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Solutions for soil fertility management to overcome the challenges of the Mediterranean organic agriculture: tomato plant case study

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Supplementary material

Table S1. Main nutrient content of organic and mineral fertilizers

EO, Enne-Otto; PX, Phoenix; GN, Guanito; FT, Fosforite; KS, Kalisop

Fertilizers	N	P ₂ O ₅	K ₂ O	CaO	MgO	Fe	Manufacturer
	(%)						
EO	8	-	-	18	1	0.1	Nuova Concimer s.r.l (Italy)
PX	6	8	15	4	3	0.8	Italpollina SPA (Italy)
GN	6	15	3	10	2	0.8	Italpollina SPA (Italy)
FT	-	27	-	49	8	0.1	Sacom SPA agricoltura (Italy)
KS	-	-	50	0.9	5	0.2	K+S KALI GmbH (Germany)

Table S2. Doses applied in each treatment expressed as C, N, P₂O₅ and K₂O

CON, control; BCH, biochar; OF, organic fertilizer; MVC, cattle manure and vineyard wood compost; DVC, dairy wastes industry and vineyard wood compost; SVC, solid poultry slaughterhouse wastes and vineyard wood compost; SF, supplementary fertilizers

Treatments	Pre-planting				Fertilization scenarios	Side-dressing		
	C	N	P ₂ O ₅	K ₂ O		N	P ₂ O ₅	K ₂ O
	(kg/ha)					(kg/ha)		
CON	-	-	-	-	CON	-	-	-
BCH	3786	-	-	-	BCH	-	-	-
OF	340	68	120	120	OF+SF1	52	-	-
BCH + OF	340	68	120	120	(BCH+OF)+SF1	52	-	-
MVC	750	91	60	104	MVC+SF2	29	60	16
DVC	750	53	16	17	DVC+SF3	67	104	103
SVC	750	66	36	26	SVC+SF4	54	84	94

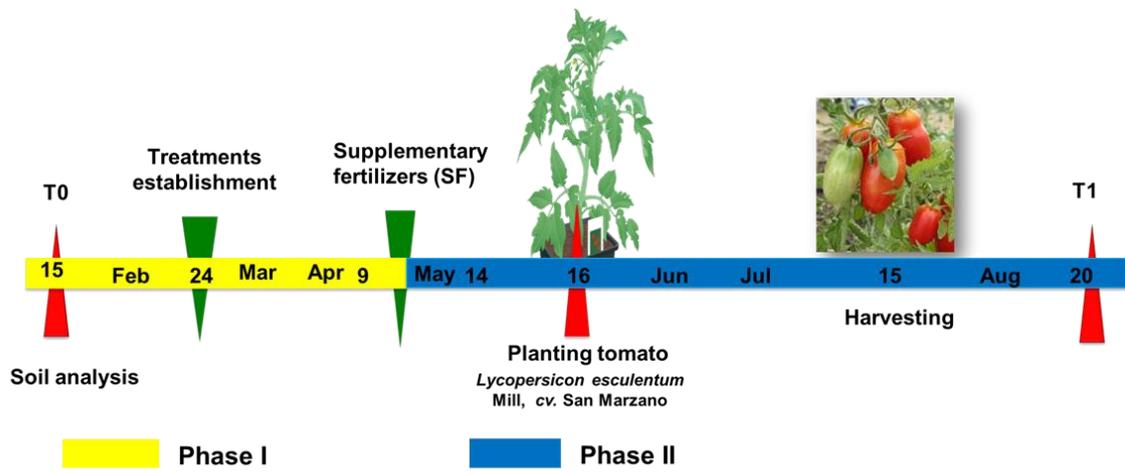


Figure S1. Timing of research activities.