Supplementary material*: Daucus carota* L. Seed Inoculation with a Consortium of Bacteria Improves Plant Growth, Soil Fertility Status and Microbial Community

Marika Pellegrini [1,†], Giancarlo Pagnani [1,2,†], Massimiliano Rossi [3,†], Sara D'Egidio [2], Maddalena Del Gallo [1,*] and Cinzia Forni [3]

[1] Department of Life, Health and Environmental Sciences, University of L'Aquila, 67100 L'Aquila, Italy; marika.pellegrini@univaq.it (M.P.); gpagnani@unite.it (G.P.)
[2] Faculty of Bioscience and Technologies for Food, Agriculture and Environment, University of Teramo, 64100 Teramo, Italy; sdegidio@unite.it
[3] Department of Biology, University of Rome "TorVergata", 00133 Roma, Italy; massimiliano87rossi@gmail.com (M.R.); forni@uniroma2.it (C.F.)
* Correspondence: maddalena.delgallo@univaq.it
† These authors contributed equally

Table S1. Filtered Read Paired-End(PE), raw and post-QualityCheck(QC) amplicons (non-chimeric) obtained for Control and SIB (seed inoculated with bacteria) samples.

Sample	Filtered Read PE	Amplicon	non-chimeric Amplicon
Control	29321	7502	7206
SIB	23829	6944	6486

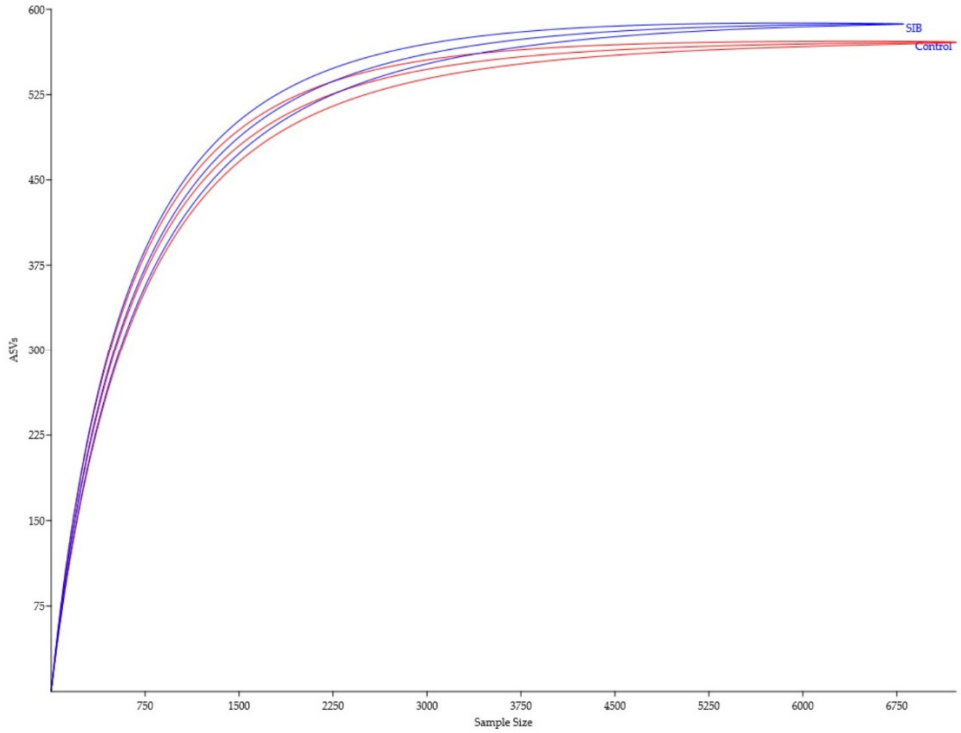

Figure S1. Alpha diversity rarefaction curves of the microbial richness of Control and SIB samples according to their respective Sample Size. Alpha diversity rarefaction curve was obtained by PAST 4.03.

Table S2. Distribution of microbial taxa (%) within Control and SIB (seed inoculated with bacteria) soils. Data were processed by excluding the abundances of ASVs < 1%.

Phylum	Class	Order	Family	Genus	Control	SIB
Acidobacteria	Acidobacteriia	Solibacterales	Solibacteraceae (Subgroup 3)	*Bryobacter*	3.15	2.58
	Blastocatellia (Subgroup 4)	Pyrinomonadales	Pyrinomonadaceae	*RB41*	1.11	5.59
	Subgroup 6	Unknown	Unknown	Unknown	4.64	3.12
Actinobacteria	Acidimicrobiia	Uncultured	Unknown	Unknown	2.22	-
	Actinobacteria	Micrococcales	Micrococcaceae	*Pseudarthrobacter*	2.25	2.26
	Actinobacteria	Propionibacteriales	Nocardioidaceae	*Marmoricola*	2.58	2.72
Bacteroidetes	Bacteroidia	Cytophagales	Hymenobacteraceae	*Adhaeribacter*	1.95	-
				Pontibacter	2.22	3.19
			Microscillaceae	Uncultured	2.73	3.01
		Flavobacteriales	Flavobacteriaceae	*Flavobacterium*	10.75	1.00
			Weeksellaceae	*Chryseobacterium*	3.83	6.10
		Sphingobacteriales	Sphingobacteriaceae	*Sphingobacterium*	4.37	3.37
				Unknown	2.85	1.61
Chloroflexi	Anaerolineae	Anaerolineales	Anaerolineaceae	Unknown	0.36	3.66
	KD4-96	Unknown	Unknown	Unknown	1.86	2.80
Firmicutes	Bacilli	Bacillales	Bacillaceae	*Bacillus*	2.07	-
Gemmatimonadetes	Gemmatimonadetes	Gemmatimonadales	Gemmatimonadaceae	*Gemmatimonas*	3.21	11.87
				Uncultured	13.00	-
				Unknown	2.82	1.58
	Longimicrobia	Longimicrobiales	Longimicrobiaceae	Uncultured	2.22	18.32
Nitrospirae	Nitrospira	Nitrospirales	Nitrospiraceae	*Nitrospira*	2.70	2.65
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	*Sphingomonas*	12.07	7.71
	Gammaproteobacteria	Betaproteobacteriales	Burkholderiaceae	*Hydrogenophaga*	3.33	5.23
				Massilia	2.58	2.15
			Nitrosomonadaceae	*MND1*	4.04	3.59
		Xanthomonadales	Xanthomonadaceae	*Lysobacter*	2.82	3.23
				Stenotrophomonas	2.31	2.65