

**Unraveling the linkages between dominant plants and pathogen antagonistic potential of soils in
Antarctic terrestrial ecosystems**

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Table S1 Description of the experimental site with latitude and longitude values. Abbreviations: B, bulk soil; M, mosses; V, grasses; Elev, elevation; m, meter.

Sampling Site	Latitude (S)	Longitude (W)	Elev. (m)	Plant Type
Site 1	62.200164	58.993939	29	B, M, V
Site 2	62.211636	59.013275	38	B, M, V
Site 3	62.197136	58.946508	49	B, M, V

Table S2 Hypothesis liable for the structural equation model (Pathways referred to Fig. S1).

Number	Reference
Pathway 1	(Mendes et al. 2011), (Latz et al. 2016), (Latz et al. 2012)
Pathway 2	(Janvier et al. 2007)
Pathway 4-3	(Bueno et al. 2016), (Benavent-González et al. 2018)
Pathway 4-6	(Tian and Li 2017), (Opelt and Berg 2004)
Pathway 5-3	(Latz et al. 2016), (Lange et al. 2014), (Pérès et al. 2013)
Pathway 5-6	(Latz et al. 2012), (Eisenhauer et al. 2010), (Latz et al. 2016)

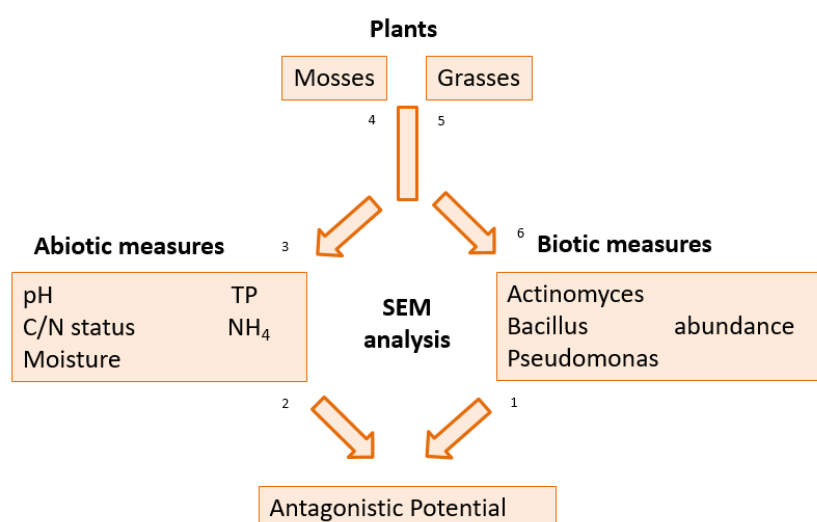


Fig. S1 The conceptual figure of structural equation models shows that plant community composition may affect bacterial antagonistic potential via soil abiotic and biotic measures. Numbers (1,2,3...) near each arrow represent pathways. Abbreviations: C/N, carbon/nitrogen ratio; TP, total phosphorus; NH_4^+ , ammonium; SEM, structure equation modeling

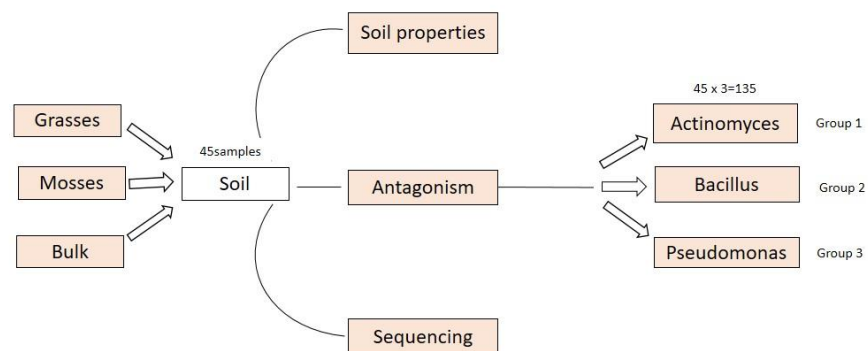


Fig. S2 Flow chart for soil distribution. Abbreviations: Actino, *Actinomyces*; Pseudo, *Pseudomonas*; Strept, *Streptomyces spp*; R.solani, *Rhizoctonia solani*

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