

Table S1: Meteorological data analysis in the sampling period

Meteorological parameters	Studied sites		
	Zaafrane (ZA)	Sal rocket (SR)	Boughzoul (BG)
M	21,48167	21,45417	21,79083
m	8.923333	8.73	9.037917
T°moy	15.2025	14.9075	15.41433
PP	20.99167	26.60283	17.25583
PP/T	1.380804	1.784527	1.119467
K	13.80804	17.84527	11.19467
IDM	13.31161	17.04399	10.87672

IDM: aridity index of De Martonne, K: hydrothermal coefficient of Sielianinov, PP/T: average of hygrometry; PP: cumulated of daily precipitation (mm), T: average of mean air temperatures (°C), M: maximum temperature in the sampled season. m: minimum temperature in the sampled season.

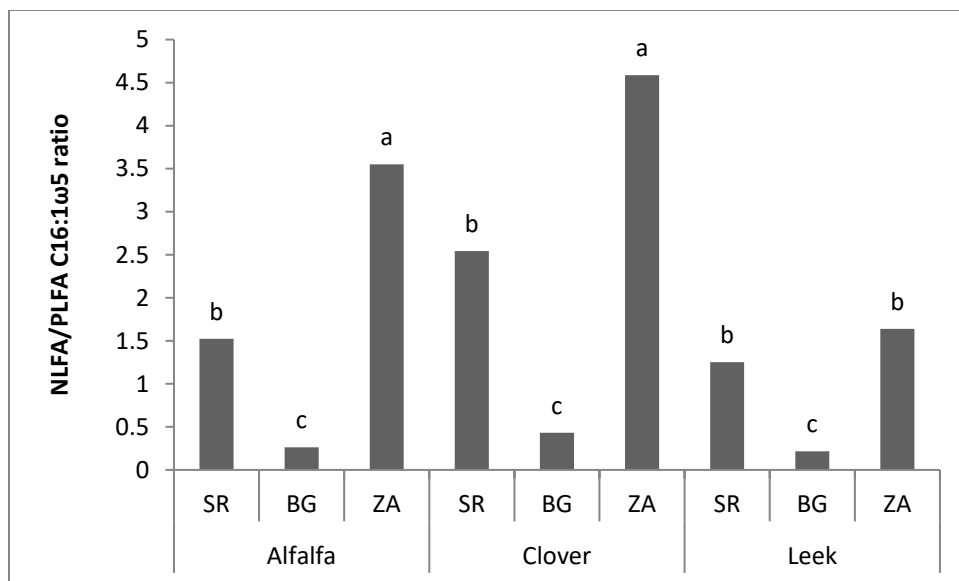


Figure. S1: NLFA/ PLFA C16:1ω5 ratio for the studied soils under the three host plants.

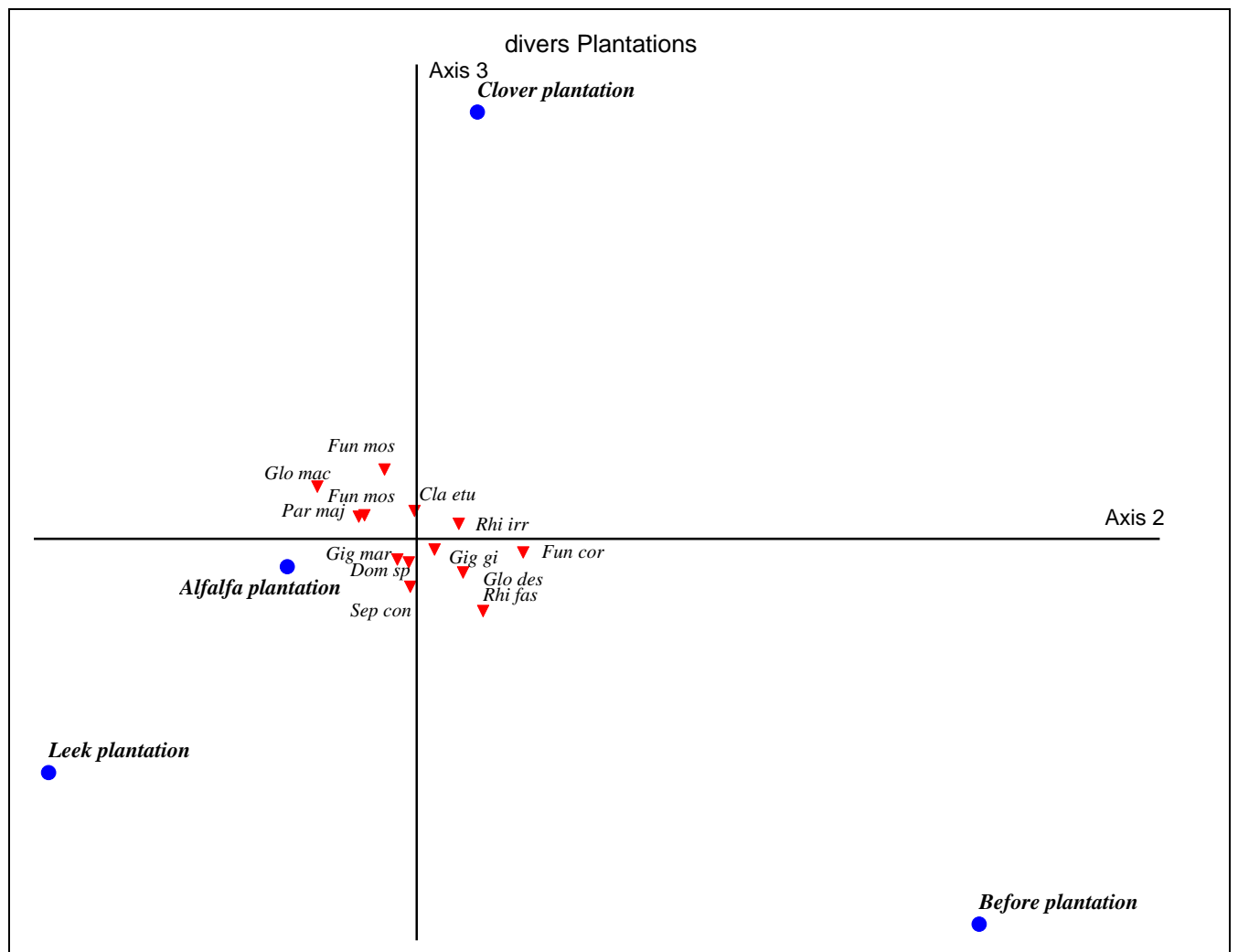


Figure S2: Detrended correspondence analysis (DCA) ordination between AMF species and the three studied host plants (alfalfa, clover and leek).

Alfalfa host plant : 15 pots	PA ZA1	PA ZA2	PA ZA3	PAZA4	PA ZA5
	PA SR1	PA SR2	PA SR	PA SR4	PA SR5
	PA BG1	PA BG2	PA BG3	PABG4	PA BG5

Clover host plant : 15 pots	PC ZA1	PC ZA2	PC ZA3	PC ZA4	PC ZA5
	PC SR1	PC SR2	PC SR3	PC SR4	PC SR5
	PC BG1	PC BG2	PC BG3	PC BG4	PC BG5

Leek host plant : 15 pots	PLE ZA1	PLE ZA2	PLE ZA3	PLE ZA4	PLE ZA5
	PL SR1	PL SR2	PL SR3	PL SR4	PL SR5
	PLE BG5	PLE BG2	PLE BG3	PLE BG4	PLE BG5

Figure S3: Experimental design of trap cultures with the three studied saline soils (ZA: Zaafrane, SR: Salt rocket; BG: Boughzoul) with the three host plants: alfalfa, clover and leek. (PA: alfalfa plant; PC: Clover plant, PLE: leek plant).