

Anthropogenic N deposition increases soil C storage by reducing the relative abundance of lignolytic fungi. Elizabeth M. Entwistle, Donald R. Zak, and William A. Argiroff. *Ecological Monographs*.

**APPENDIX S4**

Table S1. Top ten SIMPER results for each type of sample for each collection date. These ten operational taxonomic units (OTUs) had the highest dissimilarity scores between fungal communities under ambient and experimental N deposition, respectively. The low-lignin (LL), high-lignin (HL), and wood (W) substrates were collected after 7 and 18 months of decomposition, while forest floor (FF) and soil (S) were co-collected during the 7-month sampling date. For each OTU, we list its average dissimilarity score, its dissimilarity over its standard deviation (SD), and its contribution (%) to total dissimilarity; we additionally list its average proportional abundance under ambient and experimental N deposition, as well the difference between treatments with declines in mean abundance under experimental N deposition denoted in bold. Furthermore, we list the top BLAST® match to an identified species with outdated nomenclatures retained in parentheses. Based on our knowledge of the biology of these taxa, we gave each OTU a functional assignment: white-rot and lignolytic litter decay (WRL), soft-rot and cellulolytic/hemicellulolytic litter decay (SRCH), brown-rot (BR), weakly lignolytic (WL) and mycorrhizal/biotrophic (MB), with a question mark added (?) if the assignment was tentative. Taxa were assigned to the phyla Basidiomycota (B) and Ascomycota (A), subphyla Agaricomycotina (Ag) and Pezizomycotina (Pez), with assignments to to class, order, and family abbreviated by leaving off the -mycetes, -ales, and -aceae, respectively.

Sample type	months of decomposition	OTU	Average dissimilarity	Dissimilarity/SD	contribution (%)	average proportional abundance of each OTU	functional assignment	Top BLAST match for an identified species	taxonomic placement for that species
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						ambient N	experimental N	change		name	GenBank ID #	sequence identity (%)	query coverage (%)	phylum	Subdivision	class	order	family	genus
F	-	4	1.5	1.5	4.8	0.101	0.030	<b>0.071</b>	WRL	<i>Mycena sanguinolenta</i>	AY207257	99	100	B	Ag	Agarico	Agaric	Mycen	<i>Mycena</i>
F	-	66	1.4	1.5	4.5	0.000	0.036	0.036	WRL (?) <sup>1</sup>	<i>Phaeoclavulina (Ramaria) abietina</i> <sup>1</sup>	JN649369	99	100	B	Ag	Agarico	Gomph	Gomph	<i>Phaeoclavulina</i>
F	-	19	1.3	1.5	4.1	0.059	0.101	0.042	SRCH	<i>Minimedusa polyspora</i>	KC176336	96	100	B	Ag	Agarico	Cantharell		<i>Minimedusa</i>
F	-	84	1.2	1.4	3.6	0.026	0.000	<b>0.025</b>	SRCH	<i>Sistotrema coroniferum</i>	AM259215	97	100	B	Ag	Agarico	Cantharell	Hydn	<i>Sistotrema</i>
F	-	13	1	1.5	3.0	0.100	0.172	0.072	SRCH	<i>Polyscytalum algarvense</i>	GQ303318	92	100	A	-	-	-	-	<i>Polyscytalum</i>
F	-	106	1	0.8	3.0	0.028	0.000	<b>0.028</b>	WRL	<i>Trechispora confinis</i>	AF347081	92	100	B	Ag	Agarico	Trechispor	Hydnodont	<i>Trechispora</i>

F	-	15	0.9	1	2.9	0.021	0.008	<b>0.014</b>	WRL	<i>Mycena plumbea</i>	DQ470813	99	100	B	Ag	Agarico	Agaric	Mycen	<i>Mycena</i>
F	-	20	0.8	3.4	2.5	0.003	0.020	0.017	WRL	<i>Mycena leptcephala</i>	HQ604773	99	100	B	Ag	Agarico	Agaric	Mycen	<i>Mycena</i>
F	-	42	0.8	1.4	2.4	0.014	0.001	<b>0.013</b>	WRL	<i>Marasmius pulcherripes</i>	FJ917601	99	96	B	Ag	Agarico	Agaric	Marasmi	<i>Marasmius</i>
F	-	79	0.7	2.3	2.3	0.016	0.004	<b>0.012</b>	WRL	<i>Mycena leaiana</i>	AF261411	98	100	B	Ag	Agarico	Agaric	Mycen	<i>Mycena</i>
LL	7	17	1.6	1.6	3.6	0.033	0.115	0.082	BR	<i>Antrodia infirma</i>	KC595895	91	100	B	Ag	Agarico	Polypor	Fomitopsid	<i>Antrodia</i>
LL	7	29	1.4	1.6	3.0	0.027	0.106	0.079	SRCH	<i>Phaeohelotium epiphyllum</i>	KJ472236	97	100	A	Pez	Leotio	Heloti	Heloti	<i>Phaeohelotium</i>
LL	7	8	1.2	1.6	2.8	0.060	0.016	<b>0.044</b>	MB	<i>Sebacina vermifera</i>	DQ983815	97	100	B	Pez	Agarico	Sebacin	Sebacin	<i>Sebacina</i>
LL	7	14	1.1	0.8	2.4	0.038	0.000	<b>0.038</b>	WL	<i>Anthostomella leucospermi</i>	EU552100	99	100	A	Pez	Sordario	Xylari	Xylari	<i>Anthostomella</i>

LL	7	77	1	2.6	2.3	0.026	0.023	<b>0.003</b>	SRCH	<i>Dactylella mammillata</i>	KT215290	100	100	B	Pez	Leotio	Orbili	Orbili	<i>Dactylella</i>
LL	7	100	1	1.7	2.2	0.024	0.019	<b>0.005</b>	SRCH (?) <sup>2</sup>	<i>Ceratosebana calospora</i>	AF291304	98	83	B	Ag	Agarico	-	-	<i>Ceratosebana</i>
LL	7	119	1	3.4	2.2	0.016	0.000	<b>0.016</b>	SRCH	<i>Hyalodendriella betulae</i>	EU040232	96	100	A	Pez	Leotio	Heloti		<i>Hyalodendriella</i>
LL	7	60	0.9	1.5	2.1	0.049	0.021	<b>0.028</b>	SRCH	<i>Arthrotrys gephyropaga</i>	AY261168	99	97	A	Pez	Leotio	Heloti	Orbili	<i>Arthrotrys</i>
LL	7	90	0.9	0.7	2.1	0.000	0.037	0.037	MB	<i>Piriformospora indica</i>	KF061284	97	100	B	Ag	Agarico	Sebacin	Sebacin	<i>Piriformospora</i>
LL	7	139	0.9	1	2.0	0.000	0.020	0.020	SRCH	<i>Craterocolla cerasi</i>	KF061265	94	100	B	Ag	Agarico	Sebacin	Sebacin	<i>Craterocolla</i>
HL	7	4	2.8	1.4	5.3	0.160	0.035	<b>0.125</b>	WRL	<i>Mycena sanguinolenta</i>	AY207257	99	100	B	Ag	Agarico	Agaric	Mycen	<i>Mycena</i>
HL	7	16	2.2	0.7	4.2	0.000	0.112	0.112	SRCH	<i>Minimedusa polyspora</i>	KC176336	98	100	B	Ag	Agarico	Cantharell	-	<i>Minimedusa</i>

H L	7	20	1.7	1.8	3.2	0.038	0.000	<b>0.038</b>	WRL	<i>Mycena leptocephala</i>	HQ60477 3	99	100	B	Ag	Agarico	Agaric	Mycen	<i>Mycena</i>
H L	7	30	1.5	0.7	2.9	0.000	0.052	0.052	BR <sup>3</sup>	<i>Ceriporia reticulata</i> <sup>3</sup>	KP13520 4	100	97	B	Ag	Agarico	Polypor	Phanerocha et	<i>Ceriporia</i>
H L	7	15	1.5	0.9	2.8	0.014	0.038	0.024	WRL	<i>Mycena plumbea</i>	DQ47081 3	99	100	B	Ag	Agarico	Agaric	Mycen	<i>Mycena</i>
H L	7	17	1.5	1.4	2.7	0.020	0.049	0.029	BR	<i>Antrodia infirma</i>	KC59589 5	91	100	B	Ag	Agarico	Polypor	Fomitopsid	<i>Antrodia</i>
H L	7	3	1.4	1.7	2.5	0.175	0.078	<b>0.097</b>	SRCH	<i>Hyaloscypha albohyalina</i> var. spiralis	AB54694 0	99	99	A	Ag	Leotio	Heloti	Hyaloscyph	<i>Hyaloscypha</i>
H L	7	8	1.3	1.6	2.4	0.025	0.022	<b>0.003</b>	MB	<i>Sebacina vermifera</i>	DQ98381 5	97	100	B	Ag	Agarico	Sebacin	Sebacin	<i>Sebacina</i>
H L	7	54	1.2	0.7	2.3	0.037	0.000	<b>0.037</b>	WRL	<i>Hyphoderma praetermissu m</i>	DQ87359 7	99	100	B	Ag	Agarico	Polypor	Meruli	<i>Hyphoderma</i>
H L	7	18	1.1	3.3	2.0	0.024	0.022	<b>0.001</b>	SRCH	<i>Phaeohelotiu m epiphyllum</i>	KT87697 6	100	100	A	Pez	Leotio	Heloti	Heloti	<i>Phaeohelotiu m</i>

H L	18	10	3.1	1.1	5.0	0.115	0.120	0.004	WRL	<i>Fibrodontia brevidens</i>	KC92827 7	94	100	B	Ag	Agarico	Trechispor	Hydnodont	<i>Fibrodontia</i>
H L	18	56	2.3	1.7	3.7	0.043	0.000	<b>0.043</b>	WRL	<i>Trechispora alnicola</i>	AY63576 8	99	100	B	Ag	Agarico	Trechispor	Hydnodont	<i>Trechispora</i>
H L	18	4	2.3	1.5	3.7	0.044	0.045	0.001	WRL	<i>Mycena sanguinolent a</i>	AY20725 7	99	100	B	Ag	Agarico	Agaric	Mycen	<i>Mycena</i>
H L	18	11	2.2	1.8	3.4	0.137	0.123	<b>0.013</b>	SRCH	<i>Lachnellula willkommii</i>	KC49298 2	96	100	A	Pez	Leotio	Heloti	Hyaloscyph	<i>Lachnellula</i>
H L	18	55	2.2	1.6	3.4	0.038	0.000	<b>0.038</b>	WRL	<i>Trechispora alnicola</i>	AY63576 8	98	100	B	Ag	Agarico	Trechispor	Hydnodont	<i>Trechispora</i>
H L	18	72	1.8	1.3	2.9	0.031	0.000	<b>0.031</b>	WRL	<i>Trechispora confinis</i>	AY58671 9	97	100	B	Ag	Agarico	Trechispor	Hydnodont	<i>Trechispora</i>
H L	18	35	1.8	0.7	2.8	0.059	0.000	<b>0.059</b>	BR (?) <sup>4</sup>	<i>Ceraceomyce s tessulatus</i> <sup>4</sup>	AY58664 2	99	100	B	Ag	Agarico	Amylocort ici	Amylocorit ici	<i>Ceraceomyce s</i>
H L	18	64	1.8	0.7	2.8	0.052	0.000	<b>0.052</b>	WRL	<i>Sphaerobolus stellatus</i>	HQ60479 5	97	100	B	Ag	Agarico	Geastr	Geastr	<i>Sphaerobolus</i>

H L	18	12	1.7	0.7	2.8	0.000	0.048	0.048	WRL (?) <sup>1</sup>	<i>Kavinia himantia</i> <sup>1</sup>	AY58668 2	99	100	B	Ag	Agarico	Gomph	Lentari	<i>Kavinia</i>
H L	18	14	1.6	0.8	2.6	0.043	0.000	<b>0.043</b>	WL	<i>Anthostomella leucospermi</i>	EU55210 0	99	100	A	Pez	Sordario	Xylari	Xylari	<i>Anthostomella</i>
S	-	43	1.9	1.3	3.4	0.078	0.000	<b>0.078</b>	MB	<i>Hygrocybe parvula</i>	KF29118 9	98	100	B	Ag	Agarico	Agaric	Hygrophor	<i>Hygrocybe</i>
S	-	11 5	1.2	1.4	2.2	0.039	0.001	<b>0.038</b>	WL	<i>Entoloma (Inocephalus) murrayi</i>	GU38462 0	99	99	B	Ag	Agarico	Agaric	Entolomat	<i>Entoloma</i>
S	-	81	1.1	1.5	2.0	0.033	0.015	<b>0.018</b>	SRCH	<i>Geoglossum difforme</i>	KC22213 7	100	100	A	Pez	Geogloss so	Geogloss	Geogloss	<i>Geoglossum</i>
S	-	10 1	1.1	0.7	1.9	0.000	0.052	0.052	MB	<i>Russula aeruginea</i>	HQ60483 7	98	100	B	Ag	Agarico	Russul	Russul	<i>Russula</i>
S	-	15 6	0.9	1.2	1.7	0.021	0.000	<b>0.021</b>	MB	<i>Russula atropurpurea</i>	AF32529 6	99	100	B	Ag	Agarico	Russul	Russul	<i>Russula</i>
S	-	17 1	0.9	1	1.6	0.001	0.027	0.027	WL	<i>Entoloma sinuatum</i>	EU52277 1	100	100	B	Ag	Agarico	Agaric	Entolomat	<i>Entoloma</i>

S	-	15 7	0.9	1.4	1.6	0.000	0.018	0.018	MB	<i>Tomentella botryoides</i>	AY58671 7	97	100	B	Ag	Agarico	Thelephor	Thelephor	<i>Tomentella</i>
S	-	14 1	0.9	1.2	1.5	0.002	0.023	0.021	WL	<i>Entoloma sericellum</i>	GQ28919 0	97	100	B	Ag	Agarico	Agaric	Entolomat	<i>Entoloma</i>
S	-	10	0.8	2.2	1.5	0.012	0.041	0.030	WRL	<i>Fibrodontia brevidens</i>	KC92827 7	94	100	B	Ag	Agarico	Trechispor	Hydnodont	<i>Fibrodontia</i>
S	-	97	0.8	0.7	1.5	0.030	0.000	<b>0.030</b>	MB	<i>Russula vinacea</i>	KT93382 4	100	100	B	Ag	Agarico	Russul	Russul	<i>Russula</i>
W	7	5	5.3	1.2	9.7	0.232	0.000	<b>0.232</b>	WRL	<i>Crepidotus versutus</i>	AF20568 3	100	100	B	Ag	Agarico	Agaric	Crepidot	<i>Crepidotus</i>
W	7	1	3	1.4	5.5	0.118	0.138	0.020	WL	<i>Rosellinia abscondita</i>	KF71920 8	99	97	A	Pez	Sordario	Xylari	Xylari	<i>Rosellinia</i>
W	7	2	2.6	1.8	4.8	0.036	0.140	0.104	SRCH	<i>Herpotrichia vaginatispora</i>	KT93425 2	99	98	A	Pez	Dothide o	Pleospor	Melanomm at	<i>Herpotrichia</i>
W	7	7	2.1	1.2	3.9	0.026	0.053	0.027	WRL	<i>Crepidotus fragilis</i>	AF36793 1	99	100	B	Ag	Agarico	Agaric	Crepidot	<i>Crepidotus</i>



W	7	9	2.1	1.4	3.8	0.005	0.052	0.048	SRCH	<i>Herpotrichia vaginatispora</i>	KT93425 2	96	98	A	Pez	Dothideo	Pleospor	Melanommat	<i>Herpotrichia</i>
W	7	4	2	1.5	3.6	0.042	0.042	0.000	WRL	<i>Mycena sanguinolenta</i>	AY20725 7	99	100	B	Ag	Agarico	Agaric	Mycen	<i>Mycena</i>
W	7	22	1.9	0.7	3.5	0.061	0.000	<b>0.061</b>	WRL	<i>Gymnopus dryophilus</i>	NG_0276 32	100	96	B	Ag	Agarico	Agaric	Marasmi	<i>Gymnopus</i>
W	7	8	1.9	1.2	3.4	0.079	0.054	<b>0.025</b>	MB	<i>Sebacina vermifera</i>	DQ98381 5	97	100	B	Ag	Agarico	Sebacin	Sebacin	<i>Sebacina</i>
W	7	15	1.9	1.1	3.4	0.039	0.000	<b>0.039</b>	WRL	<i>Mycena plumbea</i>	DQ47081 3	99	100	B	Ag	Agarico	Agaric	Mycen	<i>Mycena</i>
W	7	25	1.8	0.7	3.3	0.000	0.058	0.058	WL	<i>Coprinellus radians</i>	KM24602 7	99	100	B	Ag	Agarico	Agaric	Psathyrell	<i>Coprinellus</i>
W	18	1	3.6	1.3	6.5	0.070	0.145	0.075	WL	<i>Rosellinia abscondita</i>	KF71920 8	99	97	A	Pez	Sordario	Xylari	Xylari	<i>Rosellinia</i>
W	18	2	3.4	1.5	6.2	0.092	0.189	0.096	SRCH	<i>Herpotrichia vaginatispora</i>	KT93425 2	99	98	A	Pez	Dothideo	Pleospor	Melanommat	<i>Herpotrichia</i>

W	18	7	3.1	1.5	5.6	0.107	0.025	<b>0.082</b>	WRL	<i>Crepidotus fragilis</i>	AF367931	99	100	B	Ag	Agarico	Agaric	Crepidot	<i>Crepidotus</i>
W	18	4	3.1	1.3	5.6	0.077	0.000	<b>0.077</b>	WRL	<i>Mycena sanguinolenta</i>	AY207257	99	100	B	Ag	Agarico	Agaric	Mycen	<i>Mycena</i>
W	18	12	2.8	0.9	5	0.055	0.077	0.022	WRL (?) <sup>1</sup>	<i>Kavinia himantia</i> <sup>1</sup>	AY586682	99	100	B	Ag	Agarico	Gomph	Lentari	<i>Kavinia</i>
W	18	14	2.4	0.9	4.3	0.064	0.000	<b>0.064</b>	WL	<i>Anthostomella leucospermi</i>	EU552100	99	100	A	Pez	Sordario	Xylari	Xylari	<i>Anthostomella</i>
W	18	9	2.2	1.4	4.0	0.028	0.109	0.081	SRCH	<i>Herpotrichia vaginatispora</i>	KT934252	96	98	A	Pez	Dothideo	Pleospor	Melanommat	<i>Herpotrichia</i>
W	18	33	2	1	3.5	0.002	0.045	0.043	WL	<i>Psathyrella candolleana</i>	KM030175	99	100	B	Ag	Agarico	Agaric	Psathyrell	<i>Psathyrella</i>
W	18	6	1.9	1.6	3.4	0.095	0.039	<b>0.055</b>	SRCH	<i>Herpotrichia macrotricha</i>	GU385179	98	98	A	Pez	Dothideo	Pleospor	Melanommat	<i>Herpotrichia</i>
W	18	28	1.8	0.7	3.2	0.000	0.045	0.045	WL	<i>Tubaria albostipitata</i>	EF051051	99	94	B	Ag	Agarico	Agaric	Tubari	<i>Tubaria</i>

<p><sup>1</sup> Isotopic analysis of <i>Phaeoclavulina (Ramaria) abietina</i> suggests it is a saprotroph (Agerer et al., 2012) and genomic analyses reveal it has dye-decolorizing peroxidases (Fernandez-Fueyo et al. 2015), which may be involved in lignin-decay (Liers et al. 2010). <i>Ramaria stricta</i>, a <i>Ramaria</i> species which grows on wood, has been observed to have high laccase and manganese-peroxidase activity (Erden et al. 2009). Gomphales species in the putatively saprotrophic genus <i>Kavinia</i> (Hosaka et al., 2006) are often found on wood (Kout &amp; Hajšmanová, 2015; Nordén &amp; Paltto, 2001), possess strong laccase activity (Harkin et al. 1974), and have been described as white-rot (Ginns &amp; Lefebvre, 1993). Furthermore, the genus <i>Lentaria</i> has been described as white-rot (Hibbett et al. 2014). Therefore, we have tentatively considered all putatively saprotrophic Gomphales observed here to be white-rot.</p>
<p><sup>2</sup> We have tentatively placed an OTU associated with <i>Ceratosebacina calospora</i> as SRCH. <i>C. calospora</i> could not be placed in any clade with confidence by Binder et al. 2005. <i>C. calospora</i> and two other species were placed in its own clade by Weiß &amp; Oberwinkler (2001). Thus, <i>C. calospora</i> has not been definitively placed within any group subsequently determined to be white rot or soft-rot (Nagy et al., 2015). However, we could find no descriptions of it or its sister taxa (Weiß &amp; Oberwinkler 2001) as white-rot. Because of this, we have tentatively described it as SRCH for the purposes of our study.</p>
<p><sup>3</sup> Species in the genus <i>Ceriporia</i> are largely white-rot. However, brown-rot has been reported for the species <i>Ceriporia reticulata</i> (Niemelä, 1985). Additionally, <i>C. reticulata</i> was found to be closely related to another brown-rot species (<i>Leptoporus mollis</i>) in a recent phylogenetic analysis (Figure S5 in Floudas et al. 2015).</p>
<p><sup>4</sup> <i>Ceraceomyces tessulatus</i> was phylogenetically placed in a clade with brown-rot species <i>Anomoporia bombycina</i>, <i>A. vesiculosa</i>, and <i>A. kamtschatica</i> (Niemelä et al., 2007). Additionally, this OTU had a high (94% sequenced identity) BLAST match for brown-rot species <i>Anomoporia kamtschatica</i> (GenBank AY586630).</p>
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