

Table S1 Numbers of ophiostomatoid fungal isolates obtained from different mite species in this study

Taxon	Host tree species →		<i>Pinus kesiya</i>											Total	
	Fungal species↓	Mite species ¹ →	a	b	c	d	e	f	g	h	i	j	k		m
1.	<i>Sporothrix</i> sp. A		0	0	0	0	0	0	0	1	0	0	0	0	1
2.	<i>S. nebularis</i>		6	0	8	17	0	0	1	0	4	0	0	0	36
3.	<i>Ophiostoma acarorum</i> sp. nov.		0	0	21	2	0	0	0	0	0	0	0	2	25
4.	<i>O. ips</i>		7	0	7	28	0	1	2	4	0	0	0	3	52
5.	<i>Ophiostoma</i> sp. B		0	0	0	0	0	0	0	0	0	0	0	0	0
6.	<i>O. brevopilosi</i> sp. nov.		0	0	0	0	0	0	0	0	0	0	0	0	0
7.	<i>O. setosum</i>		0	0	0	0	0	0	0	0	0	0	0	0	0
8.	<i>O. quercus</i>		0	0	7	4	0	0	0	0	0	0	2	0	13
9.	<i>O. tsotsi</i>		0	0	6	0	0	0	0	0	0	0	0	2	8
10.	<i>Ophiostoma</i> sp. C		0	0	0	0	0	0	0	0	0	0	0	0	0
11.	<i>Graphilbum fragrans</i>		0	0	0	0	0	0	0	0	0	0	0	0	0
12.	<i>Gra. kesiya</i> sp. nov.		0	0	0	5	0	1	0	0	0	0	0	0	6
13.	<i>Gra. puer</i> sp. nov.		0	0	0	1	0	1	0	0	0	0	1	0	3
14.	<i>Leptographium gracile</i>		0	0	0	0	0	0	0	0	0	0	0	0	0
15.	<i>Grosmannia radiaticola</i>		0	0	0	0	0	0	0	0	0	0	0	0	0
16.	<i>L. ningerense</i> sp. nov.		3	6	0	2	0	0	0	1	0	0	0	0	12
17.	<i>Gro. yunnanensis</i>		6	0	0	12	1	1	0	0	0	5	1	1	27
18.	<i>L. conjunctum</i>		0	0	0	0	0	0	0	0	0	0	0	0	0
19.	<i>Graphium pseudormiticum</i>		0	0	0	1	0	0	0	0	0	0	0	0	1
Total			22	6	49	72	1	4	3	6	4	5	4	8	184

¹ Mite species: a = *Dendrolaelaps* sp. 1 (Mesostigmata, Digamasellidae); b = *Dendrolaelaps* sp. 2 (Mesostigmata, Digamasellidae); c = *Histiostoma. cf. sapromyzaarum* (Sarcoptiformes, Histiostomatidae); d = *Insectolaelaps* sp. 1 (Mesostigmata, Digamasellidae); e = *Lasioseius* sp. 1 (Mesostigmata, Blattisociidae); f = *Proctolaelaps nr. Hystrix* (Mesostigmata, Melicharidae); g = *Rhizoglyphus* sp. 1 (Sarcoptiformes, Acaridae); h = *Schwiebea taiwanensis* (Sarcoptiformes, Acaridae); i = Unknown sp. 1 (Mesostigmata); j = Unknown sp. 2 (Oribatei); k = Unknown sp. 3 (Mesostigmata, Uropodoidea); l = Unknown sp. 4 (Mesostigmata); m = Unknown sp. 5

Table S2 Haplotypes of *Ophiostoma quercus*. Numbers of isolates originating from China are printed in bold type.

Isolate	ITS ACC ¹	ITS HAP ²	BT ACC ³	BT HAP ⁴	EF ACC ⁵	EF HAP ⁶	COMB ⁷
CMW2467*	AY466626	HQI1	AY466647	HQB1	AY466693	HQE1	HQIBE1
CMW11747	=AF198238	HQI2	=FJ455565	HQB2	MG205736	HQE2	HQIBE2
CMW11748	=AF198238	HQI2	=FJ455565	HQB2	=MG205736	HQE2	HQIBE2
CMW11756	MG205662	HQI3	MG205692	HQB3	MG205737	HQE3	HQIBE3
CMW11806	=FJ434947	HQI4	=FJ455565	HQB2	MG205738	HQE4	HQIBE4
CMW11807	=FJ434947	HQI4	=AY466647	HQB1	=MG205738	HQE4	HQIBE5
CMW11981	=FJ434947	HQI4	=FJ455570	HQB4	MG205739	HQE5	HQIBE6
CMW12015	=AY466624	HQI5	MG205693	HQB5	MG205740	HQE6	HQIBE7
CMW12037	=AY466624	HQI5	MG205694	HQB6	MG205741	HQE7	HQIBE8
CMW12039	=FJ434947	HQI4	MG205695	HQB7	MG205742	HQE8	HQIBE9
CMW12122	=FJ434947	HQI4	MG205696	HQB8	MG205743	HQE9	HQIBE10
CMW12146	=FJ434947	HQI4	=MG205696	HQB8	=MG205743	HQE9	HQIBE10
CMW12185	=FJ434947	HQI4	MG205697	HQB9	=MG205740	HQE6	HQIBE11
CMW12195	=FJ434947	HQI4	=MG205697	HQB9	=MG205740	HQE6	HQIBE11
CMW12286	=AF198238	HQI2	=FJ455570	HQB4	MG205744	HQE10	HQIBE12
CMW12286	=FJ434947	HQI4	=FJ455570	HQB4	MG205751	HQE11	HQIBE13
CMW12287	FJ434947	HQI4	FJ455563	HQB10	=MG205740	HQE6	HQIBE14
CMW12294	=AF198238	HQI2	=FJ455570	HQB4	MG205752	HQE12	HQIBE15
CMW12295	FJ434944	HQI4	FJ455560	HQB11	MG205753	HQE13	HQIBE16
CMW12299	=FJ434947	HQI4	=FJ455570	HQB4	=MG205740	HQE6	HQIBE17
CMW12332	FJ434948	HQI4	FJ455565	HQB2	=MG205740	HQE6	HQIBE18
CMW12350	=FJ434947	HQI4	MG205698	HQB12	MG205745	HQE14	HQIBE19
CMW12354	=FJ434947	HQI4	=FJ455570	HQB4	MG205754	HQE15	HQIBE20
CMW12357	=AF198238	HQI2	=FJ455570	HQB4	=MG205740	HQE6	HQIBE21
CMW12359	=AF198238	HQI2	=FJ455570	HQB4	MG205746	HQE11	HQIBE12
CMW12359	=AF493241	HQI6	=FJ455570	HQB4	=MG205742	HQE8	HQIBE22
CMW12360	=FJ434947	HQI4	=MG205696	HQB8	=MG205740	HQE6	HQIBE23
CMW12364	=AF198238	HQI2	MG205699	HQB13	MG214780	HQE16	HQIBE24
CMW12370	=AF198238	HQI2	=MG205698	HQB12	MG205747	HQE17	HQIBE25
CMW12371	FJ434952	HQI4	FJ455570	HQB4	=MG205752	HQE12	HQIBE26
CMW12382	=AF198238	HQI2	=FJ455570	HQB4	MG205748	HQE18	HQIBE27
CMW17585	=AF493241	HQI6	=HM041866	HQB14	=FJ441267	HQE19	HQIBE28
CMW19192	MG205663	HQI12	GQ249310	HQB15	FJ441267	HQE19	HQIBE29
CMW2463	AF493239	HQI9	AY466644	HQB1	AY466690	HQE20	HQIBE30
CMW24638	=FJ434947	HQI4	HM041866	HQB14	HM041898	HQE21	HQIBE31
CMW2464	AY466624	HQI5	AY466645	HQB16	AY466691	HQE22	HQIBE32
CMW24643	=FJ434947	HQI4	HM041868	HQB14	HM041900	HQE23	HQIBE33
CMW2465	AY466625	HQI10	AY466646	HQB1	AY466692	HQE24	HQIBE34
CMW2520	AF493241	HQI6	AY466648	HQB17	AY466694	HQE25	HQIBE35
CMW27058	HM051398	HQI5	HM041859	HQB18	=HM041900	HQE23	HQIBE36
CMW27172	=FJ434947	HQI4	MG205702	HQB7	=HM041898	HQE21	HQIBE37
CMW27173	HM051397	HQI4	HM041856	HQB14	HM041897	HQE23	HQIBE38
CMW27192	HM051399	HQI4	HM041858	HQB17	HM041893	HQE21	HQIBE39
CMW29734	HM051407	HQI4	HM041862	HQB19	HM041896	HQE23	HQIBE40
CMW3119	AF493244	HQI6	AY466650	HQB17	AY466696	HQE26	HQIBE41
CMW41659	MG205664	HQI7	MG205700	HQB22	MG205749	HQE27	HQIBE49
CMW41693	=MG205664	HQI7	=MG205700	HQB22	=MG205749	HQE27	HQIBE49

CMW41715	=MG205664	HQI7	=MG205700	HQB22	=MG205749	HQE27	HQIBE49
CMW41718	=MG205664	HQI7	=MG205700	HQB22	=MG205749	HQE27	HQIBE49
CMW41724	MG205665	HQI8	MG205701	HQB23	MG205750	HQE28	HQIBE50
CMW41732	=MG205664	HQI7	=MG205700	HQB22	=MG205749	HQE27	HQIBE49
CMW5679	HQ131894	HQI11	HQ131893	HQB1	FJ441265	HQE19	HQIBE42
CMW7650	AF198238	HQI2	AY466651	HQB1	AY466697	HQE26	HQIBE43
CMW9255	AY466612	HQI1	AY466632	HQB20	AY466678	HQE1	HQIBE44
CMW9257	AY466614	HQI1	AY466634	HQB16	AY466680	HQE26	HQIBE45
CMW9262	AY466617	HQI1	AY466637	HQB18	AY466683	HQE26	HQIBE46
CMW9267	AY466619	HQI1	AY466639	HQB20	AY466685	HQE20	HQIBE47
CMW9474	AY466620	HQI1	AY466640	HQB21	AY466686	HQE26	HQIBE48

¹ ITS ACC: ITS GenBank accession number

² ITS HAP: Haplotypes based on the ITS sequences

³ BT ACC: BT GenBank number

⁴ BT HAP: Haplotypes based on the BT sequences

⁵ EF ACC: EF GenBank number

⁶ EF HAP: Haplotypes based on the EF sequences

⁷ COMB: Haplotypes based on the combination of ITS, BT and EF sequences

* Ex-type isolate

Table S3 Haplotypes of *Ophiostoma tsotsi*. Numbers of isolates originating from China are printed in bold type.

Strains	ITS ACC ¹	ITS HAP ²	BT ACC ³	BT HAP ⁴	EF ACC ⁵	EF HAP ⁶	COMB ⁷
CMW3117*	FJ441284	HTI1	FJ441277	HTB1	FJ441269	HTE1	HTIBE1
CMW15239	FJ441287	HTI1	FJ441280	HTB2	MG205757	HTE8	HTIBE2
CMW16779	FJ441288	HTI1	FJ441281	HTB3	FJ441273	HTE2	HTIBE3
CMW17573	=FJ441284	HTI1	FJ441255	HTB3	=FJ441273	HTE2	HTIBE3
CMW17606	=FJ441284	HTI1	FJ441256	HTB4	=FJ441270	HTE3	HTIBE4
CMW17618	=FJ441284	HTI1	FJ441257	HTB5	MG205758	HTE4	HTIBE5
CMW17682	=FJ441284	HTI1	=FJ441256	HTB4	MG205759	HTE5	HTIBE6
CMW17686	=FJ441284	HTI1	=FJ441255	HTB3	MG205760	HTE6	HTIBE7
CMW18134	FJ441289	HTI1	FJ441282	HTB3	FJ441274	HTE7	HTIBE8
CMW24802	=FJ441284	HTI1	FJ441258	HTB6	=FJ441269	HTE1	HTIBE9
CMW24806	=FJ441284	HTI1	FJ441259	HTB7	=FJ441269	HTE1	HTIBE10
CMW24813	=FJ441284	HTI1	FJ441260	HTB6	=FJ441269	HTE1	HTIBE9
CMW24822	=FJ441284	HTI1	FJ441263	HTB8	=FJ441269	HTE1	HTIBE11
CMW24954	=FJ441284	HTI1	MG205706	HTB9	=FJ441270	HTE3	HTIBE12
CMW24978	=FJ441284	HTI1	MG205707	HTB10	MG205761	HTE9	HTIBE13
CMW24982	=FJ441284	HTI1	MG205708	HTB11	=MG205761	HTE9	HTIBE14
CMW24983	=FJ441284	HTI1	=FJ441257	HTB5	=FJ441270	HTE3	HTIBE15
CMW24988	=FJ441284	HTI1	=MG205706	HTB9	=MG205761	HTE9	HTIBE16
CMW25042	=FJ441284	HTI1	=FJ441257	HTB5	=FJ441270	HTE3	HTIBE15
CMW3116	FJ441285	HTI1	FJ441278	HTB12	FJ441270	HTE3	HTIBE17
CMW41730	=FJ441284	HTI1	MG205704	HTB13	MG205755	HTE10	HTIBE18
CMW41731	=FJ441284	HTI1	MG205705	HTB14	MG205756	HTE11	HTIBE19
CMW41733	=FJ441284	HTI1	=MG205704	HTB13	=MG205755	HTE10	HTIBE18
CMW41734	=FJ441284	HTI1	=MG205704	HTB13	=MG205755	HTE10	HTIBE18
CMW41735	=FJ441284	HTI1	=MG205704	HTB13	=MG205755	HTE10	HTIBE18
CMW41742	=FJ441284	HTI1	=MG205705	HTB14	=MG205756	HTE11	HTIBE19
CMW41746	=FJ441284	HTI1	=MG205704	HTB13	=MG205755	HTE10	HTIBE18
CMW41758	=FJ441284	HTI1	=MG205705	HTB14	=MG205756	HTE11	HTIBE19

¹ ITS ACC: ITS GenBank accession number² ITS HAP: Haplotypes based on the ITS sequences³ BT ACC: BT GenBank number⁴ BT HAP: Haplotypes based on the BT sequences⁵ EF ACC: EF GenBank number⁶ EF HAP: Haplotypes based on the EF sequences⁷ COMB: Haplotypes based on the combination of ITS, BT and EF sequences

* Ex-type isolate