

Supplementary information

Impact of Silver Nanoparticles on Arbuscular Mycorrhizal Fungi and Glomalin-Related Soil Proteins in the Rhizosphere of Maize Seedlings

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Table S1 Relative abundances of AM fungi at family level under different concentrations of AgNPs

AgNPs (mg kg ⁻¹)	Scutellosporaceae	Unclassified AM fungi
0	0.16±0.04	4.27±0.29 a
1	0.14±0.01	4.77±1.98 a
5	ND	5.44±1.64 a
10	ND	2.83±1.57 a
20	ND	2.74±2.65 a

Values are mean±SD. Same letters indicate no significant differences ($P>0.05$). ND: not detected.

Table S2 Correlations between soil GRSP contents and the AM fungal community composition and AM fungal groups

Matrix	Community composition ^a	Diversity ^b	Glomeraceae	Acaulosporaceae
EE-GRSP	0.711**	0.772**	0.623*	-0.694*
DE-GRSP	-0.001	0.042	0.020	0.079
T-GRSP	0.623*	0.695**	0.556*	-0.576*

a: PCoA axis1; b: PD; Significant values were shown in bold. *, $P < 0.05$; **, $P < 0.01$

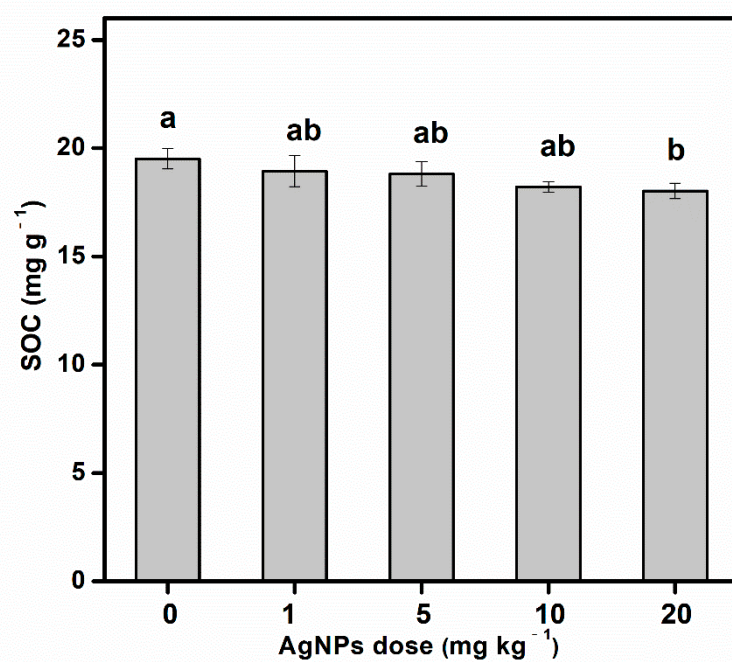


Figure S1 Soil organic carbon content under different concentrations of AgNPs. Different letters indicate significant differences among treatments ($p < 0.05$).

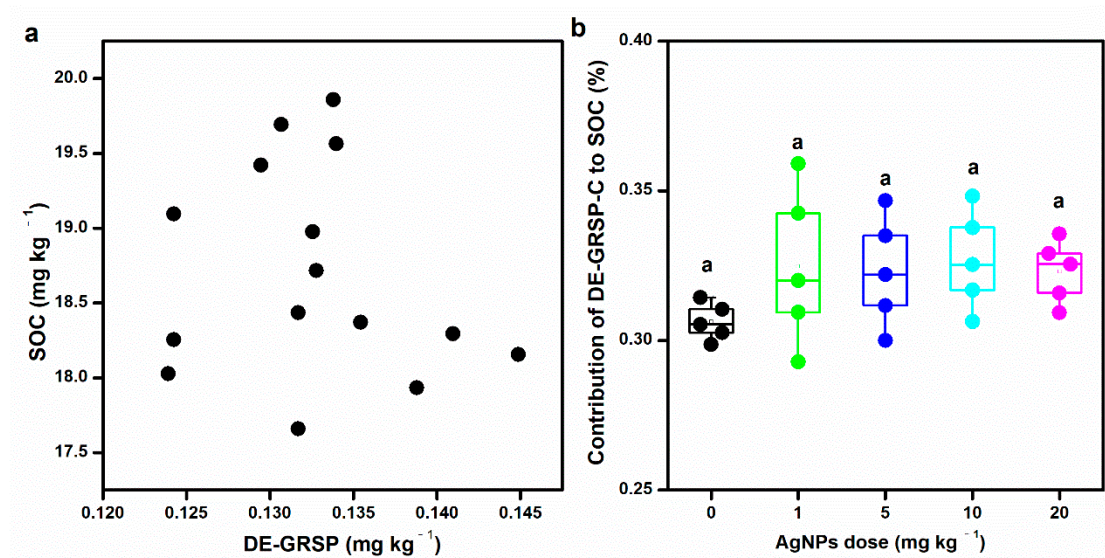


Figure S2 Relationship between soil difficult extract glomalin-related soil protein (DE-GRSP) and soil organic carbon (SOC) (a) and contribution of DE-GRSP to SOC (b).

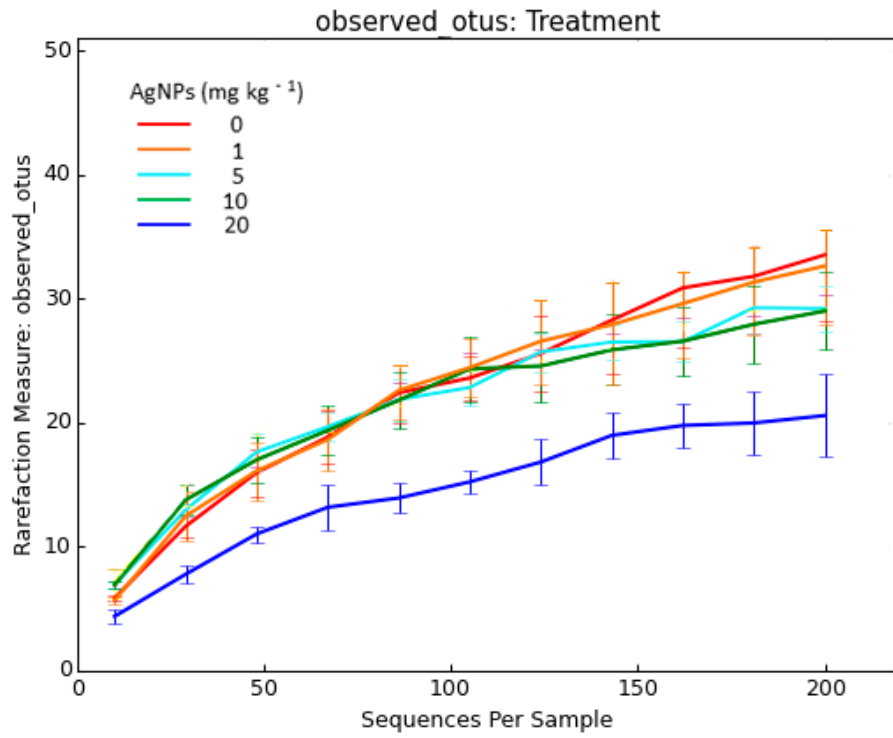


Figure S3 Rarefaction curves of observed soil arbuscular mycorrhizal fungal OTUs under different concentrations of AgNPs.