

Table S1. List of the species used to infer the phylogenetic position of the strains in study by ML ITS trees, reported respectively in Figure S3-S6. T indicates ex-type strains.

Species ID	Collection No	Source	Country	Accession No	References
Herpotrichiellaceae ITS tree					
<i>Cyphellophora europaea</i>	CBS 656.82	Human nail	France	JQ766442	[1]
<i>Cyphellophora olivacea</i>	IFM 53357	-	-	AB190379	[1]
<i>Cyphellophora olivacea</i>	CCFEE 6619	Etruscan tomb	Italy	MT472271	[2]
<i>Cyphellophora reptans</i>	CBS 113.85 T	Foodstuff	Sweden	JQ766445	[1]
<i>Cyphellophora sessilis</i>	CBS 243.85 T	Resin of <i>Picea abies</i>	Netherlands	EU514700	[3]
<i>Cyphellophora sessilis</i>	CBS 238.93	Styrene air biofilter	Netherlands	AY857541	[3]
<i>Cyphellophora</i> sp.	CCFEE 6668	Etruscan tomb	Italy	MT472288	[1]
<i>Exophiala bergeri</i>	CBS 353.52 T	Chromomycosis, man	Canada	EF551462	[4]
<i>Exophiala bergeri</i>	UTHSC94-540	Index finger	USA	EF025404	[4]
<i>Exophiala bonariae</i>	CBS 139957 T = CCFEE 5792	Marble, funerary monument	Italy	JX681046	[5]
<i>Exophiala bonariae</i>	CCFEE 5899	Marble, funerary monument	Italy	KP791795	[5]
<i>Exophiala capensis</i>	CBS 128771 T = CPC 18473	Leaf bracts of <i>Phaenocoma prolifera</i>	South Africa	JF499841	[6]
<i>Exophiala castellanii</i>	CBS 158.58 T = ATCC 18657 = IFM 4702 = MUCL 10097	Skin scrapings, human patient	Sri Lanka	MH857734	[7]
<i>Exophiala castellanii</i>	CBS 110025	Drinking water	Germany	JF747072	[7]
<i>Exophiala crusticola</i>	CP141b T	Soil crust	USA	AM048755	[8]
<i>Exophiala dermatitidis</i>	CBS 207.35 T	Facial chromomycosis	Japan	AF050269	[9]
<i>Exophiala dermatitidis</i>	CBS109154	Brain human	South Korea	AY857525	[9]
<i>Exophiala dermatitidis</i>	NH 166	bathroom	Japan	AB498923	[9]
<i>Exophiala equina</i>	CBS 119.23 T	Horse	Italy	JF747094	[7]
<i>Exophiala equina</i>	IFM 46120	Soil	Brazil	LC600987	[7]
<i>Exophiala heteromorpha</i>	CBS 633.69= DAOM 75853k = MUCL 15475	Railway tie	Canada	AY857522	[9]
<i>Exophiala heteromorpha</i>	CBS 232.33 T= CDC B-2823 = MUCL 9894	Wood pulp	Sweden	AY857524	[9]
<i>Exophiala jeanselmei</i>	CBS 528.76= ATCC 10224	Skin, human	-	AY857530	[10]
<i>Exophiala jeanselmei</i>	CBS 507.90 T	Man, mycethoma	Uruguay	AF050271	[10]
<i>Exophiala lecanii-corni</i>	CBS 123.33	Scale insect, <i>Lecanium corni</i>	-	AY857528	[9]
<i>Exophiala lecanii-corni</i>	CBS 102400	Air biofilter	USA	AY857527	[9]
<i>Exophiala lecanii-corni</i>	CCFEE 5689	Soap dispenser washing machine	Italy	JX681038	[11]
<i>Exophiala mesophila</i>	CBS 402.95 T	Shower joint	Germany	JF747111	[7]

<i>Exophiala mesophila</i>	CBS 119910	Dental waterline	USA	JF747113	[7]
<i>Exophiala mesophila</i>	CCFFEE 5821	Kitchen sponge	Italy	JX681041	[11]
<i>Exophiala nigra</i>	CBS 535.94 T	Arctic water	Russia	MH862481	[4]
<i>Exophiala nigra</i>	CBS 546.82	Arctic water	Russia	MH861525	[4]
<i>Exophiala oligosperma</i>	CBS 113408	Toluene air biofilter	Spain	AY857531	[9]
<i>Exophiala oligosperma</i>	CBS 725.88 T	Tumor, human	Germany	AY163551	[9]
<i>Exophiala oligosperma</i>	CBS 124190	Bathroom flask	the Netherlands	GQ426977	[9]
<i>Exophiala oligosperma</i>	CBS 579.76	Brain, human	Japan	AY857533	[9]
<i>Exophiala opportunistica</i>	CBS 109811 T	Drinking water	Germany	JF747123	[9]
<i>Exophiala phaeomuriformis</i>	CBS 124194	Bathroom flask	the Netherlands	GQ426970	[12]
<i>Exophiala phaeomuriformis</i>	CBS 137224	Concrete railway sleeper	Turkey	KJ522802	[12]
<i>Exophiala pisciphila</i>	CBS 537.73 T	Channel catfish, Alabama	USA	AF050272	[7]
<i>Exophiala pisciphila</i>	CCF 4488	Stomach of <i>Paracheirodon axelrodi</i>	Czech Republic	LT604105	[7]
<i>Exophiala salmonis</i>	CBS 157.67 T	Cerebral mycetoma	Canada	AF050274	[7]
<i>Exophiala salmonis</i>	CBS 110371	Drinking water	the Netherlands	JF747139	[7]
<i>Exophiala sideris</i>	CBS 121818 T	Berry of <i>Sorbus aucuparia</i>	the Netherlands	HQ452311	[13]
<i>Exophiala sideris</i>	CBS 121828	Oak railway tie	the Netherlands	HQ452325	[13]
<i>Exophiala</i> sp.	CCFEE 6622	Etruscan tomb	Italy	MT472280	[1]
<i>Exophiala spinifera</i>	CBS 899.68 T=ATCC 18218 = DSM 1217	Nasal granuloma, human	USA	AY156976	[4]
<i>Exophiala spinifera</i>	CBS 101537	Cactus	Venezuela	AY156970	[4]
<i>Exophiala xenobiotica</i>	CBS 118157 T	Oil contaminated soil	Venezuela	NR_11120	[14]
<i>Exophiala xenobiotica</i>	CBS 117647=UTHSC 00-2163	Wrist wound, human	USA	KP132147.	[14]
<i>Exophiala xenobiotica</i>	CBS 522.76	Decaying timber	UK	KP132164	[14]
<i>Minimelanolcus melanicus</i>	MFLUCC 15-0415 T	Decaying wood submerged in a stream	China	KR215608	[15]
<i>Minimelanolocus curvatus</i>	MFLUCC 15-0259 T	Decaying wood submerged in a stream	China	KR215614	[15]
<i>Rhinocladiella similis</i>	dH 13054	Brain, human	Slovenia	AY857529	[10]
<i>Rhinocladiella similis</i>	CBS 120259	biofilter eliminating gasoline vapors	-	KP132555	[16]
<i>Rhinocladiella similis</i>	CBS 111763 T	Chronic cutaneous ulcer, human	Brazil	MH862885	[10]
Trichomeriaceae ITS tree					
<i>Bradomyces alpinus</i>	CCFEE 5493 T=CBS138368 = CCF 4803	Natural rock, Monte Rosa	Italy	NR_132844	[17]
<i>Bradomyces graniticola</i>	CCF 5193 T	Granite wall of a metro station	Sweden	NR_153653	[18]
<i>Bradomyces oncorhynchi</i>	CCF 4369 T= CBS 133066 = CCFEE 6134	Spleen of <i>Oncorhynchus mykiss</i>	Czech Republic	HG426062	[17]

<i>Knufia aspidioti</i>	BJ01A29	Scale insect, <i>Aspidioti</i> sp.	China	KF589944	[19]
<i>Knufia aspidioti</i>	BJ01A10	Scale insect, <i>Aspidioti</i> sp.	China	KF589943	[19]
<i>Knufia cryptophialidica</i>	DAOM 216555 T	Black galls, <i>Populus tremuloides</i>	Canada	JN040501	[20]
<i>Knufia endospora</i>	UAMH 10396	Bark, <i>Populus tremuloides</i>	Canada	JN040510	[21]
<i>Knufia epidermidis</i>	CBS 120353	Skin infection	China	EU730589	[22]
<i>Knufia epidermidis</i>	CBS 123466	Nail with onychomycosis	China	FJ355955	[22]
<i>Knufia mediterranea</i>	CCFEE 6205	Marble, funerary monument	Italy	KP791794	[23]
<i>Knufia mediterranea</i>	CCFEE 6211	Marble, funerary monument	Italy	KP791793	[23]
<i>Knufia peltigerae</i>	UAMH 11090	thalli of <i>Peltigera rufescens</i>	Luxembourg	HQ709322	[23]
<i>Knufia peltigerae</i>	CGMCC 3.17296	Rock	China	KP226561	[24]
<i>Knufia perfecta</i>	CPC 12173	<i>Prunus</i> sp.	Canada	EU035422	[25]
<i>Knufia perfecta.</i>	IRAN 2553C T	Dead branch, <i>Juglans regia</i>	Iran	MF062036	[25]
<i>Knufia perforans</i>	CBS 885.95 T	Marble	Greece	AJ244230	[22]
<i>Knufia petricola</i>	CBS 123.872= A95	Marble statue	Italy	KC978734	[23]
<i>Knufia petricola</i>	CBS 726.95 T	Marble statue	Italy	KC978746	[26]
<i>Knufia petricola</i>	CBS 725.95	Calcaremite obelisque	Greece	KC978745	[23]
<i>Knufia petricola</i>	IMI 38917=ch49	Marble	Crimea	AJ507323	[23]
<i>Knufia separata</i>	CGMCC 3.17337	Rock	China	KP174856	[24]
<i>Knufia</i> sp.	CCFEE 5323	Thallus of <i>Lecanora</i> sp	Antarctica	FJ392866	[22]
<i>Knufia</i> sp.	CCFEE 5314	Thallus of <i>Xanthoria elegans</i>	Antarctica	FJ392865	[22]
<i>Knufia</i> sp.	CCFEE 5817	Gasoline car tank	Italy	Unpublished	[11]
Knufia sp.	MUT4888	Mediterranean Sea, <i>Flabellia petiolata</i>	Italy	KR014348	Unpublished
<i>Knufia tsuneda</i>	CPC 22931 T	Soil	Spain	HG003669	[27]
<i>Knufia vaticanii</i>	CBS 139722 T=CCFEE 5939	Travertine	Vatican City State	KP791780	[23]
<i>Lithohypha aloicola</i>	CPC 35996 T	Leaves of <i>Aloe</i> sp.	South Africa	MN562103	[28]
<i>Lithohypha guttulata</i>	CCFEE 5884	Marble	Vatican City State	KP791768	[23]
<i>Lithohypha guttulata</i>	CCFEE 5909	Marble	Vatican City State	KP791771	[23]
<i>Metulocladosporiella musicola</i>	CBS113873	<i>Musa sapientum</i>	Mozambique	DQ008135	[29]
<i>Metulocladosporiella musicola</i>	CBS 110960 T	<i>Musa acuminata</i>	South Africa	DQ008127	[29]
<i>Metulocladosporiella musicola</i>	CBS113864	<i>Musa</i> sp.	Uganda	DQ008133	[29]
<i>Metulocladosporiella musicola</i>	CBS113865	<i>Musa sapientum</i>	Uganda	DQ008134	[29]
<i>Trichomerium deniquatum</i>	MFLUCC 10-0884 T	Leaf of <i>Psidium guajava</i>	Thailand	JX3136554	[30]
<i>Trichomerium foliicola</i>	MFLUCC 10-0078 T	Leaf of <i>Murray apaniculata</i>	Thailand	JX313655	[30]
<i>Trichomerium foliicola</i>	MFLUCC 10-0054	<i>Mangifera indica</i>	Thailand	JX313651	[30]
Mycosphaerellaceae ITS tree					
<i>Arthrocatena tenebrio</i>	CBS 136100= CCFEE 5413	Punta Indren, Monte Rosa	Italy	KF309948	[31]

<i>Cladosporium herbarum</i>	CBS 121621=CPC 12177	<i>Hordeum vulgare</i>	the Netherlands	MH863124	[32]
<i>Cladosporium hillianum</i>					
<i>Cladosporium iridis</i>	CBS 138.40T = CPC 15458	<i>Iris</i> sp.	the Netherlands	EF679370	[33]
<i>Hyphoconis sterilis</i>	CBS 118321= TRN287	Natural rocks, Central Mountain System	Spain	AY843126	[31]
<i>Neodevriesia</i> sp.	CBS 118302 = TRN142	Rock sample: Mallorca	Spain	AY559374	[31]
<i>Neodevriesia agapanthi</i>	CBS 132689 T=CPC 19833	Leaves of <i>Agapanthus africanus</i>	South Africa	JX069875	[31]
<i>Neodevriesia bulbillosa</i>	CBS 118285 T=TRN81	Limestone, Mallorca	Spain	AY559341	[31]
<i>Neodevriesia capensis</i>	CBS 130602 T = CPC 18299	<i>Protea</i> sp.	South Africa	JN712501	[28]
<i>Neodevriesia capensis</i>	CPC 13981	<i>Protea repens</i>	South Africa	EU707887	[28]
<i>Neodevriesia imbrexigena</i>	CAP 1371	Glazed decorative tiles in association with <i>Trebouxia</i> sp.	Portugal	JX915745	[34]
<i>Neodevriesia imbrexigena</i>	CAP 1373	Glazed decorative tiles in association with <i>Trebouxia</i> sp.	Portugal	JX915746	[34]
<i>Neodevriesia knoxdaviesii</i>	CBS 122898=CPC 14905	<i>Protea</i> sp.	South Africa	EU707866	[28]
<i>Neodevriesia lagerstroemiae</i>	CBS 125422 T=CPC 14403	<i>Lagerstroemia indica</i>	USA	GU214634	[28]
<i>Neodevriesia modesta</i>	CBS 137182 T=CCFEE 5672	Wallpainting, Cave,	Italy	KF309984	[31]
<i>Neodevriesia queenslandica</i>	CBS 129527 T = CPC 17306	<i>Scaevola taccada</i>	Australia	JF951148	[28]
<i>Neodevriesia sardiniae</i>	CBS 139724 T = CCFEE 6202	Marble, funerary monument	Italy	KP791765	[23]
<i>Neodevriesia sardiniae</i>	CCFEE 6210	Marble, funerary monument	Italy	KP791766	[23]
<i>Neodevriesia shakazului</i>	CBS 133579 T= CPC 19784	Leaves of <i>Aloe</i> sp.	South Africa	KC005776	[28]
<i>Neodevriesia simplex</i>	CBS 137183 T=CCFEE 5681	Wallpainting, Cave	Italy	KF309985	[31]
<i>Neodevriesia stirlingiae</i>	CBS 133581 T=CPC 19948E	leaves of <i>Stirlingia latifolia</i>	Australia	KC005778	[28]
<i>Neodevriesia strelitziae</i>	CBS 122379 T	leaves of <i>Strelitzia nicolai</i>	South Africa	EU436763	[28]
<i>Neodevriesia</i> sp.	CBS 118302=TRN142	Limestone, Mallorca	Spain	AY559374	[31]
<i>Extremus</i> sp.	CBS 18300=TRN137	Limestone, Mallorca	Spain	AY559369	[31]
<i>Extremus adstrictus</i>	CBS 118292 T= TRN96	Limestone, Mallorca	Spain	AY559346	[31]
<i>Extremus antarcticus</i>	CBS 136104=CCFEE 5207	Rock, Inexpressible Island	Antarctica	KF309980	[31]
<i>Extremus antarcticus</i>	CCFEE 5312	Rock, Vegetation Island	Antarctica	KF309979	[31]
<i>Petrophila incerta</i>	CBS 118305=TRN62	Limestone, Mallorca	Spain	AY559328	[31]
<i>Petrophila incerta</i>	CBS 118608 T=TRN139b	Limestone, Mallorca	Spain	AY559372	[31]
<i>Saxophila tyrrhenica</i>	CBS 139725 T = CCFEE 5935	Marble angels	Italy	KP791764	[23]
<i>Saxophila tyrrhenica</i>	TRN65	Limestone, Mallorca	Spain	AY559329	[23]
<i>Vermiconidia antarctica</i>	CBS 136107 T=CCFEE 5488	Rock, Battleship Promontory	Antarctica	KF309982	[31]
<i>Vermiconidia antarctica</i>	CBS 136108=CCFEE 5489	Rock, Battleship Promontory	Antarctica	KF309983	[31]
<i>Vermiconia flagrans</i>	CBS 118283 T=TRN124	Limestone, Mallorca	Spain	AY559359	[31]
<i>Vermiconidia flagrans</i>	CBS 118284=TRN104	Limestone, Mallorca	Spain	AY559348	[31]

Sympoventuriaceae ITS tree

<i>Scolecobasidium anellii</i>	CBS 284.64 T	Cartellana cave, stalactites	Italy	FR832477	[35]
<i>Scolecobasidium anomalum</i>	CBS 131816 T	Lascaux cave, painted gallery	France	HE575201	[35]
<i>Scolecobasidium aquaticum</i>	CBS 140316 T	cold shower of fish-processing company	Germany	NR_164397	[20]
<i>Scolecobasidium bacilliforme</i>	CBS 100442 T	biofilm on stainless steel in drinking water	Germany	NR_155566	[36]
<i>Scolecobasidium capsici</i>	CPC 28782 T	Capsicum annuum	Thailand	NR_155602	[37]
<i>Scolecobasidium constricta</i>	CBS 202.27 T	Soil	USA	AB161063	[37]
<i>Scolecobasidium cordanae</i>	CBS 475.80 T	Dead leaf	Colombia	KF156022	[38]
<i>Scolecobasidium dracaenae</i>	CBS 141323	Leaf spot, <i>Dracaena</i> sp.	USA	NR_145404	[39]
<i>Scolecobasidium gamsii</i>	CBS 239.78 T	Plant leaf	Sri Lanka	KF156019	[38]
<i>Scolecobasidium globale</i>	CBS 119644 T	Domestic sample	Germany	KF961086	[40]]
<i>Scolecobasidium humicola</i>	CBS 116655 T	Peat soil	Canada	HQ667521	[41]
<i>Scolecobasidium icarus</i>	CBS 536.69 T	Forest soil	Canada	HQ667524	[38]
<i>Scolecobasidium lascauxense</i>	CBS 131815 T	Lascaux cave, passageway	France	FR832474	[35]
<i>Scolecobasidium longiphorum</i>	CBS 435.76	Soil	Canada	KF156038	[41]
<i>Scolecobasidium macrozamia</i>	CBS 102491	<i>Macrozamia</i> (Zamiaceae) leaf litter	Australia	KF156021	[42]
<i>Scolecobasidium minimum</i>	CBS 510.71 T	Rhizosphere	Nigeria	HQ667522	[41]
<i>Scolecobasidium musae</i>	CBS 729.95	Fruit surface of Japanese fiber banana, <i>Musa basjoo</i>	China	KF156029	[20]
<i>Scolecobasidium olivaceum</i>	CBS 137170 T	Bronchoalveolar fluid	USA	LM644521	[38]
<i>Scolecobasidium pandanicolum</i>	CPC 263170 T	Leaves of <i>Pandanus</i> sp.	France	NR145399	[43]
<i>Scolecobasidium podocarpi</i>	CPC 37078 T=CBS 143174	<i>Podocarpus grayae</i>	Australia	NR_156654	[43]
<i>Scolecobasidium ramosum</i>	CBS 137173 T	Nail	USA	LM644524	[38]
<i>Scolecobasidium robustum</i>	CBS 112.97 T	Leaf litter of <i>Quercus ilex</i>	Spain	NR_155567	[36]
<i>Scolecobasidium sexuale</i>	CBS 131765 T	Domestic sample	South Africa	KF156018	[38]
<i>Scolecobasidium tshawytschae</i>	CBS 100438 T	Fish	USA	HQ667562	[41]
<i>Scolecobasidium verrucosum</i>	CBS 383.81 T	Soil	India	KF156015	[42]
<i>Scolecobasidium ailanthi</i>	MFLUCC 17-0923	<i>Ailanthus</i> sp.	Thailand	NR_163326	[44]
<i>Scolecobasidium phaeophorum</i>	CBS 206.96	Leaf coastal rain forest	Papua New Guinea	NR_155565	[36]
<i>Verruconis calidifluminalis</i>	IFM 54738	Hot spring river	Japan	AB385698	[45]
<i>Verruconis gallopava</i>	CBS 437.64	Brain	Turkey	HQ667553	[45]

ATCC American Type Culture Collection, Rockville, Maryland, USA; CAP Culture Collection of Alan Phillips, housed at M&B-BioISI, Tec Labs, University of Lisbon, Portugal; CBS CBS Fungal Biodiversity Centre, Centraalbureau voor Schimmelcultures, Utrecht, The Netherlands; CCF Culture Collection of Fungi, Dept of Botany, Charles University, Prague, Czech Republic; CCFEE Culture Collection of Fungi from Extreme Environments, Dept. of Ecological and Biological Sciences, University of Tuscia, Viterbo, Italy; CDC Centers for Disease Control and Prevention, Atlanta, Georgia, USA, CGMCC China General Microbiological Culture Collection Center Institute of Microbiology Chinese Academy of Sciences Beijing China; CPC Collection Pedro Crous, housed at CBS; DSMZ Deutsche Sammlung von Mikroorganismen und Zellkulturen, Baunschweig, Germany; DAOM Plant Research Institute, Department of Agriculture (Mycology), Ottawa, Canada; dH Culture collection of Sybren de Hoog, housed at

CBS; IFM Research Center for Pathogenic Fungi and Microbial Toxicoses, Chiba, Japan; *IMI* International Mycological Institute Collection is embedded in the CABI UK Centre in Egham, UK; IRAN Iranian fungal culture collection part of the Herbarium Ministerii Iranici Agriculturae; Tehran, Iran MFLUCC: Mae Fah Luang University Culture Collection, Thailand; *MUCL* Mycothèque de l'Université catholique de Louvain, Louvain-la-Neuve, Belgium; *MUT* Mycotheca Universitatis Taurinensis, Dept of life Sciences, University of Torino; *NH* Nabuo Hamada personal collection; *TRN* T. Ruibal personal collection; *UAMH* University of Alberta Microfungus Collection and Herbarium, Canada, *UTHSC* University of Texas Health Science, Center Fungus Testing Laboratory -Dept. of Pathology, San Antonio, Texas, U.S.A.

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