

Figure S1. Schematic diagram of sample design. a. Plot distribution across the 4-ha compartment. Each point represents a plot located in an *Abies* spp. stand. Nine plots were monitored across four different years, although samples from 2000 were not included in this study. b. Arrangement of soil core sampling within each plot. Open circles represent the positioning of 2.5 cm² soil cores taken between 1999 and 2002.

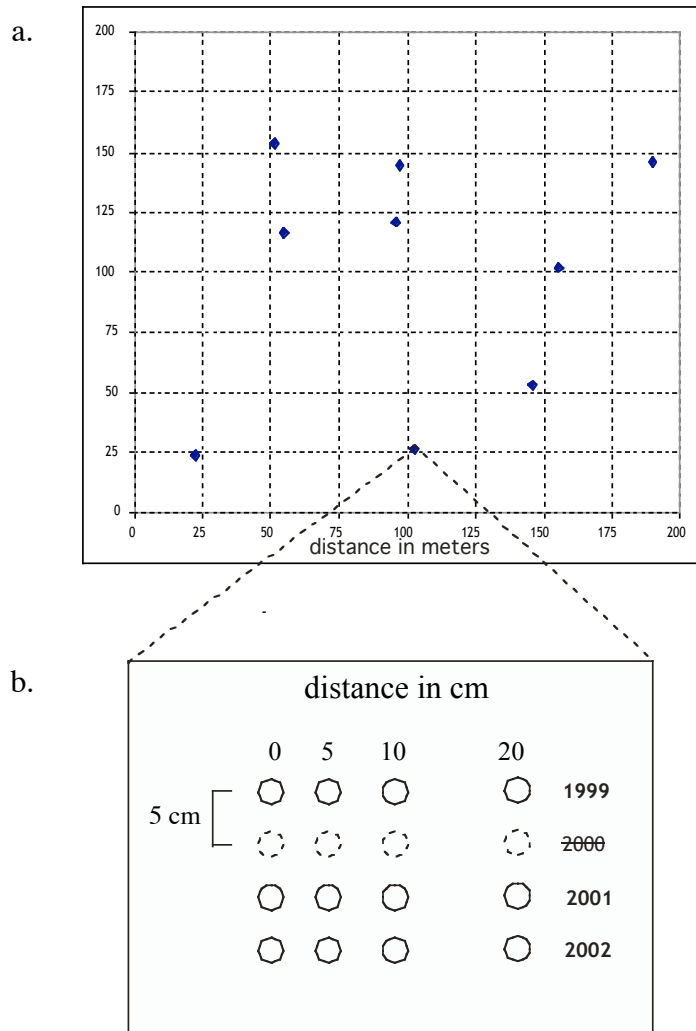


Table S1. Results of BLAST analysis of fungal ITS1 sequences. The results are based upon BLAST searches against Genbank using the length of the ITS1 sequence listed. The match index reflects the strength of the match based upon 1) how much of the query sequence was matched, and 2) how strong the pairwise matching was across that sequence. Match index scores can range from 0 (no match) to 100 (perfect match). The length of the BLAST results is occasionally longer than the query due to gaps introduced in the pairwise alignment. The final sequence type name reflects not only the strength of the best match but also to other matches of comparable strength, hence strong matches did not always result in high resolution names.

<u>Sequence type</u>	<u>bp</u>	<u>best named Genbank match</u>	<u>% match / match bp</u>	<u>index</u>	<u>Genbank accession</u>
Agaricoid1	179	<i>Hygrophorus unicolor</i> (AY242857)	94%/53	51	AY702722
Agaricoid2	247	<i>Inocybe flocculosa</i> (AY228354)	93%/81**	53	AY702723
Agaricoid3	267	<i>Inocybe pudica</i> (AY228341)	89%/89	52	AY702724
Agaricoid4	249	<i>Inocybe pudica</i> (AY228341)	88%/87	53	AY702725
Agaricoid5	234	<i>Tricholoma terreum</i> isolate 2027SyISE (AF377212)	96%/51	47	AY702726
Agaricoid6	210	<i>Inocybe relicina</i> (AF325664)	97%/35	43	AY702727
Agaricoid7	193	<i>Laccaria amethystina</i> (AF440665)	89%/100	64	AY702728
Agaricoid8	249	<i>Pleurotopsis longinqua</i> strain TENN54408 (AF012195)	100%/26	10	AY702729
Agaricoid9	253	<i>Tricholoma saponaceum</i> isolate KMS303 (AF377195)	100%/32	13	AY702730
Amanita1	209	<i>Amanita ibotengutake</i> (AB081292)	95%/201	95	AY702731
Amanita2	201	<i>Amanita ibotengutake</i> (AB080989)	95%/188	94	AY702732
Ascomycota1	163	<i>Cadophora</i> sp. H37 (AY371512)	87%/136	85	AY702733
Ascomycota2	193	<i>Cladophialophora boppii</i> (AB109182)	90%/180	91	AY702734
Ascomycota3	111	Ectomycorrhizal root tip (AF476985)	88%/111	92	AY702735
Ascomycota4	156	Helotiales sp. ARON3063 (AJ292198)	89%/149	91	AY702736
Ascomycota5	207	<i>Helvella lacunosa</i> (AJ544211)	100%/31	43	AY702737
Ascomycota6	139	<i>Hymenoscyphus</i> sp. he7-23-5 (AY112936)	95%/63	62	AY702738
Ascomycota7	162	Leotiales sp. Bjelland 61 (AY011014)	86%/151	90	AY702739
Ascomycota8	206	<i>Otidea grandis</i> (AF072096)	94%/35	43	AY702740
Ascomycota9	182	<i>Tricharina praecox</i> (U38627)	87%/54	49	AY702741
Ascomycota10	167	<i>Umbilicaria virginis</i> (AF297673)	88%/53	50	AY702742
Basidiomycota1	164	<i>Amphinema byssoides</i> (AY219839)	97%/43	50	AY702743
Basidiomycota2	186	<i>Amphinema byssoides</i> (AY219839)	94%/81**	60	AY702744
Basidiomycota3	223	<i>Athelia epiphylla</i> (AEU85793)	100%/28	13	AY702745
Basidiomycota4	238	<i>Coprinus lagopides</i> KACC49398 (AF345815)	94%/34	41	AY702746
Basidiomycota5	154	<i>Cortinarius arcuatorum</i> IB19950596 (AF503552)	100%/23	15	AY702747
Basidiomycota6	246	<i>Inocybe pudica</i> (AY228341)	89%/84	52	AY702748
Basidiomycota7	224	<i>Inocybe</i> sp. P38 (AJ534923)	87%/94	57	AY702749
Basidiomycota8	189	<i>Russula lilacea</i> 7071C54 (AY061731)	95%/44	47	AY702750
Basidiomycota9	191	<i>Piloderma fallax</i> isolate EL202 (AY010281)	91%/107	68	AY702751
Basidiomycota10	190	<i>Piloderma fallax</i> isolate EL202 (AY010281)	91%/107	68	AY702752
Basidiomycota11	192	<i>Piloderma fallax</i> isolate EL202 (AY010281)	88%/119	71	AY702753
Basidiomycota12	188	<i>Piloderma fallax</i> isolate EL232 (AY010282)	93%/113	71	AY702754
Basidiomycota13	193	<i>Piloderma fallax</i> isolate EL316 (AY010280)	95%/93	64	AY702755
Basidiomycota14	191	<i>Piloderma</i> sp. A18 (AF476998)	93%/101	66	AY702756
Basidiomycota15	113	<i>Thelephora, Russula, Amanita, Ramaria</i>	95%/24	46	AY702757
Basidiomycota16	191	Uncultured cf. <i>Piloderma</i> (AY097039)	87%/187	91	AY702758
Basidiomycota17	204	Uncultured cf. <i>Piloderma</i> (AY097039)	90%/181	89	AY702759
Basidiomycota18	168	Uncultured ECM (Cantharellales) (AF440673)	92%/65	56	AY702760
Basidiomycota19	179	Uncultured ectomycorrhiza (Corticaceae) (AF440671)	90%/120	75	AY702761
Basidiomycota20	177	<i>Albatrellus flettii</i> (AY061738)	91%/68	56	AY702762
Basidiomycota21	201	<i>Albatrellus ovinus</i> (AY198198)	91%/67	53	AY702763
Basidiomycota22	175	<i>Albatrellus ovinus</i> (AY198198)	89%/48	48	AY702764
Basidiomycota23	194	<i>Albatrellus subrubescens</i> (AY198204)	87%/101	64	AY702765
Basidiomycota24	171	<i>Artomyces stephenii</i> (AF454426)	92%/39	46	AY702766
Boletopsis1	227	<i>Boletopsis leucomelaena</i> (AF438567)	90%/228	93	AY702767
Cenococcum1	140	<i>Cenococcum geophilum</i> isolate cl2.19 (AY394919)	98%/140	99	AY702768
Choiromyces1	212	<i>Choiromyces alveolatus</i> (AF501258)	91%/212	94	AY702769

Cortinarius1	153	<i>Cortinarius decipiens</i> strain IB19740451 (AY083180)	94%/150	95	AY702770
Cortinarius2	151	<i>Cortinarius paleaceus</i> (AJ236078)	97%/151	98	AY702771
Cortinarius3	152	<i>Cortinarius paleaceus</i> (AJ236078)	96%/152	97	AY702772
Cortinarius4	150	<i>Cortinarius paleaceus</i> (AJ236078)	97%/150	98	AY702773
Cortinarius5	151	<i>Cortinarius traganus</i> IH-P16 (AF430251)	97%/151	98	AY702774
Gautieria1	650	<i>Gautieria</i> sp. Dinkey2230CA (AF377085)	99%/652	99	AY702775
Gautieria2	656	<i>Gautieria monticola</i> isolate SNF346CA (AF377101)	99%/656	99	AY702776
Gautieria3	196	<i>Gautieria monticola</i> isolate ORHF20 (AF377094)	98%/189	97	AY702777
Hebeloma1	226	<i>Hebeloma fastibile</i> IB 19940036 (AF325643)	98%/228	99	AY702778
Helotiales1	167	Epacrid root endophyte E4-5-5 (AF252838)	95%/165	96	AY702779
Inocybe1	256	<i>Inocybe relicina</i> (AF325664)	83%/261	89	AY702780
Lactarius1	214	<i>Lactarius intermedius</i> (AF140257)	95%/142	76	AY702781
Lactarius2	230	<i>Lactarius torminosus</i> (AY336959)	96%/229	97	AY702782
Pezizalean1	284	Pezizales sp. B48 (AJ534700)	90%/113**	57	AY702783
Pezizalean2	184	<i>Sarcosphaera coronaria</i> (AF133183)	83%/91	61	AY702784
Pezizalean3	207	<i>Phaeangium lefebvrei</i> (AF387652)	90%/135**	73	AY702785
Piloderma1	193	<i>Piloderma croceum</i> (AJ438982)	92%/191	94	AY702786
Piloderma2	194	<i>Piloderma croceum</i> (AJ438982)	89%/175	89	AY702787
Pseudotomentella1	226	<i>Pseudotomentella tristis</i> specimen-voucher (AF274771)	90%/179	83	AY702788
Pseudotomentella2	218	<i>Pseudotomentella tristis</i> specimen-voucher (AF274772)	94%/147	76	AY702789
<i>R. salebrosus</i>	224	<i>Rhizopogon salebrosus</i> (AF377157)	100%/224	100	AY706753
Rhizopogon7	293	<i>Rhizopogon subsalmonius</i> (AJ419212)	80%/280*	85	AY702790
Rhizopogon8	296	<i>Rhizopogon evadens</i> (AF062927)	92%/296	95	AY702791
Russula1	216	<i>Macowanites ammophilus</i> 40132 (AF230890)	98%/216	99	AY702792
Russula2	190	<i>Russula curtipes</i> (AY061668)	97%/159	88	AY702793
Russula3	188	<i>Russula curtipes</i> 1123IS77 (AY061668)	93%/190	95	AY702794
Russula4	186	<i>Russula exalbicans</i> (AF418622)	95%/186	97	AY702795
Russula5	217	<i>Russula foetens</i> (AY061677)	90%/217	93	AY702796
Russula6	216	<i>Russula foetens</i> (AY061677)	98%/216	99	AY702797
Russula7	204	<i>Russula integriformis</i> 561IS78 (AY061684)	99%/204	99	AY702798
Russula8	192	<i>Russula turci</i> 541RUS27 (AY061720)	96%/188	97	AY702799
Russula9	191	<i>Russula turci</i> 541RUS27 (AY061720)	97%/192	98	AY702800
Sarcodon1	206	<i>Sarcodon imbricatus</i> (AF103889)	92%/190	92	AY702801
Sebacinoid1	161	Sebacinaceae sp. F (AY296259)	99%/161	99	AY702802
Thelephoroid1	213	<i>Tomentella lapidum</i> (AF272941)	88%/169	82	AY702803
Thelephoroid2	211	<i>Tomentella subclavigera</i> isolate EL250 (AY010274)	90%/211	93	AY702804
Thelephoroid3	211	<i>Tomentella sublilacina</i> isolate EL123 (AY010278)	87%/212	91	AY702805
Thelephoroid4	211	<i>Tomentella sublilacina</i> isolate EL123 (AY010278)	90%/211	93	AY702806
Thelephoroid5	213	<i>Thelephora penicillata</i> (U83484)	93%/216	95	AY702807
Thelephoroid6	209	<i>Thelephora terrestris</i> isolate EL181 (AY010273)	99%/209	99	AY702808
Thelephoroid7	214	<i>Tomentella atramentaria</i> (AF272904)	91%/169	83	AY702809
Thelephoroid8	212	<i>Tomentella cinerascens</i> (U83483)	90%/145**	76	AY702810
Thelephoroid9	212	<i>Tomentella cinerascens</i> (U83483)	91%/212	94	AY702811
Thelephoroid10	211	<i>Tomentella cinerascens</i> (U83483)	88%/212	92	AY702812
Thelephoroid11	211	<i>Tomentella fusco-cinerea</i> (AF272942)	98%/166	85	AY702813
Tomentellopsis1	224	<i>Tomentellopsis submollis</i> (AJ438983)	97%/224	98	AY702814
Tricholoma1	241	<i>Tricholoma myomyces</i> isolate HDT53510 (AF377210)	98%/241	99	AY702815
Tuber1	220	<i>Tuber</i> sp. nw1 (AF323115)	89%/179	84	AY702816
Unknown1	31	many matches		51	AY702817
Unknown2	181	no matches		0	AY702818
Wilcoxina1	189	<i>Wilcoxina rehmii</i> (AF266708)	99%/189	99	AY702819
Wilcoxina2	272	<i>Wilcoxina rehmii</i> (AF266708)	95%/272	97	AY702820
Wilcoxina3	271	<i>Wilcoxina mikolae</i> (AY219841)	93%/263	89	AY702821

* results obtained from discontinuous BLAST searching

** discontinuous fragments

