

Supplementary Table S2. Clone libraries

Identification of unique OTUs recovered from six of *T. melanosporum* plantations in Teruel, Spain. 3A, 5A, 7A, 10A, 14A and 20A refer to the age number (years since planting) of the host tree at the time of soil sample collection

OTUs	Description	Reference	Score	E-value	Organism
3A-OTU1	Fusarium sp 2 TMS 2011	HQ630976	1066	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Nectriaceae;mitosporic Nectriaceae; Fusarium; Fusarium oxysporum species complex.</i>
3A-OTU2	Tuber melanosporum	GU979083	1190	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina;Pezizomycetes; Pezizales; Tuberales; Tuber.</i>
3A-OTU3	Phoma herbarum	FN868459	1042	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Didymellaceae; mitosporic Didymellaceae; Phoma.</i>
3A-OTU4	Cryptococcus adeliensis	FN400760	787	0	<i>Eukaryota; Fungi; Dikarya; Basidiomycota; Agaricomycotina; Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;Cryptococcus.</i>
3A-OTU5	Mortierella sp TR065	HQ608097	1184	0	<i>Eukaryota; Fungi; Fungi incertae sedis; Early diverging fungal lineages; Mortierellomycotina; Mortierellales; Mortierellaceae;Mortierella.</i>
3A-OTU6	Fusarium sp GrS5	FJ904916	669	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Nectriaceae;mitosporic Nectriaceae; Fusarium; Fusarium oxysporum speciescomplex.</i>
3A-OTU7	uncultured Mortierellales	FN689674	1199	0	<i>Eukaryota; Fungi; Fungi incertae sedis; Early diverging fungal lineages; Mortierellomycotina; Mortierellales; Mortierellaceae; Mortierella.lineages; Mortierellomycotina; Mortierellales; environmental samples.</i>
3A-OTU8	Mortierella sp T3	JF439488	1297	0	<i>Eukaryota; Fungi; Fungi incertae sedis; Early diverging fungal lineages; Mortierellomycotina; Mortierellales; Mortierellaceae;Mortierella.</i>
3A-OTU9	Pleosporales sp s084	HQ649996	715	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Dothideomycetes; Pleosporomycetidae; Pleosporales; unclassified Pleosporales.</i>
3A-OTU10	uncultured Ascomycota	HM162271	294	2E-78	<i>Eukaryota; Fungi; Dikarya; Ascomycota; environmental samples.</i>
3A-OTU11	uncultured Ascomycota	EU490177	303	4E-81	<i>Eukaryota; Fungi; Dikarya; Ascomycota; environmental samples.</i>
3A-OTU12	Phoma sp P49E1	JN207353	1029	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Didymellaceae; mitosporic Didymellaceae; Phoma.</i>
3A-OTU13	Fusarium oxysporum	GU566205	1075	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Nectriaceae;mitosporic Nectriaceae; Fusarium; Fusarium oxysporum speciescomplex.</i>
3A-OTU14	Tuber melanosporum	GU979083	704	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina;Pezizomycetes; Pezizales; Tuberales; Tuber.</i>
3A-OTU15	Fusarium sp 5/97 45	AJ279478	1092	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Nectriaceae;mitosporic Nectriaceae; Fusarium; Fusarium oxysporum speciescomplex.</i>
3A-OTU16	uncultured Mortierella	GU327522	1090	0	<i>Eukaryota; Fungi; Fungi incertae sedis; Early diverging fungal lineages; Mortierellomycotina; Mortierellales; Mortierellaceae;environmental samples.</i>

OTUs	Description	Reference	Score	E-value	Organism
3A-OTU17	Coniosporium sp MA4567	AJ971451	985	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; mitosporic Ascomycota; Coniosporium.</i>
3A-OTU18	uncultured Filobasidiales	FN689678	1238	0	<i>Eukaryota; Fungi; Dikarya; Basidiomycota; Agaricomycotina; Tremellomycetes; environmental samples.</i>
3A-OTU19	Fusarium sp GrS5	FJ904916	658	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Nectriaceae; mitosporic Nectriaceae; Fusarium; Fusarium oxysporum speciescomplex.</i>
5A-OTU1	Tuber melanosporum	GU979083	1190	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Pezizomycetes; Pezizales; Tuberaceae; Tuber.</i>
5A-OTU2	Fusarium sp GrS5	FJ904916	1072	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Nectriaceae; mitosporic Nectriaceae; Fusarium; Fusarium oxysporum speciescomplex.</i>
5A-OTU3	Phoma herbarum	FN868459	1000	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Didymellaceae; mitosporic Didymellaceae; Phoma.</i>
5A-OTU4	Cochliobolus sp TR169	HQ608150	704	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Pleosporaceae; Cochliobolus.</i>
5A-OTU5	Tetracladium sp CBS 118523	AJ890435	1046	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; mitosporic Ascomycota; Tetracladium.</i>
5A-OTU6	Pleosporales sp s048	HQ649995	979	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Dothideomycetes; Pleosporomycetidae; Pleosporales; unclassified Pleosporales.</i>
5A-OTU7	Pezizales sp P10	AJ969618	763	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Pezizomycetes; Pezizales; unclassified Pezizales.</i>
5A-OTU8	Stachybotrys chartarum	AF206273	1138	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; mitosporic Hypocreales; Stachybotrys.</i>
5A-OTU9	Alnicola silvaenovae	JN943981	1062	0	<i>Eukaryota; Fungi; Dikarya; Basidiomycota; Agaricomycotina; Agaricomycetes; Agaricomycetidae; Agaricales; Cortinariaceae; Alnicola.</i>
5A-OTU10	Tuber melanosporum	GU979083	1190	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Pezizomycetes; Pezizales; Tuberaceae; Tuber.</i>
5A-OTU11	Hymenogaster citrinus	EU784360	734	0	<i>Eukaryota; Fungi; Dikarya; Basidiomycota; Agaricomycotina; Agaricomycetes; Agaricomycetidae; Agaricales; Hymenogastraceae; Hymenogaster.</i>
5A-OTU12	uncultured Spizellomycetales	FJ554442	340	3E-92	<i>Eukaryota; Fungi; Chytridiomycota; Chytridiomycetes; Spizellomycetales; environmental samples.</i>
5A-OTU13	uncultured Ascomycota	HM161997	1085	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; environmental samples.</i>
5A-OTU14	Fusarium solani	FJ478128	1085	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Nectriaceae; mitosporic Nectriaceae; Fusarium; Fusarium oxysporum speciescomplex.</i>
5A-OTU15	uncultured Thelephoraceae	AY945290	1186	0	<i>Eukaryota; Fungi; Dikarya; Basidiomycota; Agaricomycotina; Agaricomycetes; Thelephorales; Thelephoraceae; environmental samples.</i>
5A-OTU16	Microdochium bolleyi	GU566298	1094	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Xylariomycetidae; Xylariales; mitosporic Xylariales; Microdochium.</i>

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OTUs	Description	Reference	Score	E-value	Organism
5A-OTU17	uncultured Pleosporales	GU909871	536	2E-151	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Dothideomycetes; Pleosporomycetidae; Pleosporales; environmental samples.</i>
5A-OTU18	Tuber melanosporum	GU979083	763	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Pezizomycetes; Pezizales; Tuberaceae; Tuber.</i>
5A-OTU19	Fusarium oxysporum	GU566205	1070	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Nectriaceae; mitosporic Nectriaceae; Fusarium; Fusarium oxysporum speciescomplex.</i>
5A-OTU20	Fusarium polyphialidicum	HQ607880	1020	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Nectriaceae; mitosporic Nectriaceae; Fusarium; Fusarium oxysporum speciescomplex.</i>
5A-OTU21	Podospira communis	EF197074	950	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Sordariomycetidae; Sordariales; Lasiosphaeriaceae; Podospira.</i>
7A-OTU1	Fusarium sp 2 TMS 2011	HQ630976	1079	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Nectriaceae; mitosporic Nectriaceae; Fusarium; Fusarium oxysporum speciescomplex.</i>
7A-OTU2	Gibberella sp 1 TMS 2011	HQ630977	1090	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Nectriaceae; Gibberella.</i>
7A-OTU3	Tuber melanosporum	GU979083	1190	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Pezizomycetes; Pezizales; Tuberaceae; Tuber.</i>
7A-OTU4	Phoma herbarum	FN868459	813	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Didymellaceae; mitosporic Didymellaceae; Phoma.</i>
7A-OTU5	Cryptococcus aerius	AF444376	1175	0	<i>Eukaryota; Fungi; Dikarya; Basidiomycota; Agaricomycotina; Tremellomycetes; Filobasidiales; mitosporic Filobasidiales; Cryptococcus.</i>
7A-OTU6	Physoderma maydis	AY997072	289	9E-77	<i>Eukaryota; Fungi; Blastocladiomycota; Blastocladiomycetes; Blastocladales; Physodermataceae; Physoderma.</i>
7A-OTU7	Hygrophorus latitabundus	AF231915	213	6E-54	<i>Eukaryota; Fungi; Dikarya; Basidiomycota; Agaricomycotina; Agaricomycetes; Agaricomycetidae; Agaricales; Hygrophoraceae; Hygrophorus.</i>
7A-OTU8	cf Verticillium sp 254/HP3	AY172097	835	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; mitosporic Hypocreales; Verticillium.</i>
7A-OTU9	Mortierella alpina	AJ271629	1184	0	<i>Eukaryota; Fungi; Fungi incertae sedis; Early diverging fungal lineages; Mortierellomycotina; Mortierellales; Mortierellaceae; Mortierella.</i>
7A-OTU10	Fusarium sp P48E1	JN207348	673	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Nectriaceae; mitosporic Nectriaceae; Fusarium; Fusarium oxysporum speciescomplex.</i>
7A-OTU11	Fusarium oxysporum	JF439473	1053	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Nectriaceae; mitosporic Nectriaceae; Fusarium; Fusarium oxysporum speciescomplex.</i>
7A-OTU12	Tuber melanosporum	U89359	769	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Pezizomycetes; Pezizales; Tuberaceae; Tuber.</i>
7A-OTU13	Pyrenochaeta sp shylm24	HQ446092	1002	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Pleosporaceae; mitosporic Pleosporaceae; Pyrenochaeta.</i>

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OTUs	Description	Reference	Score	E-value	Organism
10A-OTU1	Glomus irregulare	JF820488	126	9E-28	<i>Eukaryota; Fungi; Glomeromycota; Glomeromycetes; Glomerales; Glomeraceae; Rhizophagus.</i>
10A-OTU2	Cryptococcus aerius	AF444376	1186	0	<i>Eukaryota; Fungi; Dikarya; Basidiomycota; Agaricomycotina; Tremellomycetes; Filobasidiales; mitosporic Filobasidiales; Cryptococcus.</i>
10A-OTU3	Fusarium oxysporum	JF439472	1105	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Nectriaceae; mitosporic Nectriaceae; Fusarium; Fusarium oxysporum speciescomplex.</i>
10A-OTU4	Cordyceps sp CY194	HQ608023	1077	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Cordycipitaceae; Cordyceps.</i>
10A-OTU5	Tuber melanosporum	GU979083	1190	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Pezizomycetes; Pezizales; Tuberaceae; Tuber.</i>
10A-OTU7	Coniosporium sp MA4666	AJ971447	1090	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; mitosporic Ascomycota; Coniosporium.</i>
10A-OTU8	Mortierella alpina	AJ271629	1282	0	<i>Eukaryota; Fungi; Fungi incertae sedis; Early diverging fungal lineages; Mortierellomycotina; Mortierellales; Mortierellaceae; Mortierella.</i>
10A-OTU9	Mortierella sp TR065	HQ608097	813	0	<i>Eukaryota; Fungi; Fungi incertae sedis; Early diverging fungal lineages; Mortierellomycotina; Mortierellales; Mortierellaceae; Mortierella.</i>
10A-OTU10	Glomus irregulare	JF820488	126	9E-28	<i>Eukaryota; Fungi; Glomeromycota; Glomeromycetes; Glomerales; Glomeraceae; Rhizophagus.</i>
10A-OTU11	Tetracladium furcatum	GU586842	926	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; mitosporic Ascomycota; Tetracladium.</i>
10A-OTU12	Tuber melanosporum	GU979083	1099	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Pezizomycetes; Pezizales; Tuberaceae; Tuber.</i>
10A-OTU13	Fusarium oxysporum	GU566205	1075	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Nectriaceae; mitosporic Nectriaceae; Fusarium; Fusarium oxysporum speciescomplex.</i>
10A-OTU14	Tetracladium sp CBS 118523	AJ890435	1046	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; mitosporic Ascomycota; Tetracladium.</i>
10A-OTU15	Cladosporium sp TMS 2011	HQ631003	1088	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Dothideomycetes; Dothideomycetidae; Capnodiales; Davidiellaceae; mitosporic Davidiellaceae; Cladosporium.</i>
10A-OTU16	Cryptococcus sp MD76 1BY	EU626069	1013	0	<i>Eukaryota; Fungi; Dikarya; Basidiomycota; Agaricomycotina; Tremellomycetes; Filobasidiales; mitosporic Filobasidiales; Cryptococcus.</i>
10A-OTU17	Stachybotrys cylindrospora	AF081474	1109	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; mitosporic Hypocreales; Stachybotrys.</i>
14A-OTU1	Tuber melanosporum	GU979083	1190	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Pezizomycetes; Pezizales; Tuberaceae; Tuber.</i>
14A-OTU2	Xylogone sphaerospora	GQ272626	612	4E-174	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Leotiomycetes; Leotiomycetes incertae sedis; Xylogone.</i>
14A-OTU3	Cryptococcus aerius	AF444376	1186	0	<i>Eukaryota; Fungi; Dikarya; Basidiomycota; Agaricomycotina; Tremellomycetes; Filobasidiales; mitosporic Filobasidiales; Cryptococcus.</i>

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OTUs	Description	Reference	Score	E-value	Organism
14A-OTU4	Tetracladium sp CBS 118523	AJ890435	990	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; mitosporic Ascomycota; Tetracladium.</i>
14A-OTU5	Cryptococcus rajasthanensis	AM262325	658	0	<i>Eukaryota; Fungi; Dikarya; Basidiomycota; Agaricomycotina; Tremellomycetes; Filobasidiales; mitosporic Filobasidiales; Cryptococcus.</i>
14A-OTU6	uncultured Mortierellales	FN689674	1201	0	<i>Eukaryota; Fungi; Fungi incertae sedis; Early diverging fungal lineages; Mortierellomycotina; Mortierellales; Mortierellaceae; Mortierella lineages; Mortierellomycotina; Mortierellales; environmental samples.</i>
14A-OTU8	fungal endophyte MUT 2726	AF373062	562	4E-159	<i>Eukaryota; Fungi; Dikarya; Ascomycota.</i>
14A-OTU10	Hymenogaster populetorum	GU479361	1173	0	<i>Eukaryota; Fungi; Dikarya; Basidiomycota; Agaricomycotina; Agaricomycetes; Agaricomycetidae; Agaricales; Hymenogastraceae; Hymenogaster.</i>
20A-OTU1	Tuber melanosporum	GU979083	1190	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Pezizomycetes; Pezizales; Tuberaceae; Tuber.</i>
20A-OTU2	Cryptococcus aerius	AF444376	1158	0	<i>Eukaryota; Fungi; Dikarya; Basidiomycota; Agaricomycotina; Tremellomycetes; Filobasidiales; mitosporic Filobasidiales; Cryptococcus.</i>
20A-OTU3	uncultured Spizellomycetales	FJ554442	337	3E-91	<i>Eukaryota; Fungi; Chytridiomycota; Chytridiomycetes; Spizellomycetales; environmental samples.</i>
20A-OTU4	Tuber melanosporum	GU979083	747	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Pezizomycetes; Pezizales; Tuberaceae; Tuber.</i>
20A-OTU5	Scutellospora coralloidea	AF004686	760	0	<i>Eukaryota; Fungi; Glomeromycota; Glomeromycetes; Diversisporales; Scutellosporaceae; Scutellospora</i>
20A-OTU6	Fusarium oxysporum	GU566205	1070	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Nectriaceae; mitosporic Nectriaceae; Fusarium; Fusarium oxysporum species complex.</i>
20A-OTU7	Arthrotrrys conoides	AF106534	905	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Orbiliomycetes; Orbiliales; Orbiliaceae; mitosporic Orbiliaceae; Arthrotrrys.</i>
20A-OTU8	Ilyonectria sp 4 AC 2011	JF735371	1072	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Nectriaceae; Ilyonectria.</i>
20A-OTU9	Microdochium bolleyi	GU566298	1088	0	<i>Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Xylariomycetidae; Xylariales; mitosporic Xylariales; Microdochium.</i>