm 0.08
Myrcene	982	988	0.11 \pm 0.14	0.03 \pm 0.03	0.05 \pm 0.04		0.08 \pm 0.01	0.22 \pm 0.21
β -Phellandrene	1023	1025	0.54 \pm 0.68		0.03 \pm 0.06			0.64 \pm 0.88
Z- β -Ocimene	1031	1032		0.02 \pm 0.04	0.06 \pm 0.05	0.03 \pm 0.06	0.12 \pm 0.03	0.07 \pm 0.08
E-β-Ocimene	1042	1044	1.62\pm1.27	3.26\pm0.31	3.25\pm0.58	2.74\pm0.23	4.11\pm0.34	2.62\pm1.57
Allo-Ocimene	1130	1128			0.01 \pm 0.03		0.05 \pm 0.01	0.03 \pm 0.04
δ -Elemene	1339	1335			0.04 \pm 0.03		0.04 \pm 0.03	0.09 \pm 0.02
Eugenol	1358	1356	0.26 \pm 0.17		0.49 \pm 0.93	0.21 \pm 0.24	0.09 \pm 0.08	1.13 \pm 0.90
α -Copaene	1379	1374						0.04 \pm 0.04
β-Elemene	1396	1389	5.71\pm0.65	6.97\pm1.29	7.79\pm0.65	7.05\pm0.65	7.78\pm0.96	7.43\pm0.66
Methyl eugenol	1413	1403	84.60\pm4.41	85.42\pm1.80	82.18\pm2.61	85.84\pm0.73	81.80\pm1.56	78.03\pm5.86
E-Caryophyllene	1425	1417	1.71 \pm 0.44	1.89 \pm 0.43	2.58 \pm 0.13	2.03 \pm 0.24	2.58 \pm 0.48	2.69 \pm 0.47
β -Copaene	1434	1430	0.02 \pm 0.04	0.08 \pm 0.06	0.15 \pm 0.02	0.08 \pm 0.01	0.15 \pm 0.02	0.08 \pm 0.09

Table S2. Continuation

Guaia-6-9-diene	1436	1442						0.10±0.12
α -Humulene	1459	1452	0.04±0.05	0.09±0.10	0.24±0.05	0.14±0.04	0.23±0.04	0.30±0.08
Germacrene D	1487	1484	0.97±0.43	1.47±0.34	1.88±0.20	1.44±0.31	1.78±0.21	2.10±0.35
(E)-Methyl-isoeugenol	1499	1491	0.03±0.04					0.04±0.08
Bicyclogermacrene	1502	1500			0.09±0.07		0.08±0.03	0.13±0.02
Eugenol acetate	1529	1521			0.06±0.12	0.03±0.03		0.16±0.12
Elemicin	1559	1555	0.20±0.06	0.27±0.05	0.32±0.08	0.17±0.04	0.33±0.05	0.55±0.17
Monoterpene hydrocarbons			5.03±6.04	3.31±0.38	3.4±0.74	2.77±0.28	4.36±0.39	6.33±8.21
Sesquiterpene hydrocarbons			8.45±1.61	10.49±2.22	12.77±1.14	10.73±1.26	12.63±1.78	12.95±1.85
Phenylpropanoids			85.17±4.69	85.69±1.86	83.05±3.73	86.25±1.04	82.21±1.69	79.89±7.11
Others			0.55±0.12	0.27±0.33	0.33±0.13	0.23±0.18	0.49±0.15	0.35±0.23
Total			99.21±12.46	99.75±4.79	99.55±5.75	99.98±2.76	99.69±4.00	99.52±17.41

RI^a: Retention index calculated; **RI**^b: Retention Index of Library. **Control**: (control *P. divaricatum*); **AMF**: (*P. divaricatum* inoculated with AMF); **P20**: (*P. divaricatum* with 20 mg of P.dm⁻³ of soil); **P200**: (*P. divaricatum* with 200 mg of P.dm⁻³ of soil); **P20 + AMF**: (*P. divaricatum* inoculated with AMF and 20 mg of P.dm⁻³ of soil); **P200 + AMF**: (*P. divaricatum* inoculated with AMF and 200 mg of P.dm⁻³ of soil). * Statistical difference according to Bonferroni-test ($p < 0.05$).