

Supplementary Material

Appendix S1. Field sheet for recording the vegetation structure at each site. For forest structure (on the left) note the three highest percentages of trees per layer.

Site name:			
	Species 1	Species 2	Species 3
Canopy			
Sub-Canopy			
Understorey			
Groundcover			
Epiphytes			
Lianes			
Estimation cover classes: 50–100%, 20–49%, 10–19%, 1–9%			

Appendix S2. List of vascular plant species by site. var. = variety; subsp. = subspecies; s.s = *sensu strict*; aff. = related to; * = introduced; × = hybrid; sp. = species.

Vascular Plant Species and total (181 Indigenous + 21 exotic = total 202)	Six-Foot Track (107 + 5 = 112)	The Domain (118 + 19 = 137)	Maunganui Bluff (79 + 1 = 80)
Lycophytes (1 + 1 = 2)	(1 + 1 = 2)	(1 + 1 = 2)	(0 + 0 = 0)
<i>Lycopodium volubile</i> G.Forst.	x	x	
* <i>Selaginella kraussiana</i> (Kunze) A. Braun	x	x	
Pteridophytes (48 + 0 = 48)	(30 + 0 = 30)	(38 + 0 = 38)	(23 + 0 = 23)
<i>Abrodictyum elongatum</i> (A.Cunn.) Ebihara et K.Iwats.	x		
<i>Asplenium bulbiferum</i> G. Forst.	x	x	x
<i>Asplenium flaccidum</i> G.Forst.	x	x	x
<i>Asplenium lamprophyllum</i> Carse			x
<i>Asplenium polyodon</i> G.Forst.		x	x
<i>Asplenium oblongifolium</i> Colenso	x	x	x
<i>Austroblechnum membranaceum</i> (Colenso ex Hook.) Gasper et W.A.O.Dittrich		x	
<i>Austroblechnum lanceolatum</i> (R.Br.) Gasper et V.A.O.Dittrich	x	x	x
<i>Cranfillia fluviatilis</i> (R.Br.) Gasper et V.A.O.Dittrich	x	x	
<i>Cranfillia nigra</i> (Colenso) Gasper et V.A.O.Dittrich		x	
<i>Cyathea dealbata</i> (G.Forst.) Sw.			x
<i>Cyathea medullaris</i> (G. Forst.) Sw.		x	x
<i>Cyathea smithii</i> Hook. f.	x	x	
<i>Dendroconche scandens</i> (G.Forst.) Testo, Sundue et A.R.Field			x
<i>Dicksonia lanata</i> subsp. <i>hispida</i> (Colenso) Perrie et Brownsey		x	
<i>Dicksonia squarrosa</i> (G.Forst.) Swartz	x	x	
<i>Diplazium australe</i> (R.Br.) N.A.Wakef.		x	
<i>Diploblechnum fraseri</i> (A.Cunn.) De Vol	x	x	
<i>Doodia squarrosa</i> Colenso			x (AK382157)
<i>Hiya distans</i> (Hook.) Brownsey & Perrie		x	
<i>Hymenophyllum demissum</i> (G. Forst.)Sw.	x	x	x
<i>Hymenophyllum dilatatum</i> (G. Forst.) Sw.	x	x	x
<i>Hymenophyllum flabellatum</i> Labill.	x	x	
<i>Hymenophyllum flexuosum</i> (A. Cunn.) Copel.			x
<i>Hymenophyllum frankliniae</i> Colenso		x	
<i>Hymenophyllum multifidum</i> (G. Forst.) Sw.	x	x	
<i>Hymenophyllum nephrophyllum</i> Ebihara et K.Iwats.	x	x	x
<i>Hymenophyllum rarum</i> R. Br.	x	x	
<i>Hymenophyllum revolutum</i> Colenso	x	x	
<i>Hymenophyllum sanguinolentum</i> (G. Forst.) Sw.	x	x	
<i>Hymenophyllum scabrum</i> A. Rich.		x	
<i>Icarus filiformis</i> (A.Cunn.) Gasper et Salino	x		x
<i>Lastreopsis hispida</i> (Sw.) Tindale			x
<i>Leptopteris hymenophylloides</i> (A.Rich.) C.Presl	x	x	
<i>Lomaria discolor</i> (G.Forst.) Willd.	x	x	
<i>Loxogramme dictyopteris</i> (Mett.) Copel.		x	
<i>Lygodium articulatum</i> A.Rich.	x	x	x

Appendix S2. Continued.

Vascular Plant Species and total (181 Indigenous + 21 exotic = total 202)	Six-Foot Track (107 + 5 = 112)	The Domain (118 + 19 = 137)	Maunganui Bluff (79 + 1 = 80)
<i>Notogrammitis heterophylla</i> (Labill.) Parris	x	x	x
<i>Notogrammitis pseudociliata</i> (Parris) Parris		x	
<i>Paesia scaberula</i> (A.Rich.) Kuhn	x		
<i>Parablechnum novae-zelandiae</i> T.C.Chambers et P.A.Farrant) Gasper et Salino	x		
<i>Pneumatopteris pennigera</i> (G. Forst.) Holttum	x	x	x
<i>Polyphlebium venosum</i> (R.Br.) Copel.	x	x	
<i>Pteridium esculentum</i> (G. Forst.) Cockayne	x	x	
<i>Pyrosia elaeagnifolia</i> (Bory) Hovenkamp		x	x
<i>Rumohra adiantiformis</i> (G.Forst.) Ching	x	x	x
<i>Tmesipteris elongata</i> P.A. Dang.	x	x	x
<i>Zealandia pustulata</i> (G.Forst.) Testo et A.R.Field subsp. <i>pustulata</i>	x	x	x
Gymnosperms (5 + 0 = 5)	(4 + 0 = 4)	(4 + 0 = 4)	(4 + 0 = 4)
<i>Dacrycarpus dacrydioides</i> (A.Rich.) de Laub.	x	x	x
<i>Dacrydium cupressinum</i> Lamb.	x	x	x
<i>Pectinopitys ferruginea</i> (G.Benn. ex D.Don in Lamb.) C.N.Page	x	x	x
<i>Podocarpus laetus</i> Hooibr. ex Endl.	x	x	
<i>Prumnopitys taxifolia</i> (D.Don) de Laub.			x
Magnolids (4 + 0 = 4)	(2 + 0 = 2)	(3 + 0 = 3)	(3 + 0 = 3)
<i>Beilschmiedia tawa</i> (A.Cunn.) Benth. et Hook.f. ex Kirk		x	
<i>Beilschmiedia taraire</i> (A.Cunn.) Benth. et Hook.f. ex Kirk	x	x	x
<i>Hedycarya arborea</i> J.R.Forst. et G.Forst.	x	x	x
<i>Piper excelsum</i> (G.Forst.) Miq. subsp. <i>excelsum</i>			x
Monocots I (24 + 1 = 25)	(16 + 0 = 16)	(11 + 1 = 12)	(12 + 0 = 12)
<i>Acianthus sinclairii</i> Hook.f.		x	x
<i>Astelia hastata</i> (Colenso) Skottsb.		x	x
<i>Astelia microsperma</i> Colenso	x	x	
<i>Astelia solandri</i> A.Cunn.			x
<i>Astelia trinervia</i> Kirk	x		
<i>Caladenia chlorostyla</i> D.L.Jones, Molloy et M.A.Clem.	x	x	
<i>Chiloglottis cornuta</i> Hook.f.	x		
<i>Cordyline australis</i> (Forst.f.) Endl.			x
<i>Cordyline banksii</i> Hook.f.	x		
<i>Cordyline pumilio</i> Hook.f.	x		
<i>Corybas oblongus</i> (Hook.f.) Rchb.f.,	x		
<i>Corybas acuminatus</i> M.A.Clements et Hatch	x	x	
<i>Corybas macranthus</i> (Hook.f.) Rchb.f.,	x		
* <i>Crocasmia</i> × <i>crocosmiiflora</i> (Lemoine) N.E.Br.		x	
<i>Dendrobium cunninghamii</i> Lindl.	x	x	x
<i>Dianella nigra</i> Colenso	x	x	
<i>Drymoanthus adversus</i> (Hook.f.) Dockrill			x
<i>Earina autumnalis</i> (G.Forst.) Hook.f.	x	x	x

Appendix S2. Continued.

Vascular Plant Species and total (181 Indigenous + 21 exotic = total 202)	Six-Foot Track (107 + 5 = 112)	The Domain (118 + 19 = 137)	Maunganui Bluff (79 + 1 = 80)
<i>Earina mucronata</i> Lindl.	x	x	x
<i>Freycinetia banksii</i> A.Cunn.			x
<i>Phormium cookianum</i> subsp. <i>hookeri</i> (Hook.f.) Wardle	x		
<i>Phormium tenax</i> J.R.Forst. et G.Forst.			x
<i>Pterostylis banksii</i> A.Cunn.	x		x
<i>Ripogonum scandens</i> J.R.Forst. et G.Forst.	x	x	x
<i>Thelymitra pauciflora</i> R.Br.		x	
Monocots II - Commelinids (20 + 8 = 28)	(7 + 0 = 7)	(12 + 8 = 20)	(6 + 0 = 6)
* <i>Anthoxanthum odoratum</i> L.		x	
<i>Carex banksiana</i> K.A.Ford			x
* <i>Carex demissa</i> Hornem.		x	
<i>Carex dissita</i> Sol. ex Boott		x	
<i>Carex lessoniana</i> Steud.		x	
<i>Carex solandri</i> Boott			x
<i>Carex uncinata</i> L.f.	x		x
<i>Carex zotovii</i> (Hamlin) K.A.Ford	x	x	
* <i>Festuca rubra</i> L. subsp. <i>rubra</i>		x	
<i>Gahnia setifolia</i> (A.Rich.) Hook.f.			x
<i>Gahnia xanthocarpa</i> (Hook.f.) Hook.f.		x	
* <i>Holcus lanatus</i> L.		x	
<i>Isolepis sepulcralis</i> Steud.		x	
<i>Isolepis reticularis</i> Colenso	x	x	
<i>Juncus edgariae</i> L.A.S.Johnson et K.L.Wilson		x	
* <i>Juncus effusus</i> L. var. <i>effusus</i>		x	
<i>Juncus planifolius</i> R.Br.	x	x	
<i>Libertia micrantha</i> A.Cunn.		x	
* <i>Luzula congesta</i> (Thuill.) Lej.		x	
<i>Microlaena avenacea</i> (Raoul.) Hook.f.		x	
<i>Microlaena carsei</i> Cheeseman		x (AK381545)	
<i>Microlaena stipoides</i> (Labill.) R.Br.	x	x	
<i>Oplismenus hirtellus</i> subsp. <i>imbecillis</i> (R.Br.) U.Scholz.			x
<i>Rhopalostylis sapida</i> H.Wendl. et Drude			x
<i>Rytidosperma gracile</i> (Hook.f.) Connor et Edgar	x		
<i>Schoenus maschalinus</i> Roem. et Schult.	x		
* <i>Sieglingia decumbens</i> (L.) Bernh.	x	x	
* <i>Tradescantia fluminensis</i> Velloso		x	
Eudicots (3 + 2 = 5)	(3 + 1 = 54)	(1 + 1 = 2)	(2 + 0 = 2)
<i>Clematis cunninghamii</i> Turcz.	x		x
<i>Clematis paniculata</i> J.F.Gmel.	x	x	
<i>Knightia excelsa</i> R.Br.	x		x

Appendix S2. Continued.

Vascular Plant Species and total (181 Indigenous + 21 exotic = total 202)	Six-Foot Track (107 + 5 = 112)	The Domain (118 + 19 = 137)	Maunganui Bluff (79 + 1 = 80)
* <i>Ranunculus flammula</i> L.		x	
* <i>Ranunculus repens</i> L.	x		
Core Eudicots (75 + 10 = 85)	(44 + 3 = 47)	(47 + 9 = 56)	(29 + 1 = 30)
<i>Acaena anserinifolia</i> (J.R.Forst. et G.Forst.) J.B.Armstr.		x	
<i>Ackama rosifolia</i> A.Cunn.	x	x	
<i>Alseuosmia quercifolia</i> A.Cunn.	x	x	
<i>Australina pusilla</i> Gaudich. subsp. <i>pusilla</i>			x (AK382156)
* <i>Berberis glaucocarpa</i> Stapf		x	
<i>Brachyglottis kirkii</i> var. <i>angustior</i> (Allan) C.J.Webb	x	x	
<i>Brachyglottis repanda</i> J.R.Forst. et G.Forst.	x		
* <i>Cardamine flexuosa</i> With.		x	
<i>Centella uniflora</i> (Colenso) Nannf.	x	x	
<i>Coprosma arborea</i> Kirk	x		x
<i>Coprosma areolata</i> Cheeseman			x
<i>Coprosma autumnalis</i> Colenso	x	x	x
<i>Coprosma lucida</i> J.R.Forst. et G.Forst.	x		x
<i>Coprosma macrocarpa</i> subsp. <i>minor</i> R.O.Gardner et Heads ex A.Druce			x
<i>Coprosma parviflora</i> Hook.f.	x		x
<i>Coprosma rhamnoides</i> A.Cunn.	x		x
<i>Coprosma tenuicaulis</i> Hook.f.	x		
* <i>Digitalis purpurea</i> L.		x	x
<i>Dracophyllum latifolium</i> A.Cunn.			x
<i>Elaeocarpus dentatus</i> (J.R.Forst. et G.Forst.) Vahl var. <i>dentatus</i>	x	x	
<i>Elaeocarpus hookerianus</i> Raoul		x (AK381548)	
<i>Elatostema rugosum</i> A.Cunn.		x	
<i>Euchiton japonicus</i> (Thunb.) Holub	x	x	x
<i>Fuchsia excorticata</i> (J.R.Forst. et G.Forst.) L.f.		x	
<i>Geniostoma ligustrifolium</i> A.Cunn.var. <i>ligustrifolium</i>	x		x
<i>Gonocarpus incanus</i> (A.Cunn.) Orchard		x	
<i>Gonocarpus micranthus</i> Thunb.subsp. <i>micranthus</i>		x	
<i>Griselinia littoralis</i> Raoul		x (AK381546)	
<i>Griselinia lucida</i> G.Forst.	x	x	x
<i>Hebe flavida</i> Bayly, Kellow et de Lange	x		x
<i>Hoheria populnea</i> A.Cunn.	x		x
<i>Hydrocotyle dissecta</i> Hook.f.		x	
<i>Hydrocotyle moschata</i> G.Forst.var. <i>moschata</i>	x		
<i>Hydrocotyle</i> aff. <i>elongata</i> A.Cunn.			x
* <i>Hypericum androsaemum</i> L.		x	
<i>Hypericum pusillum</i> Choisy	x	x	
* <i>Hypochaeris radicata</i> L.		x	
<i>Ixerba brexioides</i> A.Cunn.		x	

Appendix S2. Continued.

Vascular Plant Species and total (181 Indigenous + 21 exotic = total 202)	Six-Foot Track (107 + 5 = 112)	The Domain (118 + 19 = 137)	Maunganui Bluff (79 + 1 = 80)
* <i>Jacobaea vulgaris</i> Gaertn.	x		
<i>Kunzea robusta</i> de Lange et Toelken	x		
<i>Leptospermum</i> aff. <i>scoparium</i> (a) "Auckland" - AK 284541 (de Lange et al. 2018)	x	x	
<i>Leptostigma setulosum</i> (Hook.f.) Fosberg		x	
* <i>Leycesteria formosa</i> Wall.		x	
<i>Lobelia anceps</i> L.f.	x	x	
<i>Lophomyrtus bullata</i> Burret	x (AK381550)	x (AK381544)	x (AK381551)
* <i>Lotus pedunculatus</i> Cav.	x	x	
<i>Leucopogon fasciculatus</i> (G.Forst.) A.Rich.	x		
<i>Melicytus macrophyllus</i> A.Cunn.	x	x	
<i>Melicytus ramiflorus</i> J.R.Forst. et G.Forst. subsp. <i>ramiflorus</i>		x	x
<i>Metrosideros albiflora</i> Sol. ex Gaertn.	x	x	
<i>Metrosideros carminea</i> Hook.f.	x		
<i>Metrosideros diffusa</i> (G.Forst.) Sm.	x	x	x
<i>Metrosideros fulgens</i> Sol. ex Gaertn.	x	x	x
<i>Metrosideros perforata</i> (J.R.Forst. et G.Forst.) A.Rich.			x
<i>Metrosideros robusta</i> A.Cunn.	x	x	
<i>Mida salicifolia</i> A.Cunn.	x		
<i>Montia fontana</i> L.		x	
<i>Myrsine australis</i> (A.Rich.) Allan	x		x
<i>Myrsine salicina</i> Hew. ex Hook.f.		x	
<i>Neomyrtus pedunculata</i> (Hook.f.) Allan		x (AK381547)	
<i>Nertera depressa</i> Banks et Sol. ex Gaertn.	x	x	
<i>Nertera dichondrifolia</i> (A.Cunn.) Hook.f.	x		
<i>Nestegis lanceolata</i> (Hook.f.) L.A.S.Johnson		x	
<i>Olearia albida</i> (Hook.f.) Hook.f.			x
<i>Olearia rani</i> (A.Cunn.) Druce var. <i>rani</i>	x	x	
<i>Parsonsia capsularis</i> (G.Forst.) R.Br.		x	
<i>Parsonsia</i> sp. R.Br.	x		
<i>Pittosporum cornifolium</i> A.Cunn.		x	
<i>Pittosporum eugenioides</i> A.Cunn.			x (AK382158)
<i>Pittosporum tenuifolium</i> Sol. ex Gaertn.		x	
* <i>Potentilla anglica</i> Laicharding		x	
* <i>Prunella vulgaris</i> L.	x	x	
<i>Pseudopanax arboreus</i> (L.f.) Allan	x	x	
<i>Pseudopanax crassifolius</i> (Sol. ex A.Cunn.) C.Koch		x	x
<i>Quintinia serrata</i> A.Cunn.	x		
<i>Raukaua anomalus</i> (Hook.f.) A.D.Mitch., Frodin et Heads		x	
<i>Raukaua simplex</i> (G.Forst.) A.D.Mitch., Frodin et Heads		x	
<i>Rhabdothamnus</i> aff. <i>solandri</i> (b) (AK 296774; Maunganui Bluff)			x
<i>Rubus australis</i> G.Forst.	x	x	x
<i>Rubus cissoides</i> (A.Cunn.) Hook.f.	x	x	

Appendix S2. Continued.

Vascular Plant Species and total (181 Indigenous + 21 exotic = total 202)	Six-Foot Track (107 + 5 = 112)	The Domain (118 + 19 = 137)	Maunganui Bluff (79 + 1 = 80)
<i>Senecio minimus</i> Poir.	x	x	
<i>Schefflera digitata</i> J.R.Forst. et G.Forst.	x	x	x
<i>Solanum opacum</i> A.Braun et C.D.Bouché			x
<i>Syzygium maire</i> (A.Cunn.) Sykes et Garn.-Jones		x	
<i>Weinmannia sylvicola</i> Sol. ex A.Cunn.	x	x	x

Appendix S3. ZOTU ITS data of species with a sequence similarity > 0.97.

Zotu	Phylum	Class	Order	Family	Species	% sequence similarity
zotu1043	Ascomycota	Sordariomycetes	Xylariales	Xylariales_unidentified	Xylariales_unidentified SH1554496.08FU	0.98
zotu1276	Ascomycota	Leotiomycetes	Helotiales	Helotiales_unidentified	Helotiales_unidentified SH1509622.08FU	0.98
zotu1389	Ascomycota	Leotiomycetes	Helotiales	Helotiales_unidentified	Helotiales_unidentified SH1509522.08FU	0.98
zotu1490	Ascomycota	Sordariomycetes	Hypocreales	Nectriaceae	Nectriaceae_unidentified SH1506692.08FU	0.98
zotu1523	Ascomycota	Sordariomycetes	Xylariales	Xylariales_unidentified	Xylariales_unidentified SH1554496.08FU	0.98
zotu1555	Ascomycota	Sordariomycetes	Xylariales	Xylariales_unidentified	Xylariales_unidentified SH1647534.08FU	0.98
zotu1675	Ascomycota	Dothideomycetes	Capnodiales	Capnodiales_unidentified	Capnodiales_unidentified SH1627183.08FU	0.98
zotu1901	Basidiomycota	Agaricomycetes	Agaricales	Agaricaceae	Agaricus_unidentified SH1593993.08FU	0.98
zotu193	Ascomycota	Leotiomycetes	Helotiales	Helotiales_unidentified	Helotiales_unidentified SH1522974.08FU	0.98
zotu1960	Ascomycota	Sordariomycetes	Glomerellales	Plectosphaerellaceae	Musicillium_theobromae SH1551614.08FU	0.98
zotu2133	Glomeromycota	Glomeromycetes	Glomerales	Glomeraceae	Glomus_unidentified SH1505739.08FU	0.98
zotu22	Basidiomycota	Agaricomycetes	Trechisporales	Hydnodontaceae	Hydnodontaceae_unidentified SH1555059.08FU	0.98
zotu2304	Ascomycota	Dothideomycetes	Dothideomycetes_unidentified	Dothideomycetes_unidentified	Dothideomycetes_unidentified SH1657585.08FU	0.98
zotu2379	Ascomycota	Sordariomycetes	Hypocreales	Clavicipitaceae	Clavicipitaceae_unidentified SH1552527.08FU	0.98
zotu2487	Ascomycota	Lecanoromycetes	Lecanorales	Lecanorales_unidentified	Lecanorales_unidentified SH1515811.08FU	0.98
zotu2569	Ascomycota	Dothideomycetes	Capnodiales	Capnodiales_unidentified	Capnodiales_unidentified SH1627183.08FU	0.98
zotu2583	Ascomycota	Sordariomycetes	Sordariales	Sordariales_fam_Incertae_sedis	Conlarium_unidentified SH1570518.08FU	0.98
zotu339	Basidiomycota	Agaricomycetes	Agaricales	Tricholomataceae	Mycena_leptocephala SH1542358.08FU	0.98
zotu520	Basidiomycota	Agaricomycetes	Agaricales	Tricholomataceae	Mycena_leptocephala SH1542358.08FU	0.98
zotu627	Ascomycota	Leotiomycetes	Helotiales	Hyaloscyphaceae	Hyaloscyphaceae_unidentified SH1506149.08FU	0.98
zotu660	Ascomycota	Lecanoromycetes	Lecanoromycetes_unidentified	Lecanoromycetes_unidentified	Lecanoromycetes_unidentified SH1560250.08FU	0.98
zotu709	Ascomycota	Sordariomycetes	Hypocreales	Hypocreales_unidentified	Hypocreales_unidentified SH1649294.08FU	0.98
zotu801	Ascomycota	Eurotiomycetes	Chaetothyriales	Herpotrichiellaceae	Capronia_unidentified SH1565629.08FU	0.98
zotu893	Ascomycota	Ascomycota_unidentified	Ascomycota_unidentified	Ascomycota_unidentified	Ascomycota_unidentified SH1515696.08FU	0.98
zotu906	Ascomycota	Leotiomycetes	Helotiales	Helotiales_unidentified	Helotiales_unidentified SH1558272.08FU	0.98
zotu959	Ascomycota	Lecanoromycetes	Lecanoromycetes_unidentified	Lecanoromycetes_unidentified	Lecanoromycetes_unidentified SH1560250.08FU	0.98
zotu988	Basidiomycota	Agaricomycetes	Cantharellales	Cantharellales_fam_Incertae_sedis	Sistotrema_unidentified SH1519585.08FU	0.98

Appendix S3. ZOTU ITS data of species with a sequence similarity > 0.97.

Zotu	Phylum	Class	Order	Family	Species	% sequence similarity
zotu100	Ascomycota	Leotiomyces	Helotiales	Helotiales_unidentified	Helotiales_unidentified SH1549488.08FU	0.99
zotu1006	Basidiomycota	Agaricomycetes	Hymenochaetales	Schizophoraceae	Xylodon_brevisetus SH1517836.08FU	0.99
zotu102	Ascomycota	Archaeorhizomycetes	Archaeorhizomycetales	Archaeorhizomycetaceae	Archaeorhizomyces_unidentified SH1514410.08FU	0.99
zotu1024	Ascomycota	Ascomycota_unidentified	Ascomycota_unidentified	Ascomycota_unidentified	Ascomycota_unidentified SH1560799.08FU	0.99
zotu1097	Ascomycota	Sordariomycetes	Xylariales	Xylariales_unidentified	Xylariales_unidentified SH1554496.08FU	0.99
zotu1105	Ascomycota	Leotiomyces	Helotiales	Helotiales_unidentified	Helotiales_unidentified SH1522939.08FU	0.99
zotu1114	Ascomycota	Sordariomycetes	Hypocreales	Hypocreales_fam_Incertae_sedis	Acremonium_furcatum SH1836220.08FU	0.99
zotu1155	Ascomycota	Dothideomycetes	Dothideomycetes_unidentified	Dothideomycetes_unidentified	Dothideomycetes_unidentified SH1515544.08FU	0.99
zotu1208	Ascomycota	Sordariomycetes	Hypocreales	Hypocreales_unidentified	Hypocreales_unidentified SH1644892.08FU	0.99
zotu1217	Ascomycota	Sordariomycetes	Sordariales	Cephalothecaceae	Cephalotheca_unidentified SH1547820.08FU	0.99
zotu1327	Ascomycota	Sordariomycetes	Hypocreales	Nectriaceae	Nectriaceae_unidentified SH1546350.08FU	0.99
zotu135	Ascomycota	Leotiomyces	Helotiales	Dermateaceae	Pezicula_unidentified SH1523023.08FU	0.99
zotu1368	Ascomycota	Leotiomyces	Helotiales	Helotiales_unidentified	Helotiales_unidentified SH1509622.08FU	0.99
zotu1565	Basidiomycota	Agaricomycetes	Atheliales	Atheliaceae	Athelia_unidentified SH1561290.08FU	0.99
zotu1588	Ascomycota	Leotiomyces	Helotiales	Helotiaceae	Hymenoscyphus_serotinus SH1564462.08FU	0.99
zotu1700	Glomeromycota	Glomeromycetes	Glomerales	Glomeraceae	Glomus_unidentified SH1505739.08FU	0.99
zotu1759	Ascomycota	Sordariomycetes	Xylariales	Xylariaceae	Xylariaceae_unidentified SH1557592.08FU	0.99
zotu1802	Ascomycota	Sordariomycetes	Chaetosphaeriales	Chaetosphaeriaceae	Chaetosphaeriaceae_unidentified SH1517985.08FU	0.99
zotu1870	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified SH2733261.08FU	0.99
zotu1952	Basidiomycota	Tremellomycetes	Tremellales	Tremellales_unidentified	Tremellales_unidentified SH1528233.08FU	0.99
zotu2008	Ascomycota	Leotiomyces	Helotiales	Helotiales_unidentified	Helotiales_unidentified SH1509622.08FU	0.99
zotu2246	Ascomycota	Ascomycota_unidentified	Ascomycota_unidentified	Ascomycota_unidentified	Ascomycota_unidentified SH1645874.08FU	0.99
zotu230	Ascomycota	Leotiomyces	Helotiales	Dermateaceae	Pezicula_melanigena SH2170074.08FU	0.99
zotu2362	Ascomycota	Orbiliomycetes	GS33	GS33_unidentified	GS33_unidentified SH1652698.08FU	0.99
zotu237	Ascomycota	Leotiomyces	Helotiales	Myxotrichaceae	Oidiodendron_unidentified SH1564463.08FU	0.99
zotu2370	Ascomycota	Dothideomycetes	Dothideomycetes_unidentified	Dothideomycetes_unidentified	Dothideomycetes_unidentified SH1515544.08FU	0.99
zotu2378	Ascomycota	Dothideomycetes	Dothideomycetes_unidentified	Dothideomycetes_unidentified	Dothideomycetes_unidentified SH1515544.08FU	0.99
zotu2589	Ascomycota	Sordariomycetes	Glomerellales	Plectosphaerellaceae	Verticillium_albo-atrum SH1520726.08FU	0.99
zotu2603	Ascomycota	Sordariomycetes	Hypocreales	Hypocreales_unidentified	Hypocreales_unidentified SH1548635.08FU	0.99
zotu269	Ascomycota	Orbiliomycetes	Orbiliales	Orbiliales_unidentified	Orbiliales_unidentified SH1659665.08FU	0.99
zotu390	Glomeromycota	Glomeromycetes	Glomerales	Glomeraceae	Glomeraceae_unidentified SH1539751.08FU	0.99
zotu449	Ascomycota	Ascomycota_unidentified	Ascomycota_unidentified	Ascomycota_unidentified	Ascomycota_unidentified SH1545867.08FU	0.99
zotu456	Ascomycota	Sordariomycetes	Hypocreales	Nectriaceae	Fusarium_concentricum SH2456034.08FU	0.99
zotu513	Ascomycota	Sordariomycetes	Hypocreales	Clavicipitaceae	Metarhizium_carneum SH1552520.08FU	0.99
zotu583	Basidiomycota	Agaricomycetes	Trechisporales	Trechisporales_unidentified	Trechisporales_unidentified SH1559866.08FU	0.99
zotu598	Ascomycota	Dothideomycetes	Dothideomycetes_unidentified	Dothideomycetes_unidentified	Dothideomycetes_unidentified SH1515544.08FU	0.99
zotu602	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified SH3334870.08FU	0.99
zotu775	Ascomycota	Leotiomyces	Helotiales	Helotiales_unidentified	Helotiales_unidentified SH1648808.08FU	0.99
zotu805	Basidiomycota	Agaricomycetes	Agaricales	Omphalotaceae	Rhodocollybia_incarnata SH1646578.08FU	0.99
zotu826	Basidiomycota	Agaricomycetes	Agaricales	Tricholomataceae	Flagelloscypha_minutissima SH1508398.08FU	0.99
zotu856	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified SH1646794.08FU	0.99

Appendix S3. ZOTU ITS data of species with a sequence similarity > 0.97.

Zotu	Phylum	Class	Order	Family	Species	% sequence similarity
zotu957	Basidiomycota	Agaricomycetes	Agaricales	Agaricales_unidentified	Agaricales_unidentified SH1652600.08FU	0.99
zotu1030	Ascomycota	Orbiliomycetes	Orbiliales	Orbiliales_unidentified	Orbiliales_unidentified SH1646679.08FU	1
zotu1033	Ascomycota	Eurotiomycetes	Chaetothyriales	Herpotrichiellaceae	Capronia_unidentified SH1565629.08FU	1
zotu1049	Ascomycota	Eurotiomycetes	Chaetothyriales	Herpotrichiellaceae	Capronia_unidentified SH1565629.08FU	1
zotu1051	Basidiomycota	Agaricomycetes	Boletales	Sclerodermataceae	Scleroderma_xanthochroum SH1525914.08FU	1
zotu1124	Ascomycota	Dothideomycetes	Pleosporales	Cucurbitariaceae	Pyrenochaetopsis_leptospora SH1525086.08FU	1
zotu1168	Ascomycota	Eurotiomycetes	Chaetothyriales	Herpotrichiellaceae	Cladophialophora_unidentified SH1529591.08FU	1
zotu1173	Basidiomycota	Agaricomycetes	Agaricales	Agaricales_unidentified	Agaricales_unidentified SH1522391.08FU	1
zotu121	Basidiomycota	Agaricomycetes	Agaricales	Tricholomataceae	Delicatula_integrella SH1567106.08FU	1
zotu1247	Ascomycota	Dothideomycetes	Pleosporales	Cucurbitariaceae	Pyrenochaetopsis_leptospora SH1525086.08FU	1
zotu1262	Ascomycota	Leotiomycetes	Helotiales	Helotiales_unidentified	Helotiales_unidentified SH1523086.08FU	1
zotu127	Ascomycota	Geoglossomycetes	Geoglossales	Geoglossaceae	Geoglossum_umbratile SH1562958.08FU	1
zotu1297	Ascomycota	Eurotiomycetes	Chaetothyriales	Herpotrichiellaceae	Capronia_unidentified SH1565629.08FU	1
zotu1317	Ascomycota	Leotiomycetes	Helotiales	Helotiales_unidentified	Helotiales_unidentified SH1543031.08FU	1
zotu1325	Rozellomycota	Rozellomycotina_cls_Incertae_sedis	GS05	GS05_unidentified	GS05_unidentified SH1524209.08FU	1
zotu1382	Mortierellomycota	Mortierellomycetes	Mortierellales	Mortierellaceae	Mortierella_gemmifera SH1557014.08FU	1
zotu1397	Mucoromycota	Mucoromycetes	Mucorales	Backusellaceae	Backusella_tuberculispora SH1524721.08FU	1
zotu1496	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified SH2700897.08FU	1
zotu1500	Ascomycota	Sordariomycetes	Chaetosphaeriales	Chaetosphaeriaceae	Porosphaerella_cordanophora SH1648727.08FU	1
zotu154	Basidiomycota	Agaricomycetes	Trechisporales	Hydnodontaceae	Hydnodontaceae_unidentified SH1555065.08FU	1
zotu1551	Ascomycota	Ascomycota_unidentified	Ascomycota_unidentified	Ascomycota_unidentified	Ascomycota_unidentified SH1614480.08FU	1
zotu1608	Ascomycota	Saccharomycetes	Saccharomycetales	Saccharomycetales_unidentified	Saccharomycetales_unidentified SH1573071.08FU	1
zotu1633	Basidiomycota	Microbotryomycetes	Sporidiobolales	Sporidiobolaceae	Rhodotorula_mucilaginoso SH1558726.08FU	1
zotu167	Ascomycota	Dothideomycetes	Dothideomycetes_unidentified	Dothideomycetes_unidentified	Dothideomycetes_unidentified SH1515544.08FU	1
zotu1677	Ascomycota	Ascomycota_unidentified	Ascomycota_unidentified	Ascomycota_unidentified	Ascomycota_unidentified SH1614480.08FU	1
zotu1724	Glomeromycota	Glomeromycetes	Glomerales	Glomeraceae	Glomeraceae_unidentified SH1539751.08FU	1
zotu1730	Ascomycota	Ascomycota_unidentified	Ascomycota_unidentified	Ascomycota_unidentified	Ascomycota_unidentified SH1647629.08FU	1
zotu1738	Ascomycota	Dothideomycetes	Pleosporales	Pleosporales_unidentified	Pleosporales_unidentified SH1613292.08FU	1
zotu1739	Ascomycota	Dothideomycetes	Capnodiales	Capnodiales_unidentified	Capnodiales_unidentified SH1627183.08FU	1
zotu1743	Ascomycota	Dothideomycetes	Pleosporales	Pleosporales_unidentified	Pleosporales_unidentified SH1637049.08FU	1
zotu175	Basidiomycota	Agaricomycetes	Agaricales	Tricholomataceae	Delicatula_integrella SH1567106.08FU	1
zotu1788	Ascomycota	Ascomycota_unidentified	Ascomycota_unidentified	Ascomycota_unidentified	Ascomycota_unidentified SH1563570.08FU	1
zotu179	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified SH2721242.08FU	1
zotu1797	Ascomycota	Pezizomycetes	Pezizales	Sarcosomataceae	Plectania_campylospora SH1564345.08FU	1
zotu18	Basidiomycota	Agaricomycetes	Trechisporales	Hydnodontaceae	Hydnodontaceae_unidentified SH1555059.08FU	1
zotu1806	Ascomycota	Eurotiomycetes	Chaetothyriales	Herpotrichiellaceae	Capronia_unidentified SH1565629.08FU	1
zotu1814	Ascomycota	Sordariomycetes	Hypocreales	Nectriaceae	Cylindrocarpon_unidentified SH1548154.08FU	1
zotu1823	Ascomycota	Sordariomycetes	Hypocreales	Hypocreales_unidentified	Hypocreales_unidentified SH1548635.08FU	1
zotu185	Ascomycota	Dothideomycetes	Pleosporales	Cucurbitariaceae	Pyrenochaetopsis_leptospora SH1525086.08FU	1
zotu1857	Ascomycota	Sordariomycetes	Xylariales	Vialaeaceae	Vialaea_insculpta SH1650456.08FU	1
zotu1890	Basidiomycota	Agaricomycetes	Trechisporales	Hydnodontaceae	Hydnodontaceae_unidentified SH1555065.08FU	1
zotu1915	Ascomycota	Ascomycota_unidentified	Ascomycota_unidentified	Ascomycota_unidentified	Ascomycota_unidentified SH1524842.08FU	1
zotu1928	Basidiomycota	Tritirachiomycetes	Tritirachiales	Tritirachiaceae	Tritirachium_cinnamomeum SH3340550.08FU	1

Appendix S3. ZOTU ITS data of species with a sequence similarity > 0.97.

Zotu	Phylum	Class	Order	Family	Species	% sequence similarity
zotu196	Basidiomycota	Agaricomycetes	Trechisporales	Trechisporales_unidentified	Trechisporales_unidentified SH1549725.08FU	1
zotu1973	Basidiomycota	Agaricomycetes	Agaricales	Tricholomataceae	Camarophyllus_impurus SH1646262.08FU	1
zotu1977	Ascomycota	Sordariomycetes	Chaetosphaeriales	Chaetosphaeriaceae	Chaetosphaeria_unidentified SH1564780.08FU	1
zotu2005	Basidiomycota	Tremellomycetes	Filobasidiales	Piskurozymaceae	Solicoccozyma_terricola SH1649268.08FU	1
zotu2031	Ascomycota	Eurotiomycetes	Chaetothyriales	Herpotrichiellaceae	Capronia_unidentified SH1565629.08FU	1
zotu2070	Rozellomycota	Rozellomycotina_cls_Incertae_sedis	GS11	GS11_unidentified	GS11_unidentified SH1566736.08FU	1
zotu2077	Basidiomycota	Malasseziomycetes	Malasseziales	Malasseziaceae	Malassezia_restricta SH1515384.08FU	1
zotu2083	Ascomycota	Eurotiomycetes	Chaetothyriales	Herpotrichiellaceae	Cladophialophora_unidentified SH1529599.08FU	1
zotu209	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified SH2721242.08FU	1
zotu2104	Ascomycota	Orbiliomycetes	Orbiliales	Orbiliaceae	Orbiliaceae_unidentified SH1511056.08FU	1
zotu2131	Glomeromycota	Glomeromycetes	Glomerales	Glomeraceae	Glomeraceae_unidentified SH1539751.08FU	1
zotu216	Ascomycota	Leotiomycetes	Helotiales	Helotiales_unidentified	Helotiales_unidentified SH1523764.08FU	1
zotu2167	Basidiomycota	Agaricomycetes	Trechisporales	Hydnodontaceae	Luellia_cystidiata SH1555060.08FU	1
zotu2185	Basidiomycota	Agaricomycetes	Cantharellales	Tulasnellaceae	Tulasnellaceae_unidentified SH1513940.08FU	1
zotu2188	Basidiomycota	Agaricomycetes	Cantharellales	Tulasnellaceae	Tulasnellaceae_unidentified SH1513940.08FU	1
zotu2243	Ascomycota	Dothideomycetes	Pleosporales	Sporormiaceae	Preussia_unidentified SH1565537.08FU	1
zotu2338	Ascomycota	Dothideomycetes	Dothideomycetes_unidentified	Dothideomycetes_unidentified	Dothideomycetes_unidentified SH1515544.08FU	1
zotu2387	Basidiomycota	Basidiomycota_unidentified	Basidiomycota_unidentified	Basidiomycota_unidentified	Basidiomycota_unidentified SH1516555.08FU	1
zotu2398	Basidiomycota	Agaricomycetes	Polyporales	Ganodermataceae	Ganoderma_australe SH1555642.08FU	1
zotu2414	Ascomycota	Archaeorhizomycetes	GS31	GS31_unidentified	GS31_unidentified SH1658944.08FU	1
zotu2484	Basidiomycota	Agaricomycetes	Trechisporales	Hydnodontaceae	Trechispora_unidentified SH1555567.08FU	1
zotu2528	Ascomycota	Eurotiomycetes	Chaetothyriales	Herpotrichiellaceae	Capronia_unidentified SH1565629.08FU	1
zotu265	Ascomycota	Eurotiomycetes	Chaetothyriales	Chaetothyriales_unidentified	Chaetothyriales_unidentified SH1636084.08FU	1
zotu2650	Ascomycota	Dothideomycetes	Pleosporales	Lophiostomataceae	Lophiostoma_corticola SH1560576.08FU	1
zotu278	Ascomycota	Dothideomycetes	Capnodiales	Capnodiaceae	Scorias_mangiferae SH1549162.08FU	1
zotu324	Basidiomycota	Agaricomycetes	Agaricomycetes_unidentified	Agaricomycetes_unidentified	Agaricomycetes_unidentified SH1564815.08FU	1
zotu342	Ascomycota	Leotiomycetes	Helotiales	Helotiales_unidentified	Helotiales_unidentified SH1560077.08FU	1
zotu360	Ascomycota	Leotiomycetes	Helotiales	Helotiales_fam_Incertae_sedis	Chalara_angustata SH1549498.08FU	1
zotu426	Glomeromycota	Glomeromycetes	Glomerales	Glomeraceae	Glomeraceae_unidentified SH1539751.08FU	1
zotu43	Ascomycota	Saccharomycetes	Saccharomycetales	Saccharomycopsidaceae	Saccharomycopsis_fibuligera SH1606066.08FU	1
zotu432	Ascomycota	Eurotiomycetes	Chaetothyriales	Chaetothyriales_unidentified	Chaetothyriales_unidentified SH1636084.08FU	1
zotu470	Glomeromycota	Glomeromycetes	Glomerales	Glomeraceae	Glomeraceae_unidentified SH1539751.08FU	1
zotu50	Ascomycota	Dothideomycetes	Dothideomycetes_unidentified	Dothideomycetes_unidentified	Dothideomycetes_unidentified SH1515544.08FU	1
zotu532	Ascomycota	Ascomycota_unidentified	Ascomycota_unidentified	Ascomycota_unidentified	Ascomycota_unidentified SH1614480.08FU	1
zotu561	Ascomycota	Orbiliomycetes	Orbiliales	Orbiliales_unidentified	Orbiliales_unidentified SH1646679.08FU	1
zotu562	Ascomycota	Eurotiomycetes	Chaetothyriales	Herpotrichiellaceae	Capronia_unidentified SH1565629.08FU	1
zotu570	Basidiomycota	Agaricomycetes	Agaricomycetes_unidentified	Agaricomycetes_unidentified	Agaricomycetes_unidentified SH1515743.08FU	1
zotu587	Ascomycota	Eurotiomycetes	Chaetothyriales	Cyphellophoraceae	Cyphellophora_gamsii SH1636090.08FU	1
zotu593	Ascomycota	Ascomycota_unidentified	Ascomycota_unidentified	Ascomycota_unidentified	Ascomycota_unidentified SH1647629.08FU	1
zotu603	Ascomycota	Ascomycota_unidentified	Ascomycota_unidentified	Ascomycota_unidentified	Ascomycota_unidentified SH1516786.08FU	1
zotu654	Ascomycota	Leotiomycetes	Helotiales	Helotiales_unidentified	Helotiales_unidentified SH1523764.08FU	1

Appendix S3. ZOTU ITS data of species with a sequence similarity > 0.97.

Zotu	Phylum	Class	Order	Family	Species	% sequence similarity
zotu663	Ascomycota	Geoglossomycetes	Geoglossales	Geoglossaceae	Geoglossum_umbratile SH1562958.08FU	1
zotu677	Ascomycota	Leotiomycetes	Helotiales	Helotiaceae	Phaeohelotium_unidentified SH2712288.08FU	1
zotu71	Ascomycota	Leotiomycetes	Helotiales	Helotiales_unidentified	Helotiales_unidentified SH1523530.08FU	1
zotu711	Ascomycota	Leotiomycetes	Helotiales	Helotiales_unidentified	Helotiales_unidentified SH1523764.08FU	1
zotu714	Ascomycota	Eurotiomycetes	Chaetothyriales	Herpotrichiellaceae	Capronia_unidentified SH1565629.08FU	1
zotu717	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified SH1560081.08FU	1
zotu719	Ascomycota	Sordariomycetes	Xylariales	Xylariales_unidentified	Xylariales_unidentified SH1647534.08FU	1
zotu736	Ascomycota	Eurotiomycetes	Chaetothyriales	Herpotrichiellaceae	Capronia_unidentified SH1565629.08FU	1
zotu748	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified SH2740131.08FU	1
zotu761	Mortierellomycota	Mortierellomycetes	Mortierellales	Mortierellaceae	Mortierella_pseudozygospora SH1529195.08FU	1
zotu766	Basidiomycota	Agaricomycetes	Russulales	Russulaceae	Russula_unidentified SH1524315.08FU	1
zotu782	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified	Fungi_unidentified SH2740131.08FU	1
zotu792	Ascomycota	Sordariomycetes	Hypocreales	Hypocreales_unidentified	Hypocreales_unidentified SH1524497.08FU	1
zotu828	Ascomycota	Dothideomycetes	Pleosporales	Pleosporales_unidentified	Pleosporales_unidentified SH1582439.08FU	1
zotu846	Ascomycota	Sordariomycetes	Hypocreales	Clavicipitaceae	Metarhizium_novozealandicum SH1552453.08FU	1
zotu877	Ascomycota	Eurotiomycetes	Chaetothyriales	Herpotrichiellaceae	Capronia_unidentified SH1565629.08FU	1
zotu897	Basidiomycota	Agaricomycetes	Auriculariales	Auriculariales_unidentified	Auriculariales_unidentified SH1560208.08FU	1
zotu90	Basidiomycota	Tremellomycetes	Tremellales	Trimorphomycetaceae	Saitozyma_podzolica SH1565595.08FU	1
zotu937	Ascomycota	Pezizomycetes	Pezizales	Sarcosomataceae	Plectania_campylospora SH1564345.08FU	1
zotu946	Basidiomycota	Agaricomycetes	Hymenochaetales	Schizoporaceae	Xylodon_brevisetus SH1517836.08FU	1
zotu952	Ascomycota	Eurotiomycetes	Chaetothyriales	Trichomeriaceae	Brycekendrickomyces_acaciae SH1573318.08FU	1