Table S1 The air temperature and humidity of the sampling site in different seasons

Season	Air temperature(℃)	Air humidity(%)
Spring	23.3	77
Summer	31.4	80
Autumn	25.1	73
Winter	8.2	70

Table S2 Differential abundance of indicator bacteria genera between diseased plants and healthy plants in the same season (DeSEQ2 test).

Group	Taxa	Log2 Fold Change DR vs. HR (SE)	Test statistic	p-value
Spring	*Edaphobacter*_sp	1.76 (0.43)	4.11	<0.01*
	*Haemophilus*_sp	8.43 (2.34)	3.61	<0.01*
	*Kibdelosporangium*_sp	-2.79 (0.68)	-4.14	<0.01*
Summer	*Haliangium*_sp	3.87 (1.66)	2.33	0.02*
	Candidatus_*Udaeobacter*_sp	5.14 (1.53)	3.37	<0.01*
	*Bradyrhizobium*_sp	0.71 (0.50)	1.41	0.16
Autumn	*Edaphobacter*_sp	2.99 (0.65)	4.63	<0.01*
	*Acidothermus*_sp	4.33 (0.85)	5.08	<0.01*
	*Candidatus_Udaeobacter*_sp	6.45 (1.12)	5.78	<0.01*
	*Amycolatopsis*_sp	-4.24 (0.51)	-8.33	<0.01*
	*Tetrasphaera*_sp	-3.51 (0.87)	-4.05	<0.01*
Winter	*Kibdelosporangium*_sp	-1.28 (3.12)	-0.41	0.68
	*Haliangium*_sp	2.65 (1.50)	1.77	0.08

*p<0.05, significant.

Table S3 Differential abundance of indicator fungus genera between between diseased plants and healthy plants in the same season (DeSEQ2 test).

Group	Taxa	Log2 Fold Change DR vs. HR(SE)	Test statistic	*p*-value
Spring	*Marasmiellus*_sp	-4.5 (1.33)	-3.39	<0.01*
	*Mycena*_sp	6.83 (1.49)	4.59	<0.01*
	*Serendipita*_sp	6.86 (1.29)	5.32	<0.01*
Summer	*Marasmiellus*_sp	13.02 (0.94)	13.79	<0.01*
	*Exophiala*_sp	3.62 (1.71)	2.11	0.03*
	*Fusarium*_sp	4.26 (3.02)	1.41	<0.01*
Autumn	*Marasmiellus*_sp	-2.64 (1.66)	-1.59	0.11
	*Mycena*_sp	0.18 (3.10)	0.03	0.95
	*Cladophialophora*_sp	0.55 (3.10)	0.18	0.86
Winter	*Marasmiellus*_sp	-1.3 (3.10)	-0.42	0.68
	*Claroideoglomus*_sp	-0.97 (3.09)	-0.31	0.75
	*Serendipita*_sp	3.34 (1.47)	2.26	0.02*

*p<0.05, significant.