

**Table S1.** OTUs' Diversity Indices for bacterial and fungal reads (S.E  $n = 3$ ).

	Treatment	OTUs Number	Ace	Chao richness estimator	Shannon diversity index	Simpson
Bacteria	RGS0	2451±20	3047±36	3027±19	6.43±0.02	0.006±0.0006
	RGS1	2450±14	3010±39	2987±45	6.38±0.12	0.01±0.0002
	RGS2	2484±32	2945±10	2964±91	6.61±0.02	0.003±0.0002
	RGS3	2419±42	2976±61	3008±87	6.29±0.16	0.014±0.008
Fungi	RGS0	186±23	242±16	228±20	1.63±0.22	0.452±0.12
	RGS1	179±12	219±2	212±5	1.37±0.14	0.569±0.03
	RGS2	198±12	251±4	241±8	2.05±0.48	0.298±0.11
	RGS3	182±16	221±18	218±18	1.85±0.08	0.292±0.16

**Table 2.** Characteristics of basic soil and RGS used in the experiment (S.E  $n = 3$ ).

Original soil properties	Garlic stalk properties
Soil Type	Brown -loamy-alkaline-Orthic Anthrosol
pH	7.75 ± 0.5
EC ( $\mu\text{S cm}^{-1}$ )	383 ± 6
Organic Carbon ( $\text{g.kg}^{-1}$ )	15.13 ± 0.9
Total Nitrogen ( $\text{g.kg}^{-1}$ )	1.14 ± 0.06
C:N	13.42 ± 0.8
Organic Matter ( $\text{g.kg}^{-1}$ )	12.97 ± 0.5
Total Phosphorus ( $\text{g.kg}^{-1}$ )	639.25 ± 12.5
Total Potassium ( $\text{g.kg}^{-1}$ )	12.87 ± 1.5
Available N ( $\text{mg.kg}^{-1}$ )	0.19 ± 0.05
Available P ( $\text{mg.kg}^{-1}$ )	-
Available K ( $\text{mg.kg}^{-1}$ )	-
Soil Planting History	Eggplant continuously planted for four years