

Supplemental material

The composition of airborne and grain-dust fungal communities is shaped at regional scale by plant genotypes and farming practices

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The following Supporting Information is available for this article:

Fig. S1. Number of freezing days (**A.**) and elevation (**B.**) in the study area.

Fig. S2. Climatic information. **A.** Location of the weather stations. **B., D., F.** Mean precipitation levels during June, July and August 2010, respectively. **C., E., G.** Mean temperatures during June, July and August 2010, respectively.

Table S1. Fungicide treatments of the fields

Table S2. Weather indicators during aerosol sampling and duration of sampling

Table S3. Variables considered in the analysis of fungal alpha and beta diversity

Table S4. Good's coverage values and sequence data characteristics of samples

Table S5. Taxonomic assignment of the OTUs. The species known to be involved in wheat diseases or to produce secondary metabolites that are toxic for humans (mycotoxins) are mentioned when the OTUs present a sequence identity >96%.

Table S6. Frequency of the OTUs with at least two reads in aerosol and grain dust samples depending on the farming system

FIG S1.

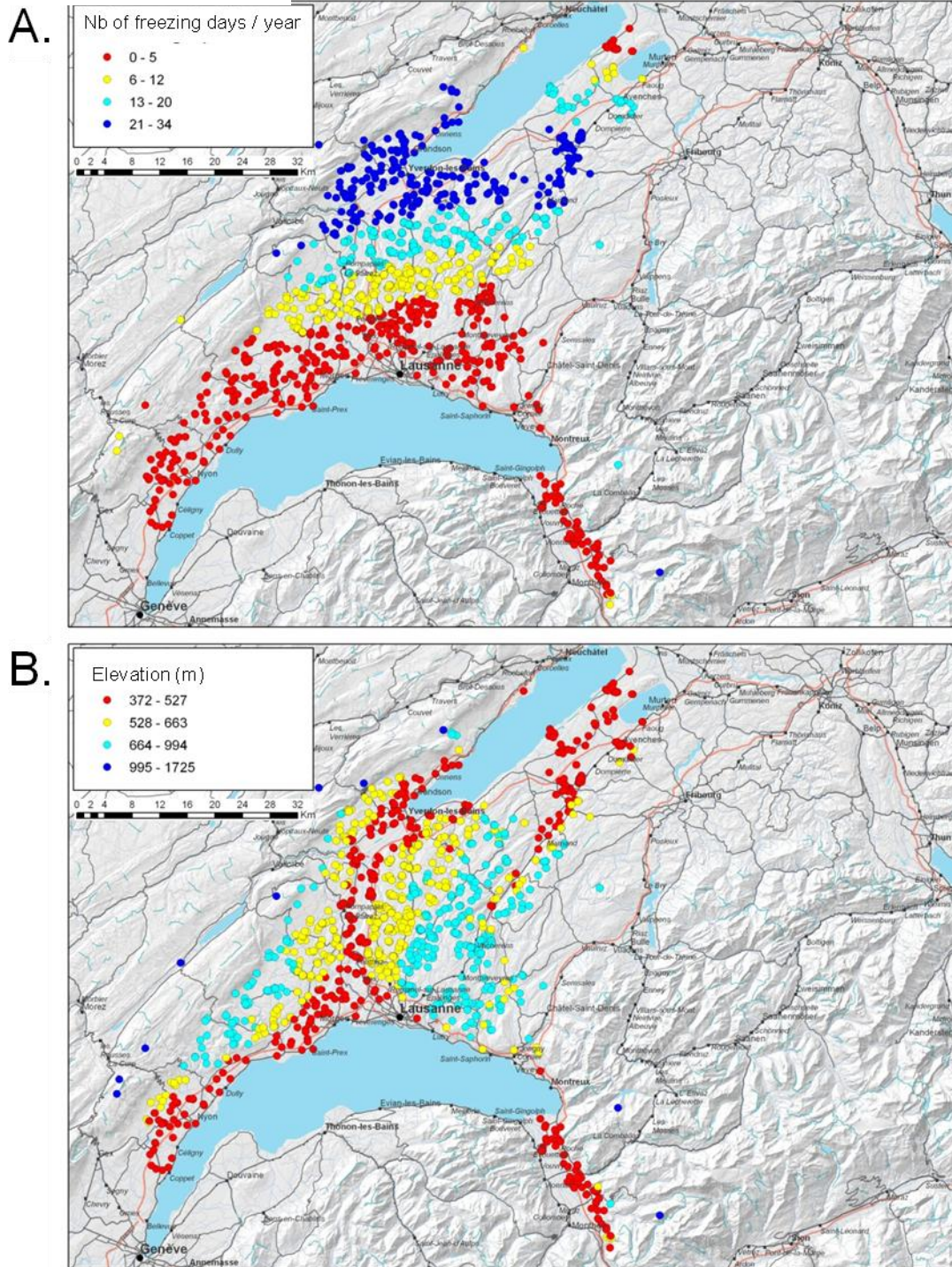


FIG S2.

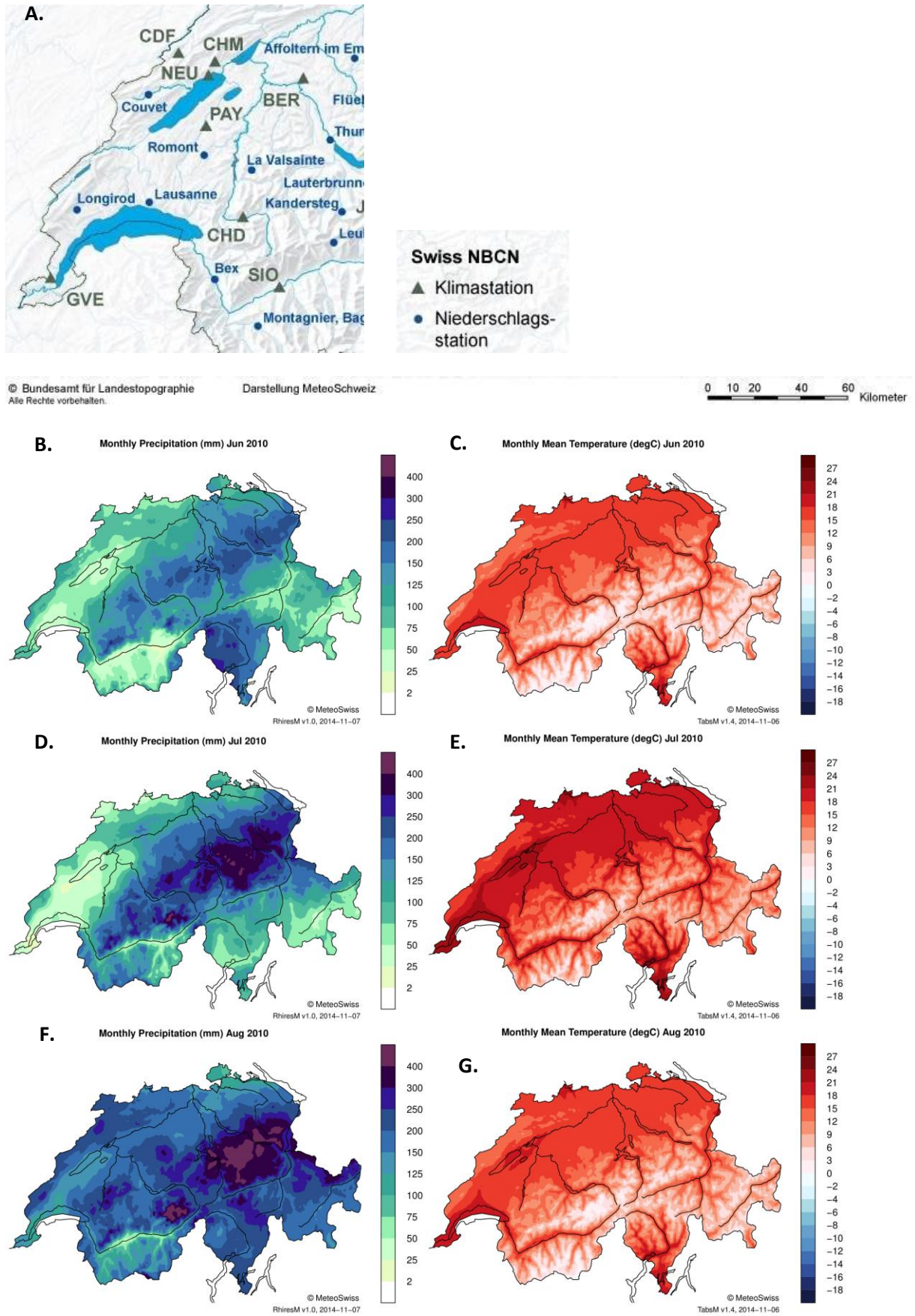


Table S1. Fields characteristics and fungicide treatments

Field ID	Farming system	Cultivar	Precedent crop culture	Elevation (m)	Surface (ha)
84	conventional	Arina	peas	458	1.96
144	conventional	Zinal	sugar beet	412	3.25
245	conventional	Zinal	sunflower	620	1.35
192	conventional	Ludwig	rapeseed	601	0.72
12	conventional	Mulan	corn	386	1.90
11	conventional	Mulan	sunflower	445	1.17
78	conventional	Tommy	rapeseed	525	7.50
14	conventional	Claro	corn	478	4.40
274	conventional	Claro	rapeseed	663	1.30
22	conventional	Runal	potatoes	422	5.30
272	conventional	Impression	sugar beet + corn	782	2.48
74	conventional	Ludwig	rapeseed	566	2.80
250	conventional	Sciala	meadow	751	2.40
258	conventional	Impression	flax	705	0.80
247	conventional	Zinal	corn	591	6.00
204	conventional	Impression	sugar beet	522	3.75
203	conventional	Ludwig	corn	463	1.50
67	conventional	Combin	rapeseed	436	4.17
33	conventional	Runal	peas	615	1.50
273	conventional	Manhattan	sugar beet	673	1.55
66	conventional	Forel	sugar beet	467	2.40
66	conventional	Forel	corn	467	5.00
182	conventional	Sciala	sugar beet	699	1.50
248	conventional	Tapidor	sugar beet	815	
196	conventional	Sciala	corn	681	3.20
231	conventional	Arina	potatoes	826	
183	conventional	Sciala	potatoes	690	2.00
211	conventional	Zinal	meadow	790	
148	conventional	Titlis	sugar beet	599	3.60
127	conventional	Zinal	rapeseed	680	1.60
226	conventional	Zinal	rapeseed	686	1.65
69	conventional	Titlis	rapeseed + sunflower	597	5.90
161	conventional	Lewis	rapeseed	606	1.96
220	conventional	Soisson	celery	395	8.34
167	conventional	Ludwig	rapeseed	652	1.55
215	conventional	Lewis	sugar beet + rapeseed	590	4.20
228	conventional	Sciala	rapeseed	600	4.22
169	conventional	Manhattan	sugar beet	493	3.00
7	conventional	Arina	potatoes	836	2.85
75	conventional	Apache			

Field ID	Farming system	Cultivar	Precedent crop culture	Elevation (m)	Surface (ha)
229	conventional	Lewis		602	
271	conventional	Runal	sugar beet	661	
26	conventional	Zinal	sugar beet	467	
260	conventional	Zinal	sugar beet	668	
13	conventional	Zinal	sugar beet	456	
249	conventional	Arina	rapeseed	822	
275	conventional	Sciala	rapeseed	771	
29	conventional	Zinal	rapeseed	511	
27	conventional	Claro	corn	497	
28	conventional	Claro	corn		
195	conventional	Claro	corn	830	
62	conventional	Lewis	corn	608	
209	conventional	Arina	potatoes	836	
79	conventional	Manhattan	potatoes	569	
24	conventional	Ludwig	peas	449	
24	conventional	Ludwig	peas	449	
190	conventional	mix	peas + sugar beet	632	
267	conventional	Claro	meadow + potatoes	781	
256	conventional	Arina	sunflower	651	
168	conventional	Sciala	sunflower	475	
261	conventional	Impression	sunflower + rapeseed	649	
233	conventional	Arina		787	
15	conventional	Claro		475	
216	conventional	Manhattan		542	
163	conventional	mix		433	
72	conventional	Triticale		572	
125	conventional	Triticale		432	
63	conventional	Zinal		501	
246	extensive	Forel	sugar beet	673	
225	extensive	Ludwig	wheat	514	0.90
140	extensive	Manhattan	rapeseed	437	
64	extensive	Manhattan	rapeseed	601	3.10
210	extensive	Runal	rapeseed	666	2.55
212	extensive	Runal	rapeseed	666	2.55
17	extensive	Sciala	rapeseed	547	
230	extensive	Galaxy	rapeseed	776	3.50
208	extensive	Titlis	rapeseed + peas	687	
128	extensive	Sciala	meadow	552	
153	extensive	Forel	corn	621	
34	extensive	Forel	corn	597	2.63
48	extensive	Ludwig	corn	603	
49	extensive	Ludwig	corn	603	

Field ID	Farming system	Cultivar	Precedent crop culture	Elevation (m)	Surface (ha)
236	extensive	Sciala	corn	798	1.90
237	extensive	Sciala	corn	650	2.25
18	extensive	Sciala	corn	415	
16	extensive	Sciala	potatoes	462	4.00
257	extensive	Lewis	peas + potatoes + oats	726	3.10
230	extensive	Galaxy	meadow	776	0.75
70	extensive	Runal	meadow	509	0.80
70	extensive	Runal	meadow	509	0.50
23	extensive	Forel		474	
213	extensive	Sciala		741	
162	organic	Wiva	rapeseed	619	2.90
71	organic	Scaro	rapeseed + sunflower + flax	472	
65	organic	Scaro	peas + sunflower	504	
19	organic	Pollux	meadow	415	0.90
154	organic	Wiva	meadow	416	
232	organic	Wiva	meadow	644	
193	organic	Scaro	salad + corn	437	
139	organic	Spelt wheat	soybeans	464	
214	organic	Triticale	Triticale	695	
234	organic	Spelt wheat		847	

First fungicide application					
Field ID	Fungicide name	Active ingredient	Date of application	BBCH growth stage	Quantity (L/ha)
84	Amistar	azoxystrobine	21.5.2010	55	1,00
144	Amistar	azoxystrobine	25.5.2010	51	1,00
245	Amistar	azoxystrobine	29.4.2010	32	1,00
192	Bravo 500	chlorothalonil	24.5.2010		1,50
12	Bravo 500	chlorothalonil	17.05.2010	37	1,5
11	Bravo 500	chlorothalonil	17.05.2010	37	1,5
78	Unix	cyprodinil	19.4.2010	30	0,8
14	Unix + Amistar Xtra	cyprodinil + azoxystrobine	10.5.2010	311	0.8g + 1,00
274	Stéreo Eco	cyprodinil, propiconazole	25.4.2010	31	2,50
22	Stéreo Eco	cyprodinil, propiconazole	23.4.2010	030	02,50
272	Stéreo Eco	cyprodinil, propiconazole	25.5.2010	31/32	2,50
74	Avenir Pro	difenoconazole, propiconazole	25.5.2010	51	0,50
250	Bell	epoxiconazole,boscalid	10.5.2010	32	1,00
258	Bell	epoxiconazole,boscalid	18.5.2010	32	1,50
247	Bell	epoxiconazole,boscalid	22.4.2010	35	1,50
204	Bell	epoxiconazole,boscalid	28.4.2010		1,50
203	Bell	epoxiconazole,boscalid	26.5.2010	33	1,30
67	Gladio	fenpropidine, propiconazole	25.5.2010	48	1000 g
33	Flamenco Plus	fluquinconazole, prochloraz	7.4.2010	30	2,30
273	Capitan S	flusilazole	18.5.2010		1,20
66	Sportak	prochloraz	22.4.2010	30	1,00
66	Sportak	prochloraz	22.4.2010	30	1,00
182	Sportak	prochloraz	28.4.2010	31	1,00
248	Sportak	prochloraz	25.5.2010	32	1,00
196	Sportak	prochloraz	28.4.2010	31	1,00
231	Sportak	prochloraz	10.5.2010	31	1,00
183	Sportak	prochloraz	28.4.2010	31	1,00
211	Sportak	prochloraz	25.5.2010	32	1,00
148	Fandango	prothioconazole, fluoxastrobine	20.4.2010	30	1,00
127	Fandango	prothioconazole, fluoxastrobine	24.6.2010	50	1,50
226	Fandango	prothioconazole, fluoxastrobine	24.6.2010	50	1,50
69	Fandango	prothioconazole, fluoxastrobine	20.4.2010	30	1,00
161	Input	prothioconazole, spiroxamine	8.5.2010	30	1,25
220	Input	prothioconazole, spiroxamine	23.4.2010		1,25
167	Input	prothioconazole, spiroxamine	17.5.2010	31,5	1,25
215	Input	prothioconazole, spiroxamine	22.4.2010	35	1,25
228	Input	prothioconazole, spiroxamine	22.4.2010	37	1,25
169	Input	prothioconazole, spiroxamine	31.5.2010	51	1,25
7	Métro		11.5.2010	31	0,50

Second fungicide application					
Field ID	Fungicide name	Active ingredient	Date of application	BBCH growth stage	Quantity (L/ha)
84	Bravo 500	chlorothalonil	21.05.2010	55	1,00
144					
245					
192	Gladio	fenpropidine, propiconazol, tebuconazol	24.05.2010		1,00
12					
11					
78	Amistar	azoxystrobine	19.04.2010	30	1,00
14	Gladio + Bravo 500	fenpropidine, propiconazol, tebuconazol + chlorothalonil	26.05.2010	391	1,00
274	Amistar Xtra	azoxystrobine	27.05.2010	51	1,00
22	Gladio	fenpropidine, propiconazol, tebuconazol	25.05.2010	037	1,00
272	Casac	tebuconazole, prothioconazole	9.06.2010	39	1,00
74					
250	Bravo 500	chlorothalonil	7.6.2010		2,50
258	Gladio	fenpropidine, propiconazol, tebuconazol	02.06.2010		1,00
247	Proline	prothioconazole	27.05.2010		0,80
204					
203					
67					
33	Casac	tebuconazole, prothioconazole	28.05.2010	51	1,00
273	Amistar Xtra	azoxystrobine	10.06.2010		1,00
66	Proline	prothioconazole	25.05.2010	50	0,80
66	Proline	prothioconazole	25.05.2010	50	0,80
182	Fandango	prothioconazole, fluoxastrobine	22.05.2010	50	1,50
248	Fandango	prothioconazole, fluoxastrobine	4.6.2010	45	1,50
196	Fandango	prothioconazole, fluoxastrobine	22.05.2010	50	1,50
231	Fandango	prothioconazole, fluoxastrobine	26.5.2010	45	1,50
183	Fandango	prothioconazole, fluoxastrobine	22.03.2010	50	1,50
211	Fandango	prothioconazole, fluoxastrobine	4.6.2010	45	1500 g/ha
148					
127					
226					
69					
161	Agora SC	cyproconazole, trifloxystrobine	29.05.2010	47-49	0,50
220	Allegro	epoxiconazole, kresoxim-methyl	24.05.2010		1,00
167	Allegro	epoxiconazole, kresoxim-methyl	04.06.2010	45	1,00
215	Proline	prothioconazole	31.05.2010		0,80
228	Proline	prothioconazole	26.05.2010		0,80
169					
7	Input	prothioconazole, spiroxamine	11.05.2010	31	1,25

Third fungicide application					
Field ID	Fungicide name	Active ingredient	Date of application	BBCH growth stage	Quantity (L/ha)
84					
144					
245					
192					
12					
11					
78	Gladio+Bravo 500	fenpropidine, propiconazol, tebuconazol + chlorothalonil	15.5.2010	51	1,00
14					
274					
22	Bravo 500	chlorothalonil	25.05.2010	037	1,00
272					
74					
250					
258					
247					
204					
203					
67					
33					
273					
66					
66					
182					
248					
196					
231					
183					
211					
148					
127					
226					
69					
161	Miros Fl		29.05.2010	47-49	0,07
220					
167					
215					
228					
169					
7	Agora	cyproconazole,trifloxystrobine	07.06.2010	47	0,50

Table S2. Weather indicators during aerosol sampling and duration of sampling in 2010

Field ID	Sampling hour	Sampling day	Harvester speed (ha/h)	Temperature at soil level (°C)	Relative Humidity (%)	Atmospheric pressure (Pa)	Wind	Weather	Air volume sampled (m3)	Considered in 454-data analyses	Farming system	Cultivar	Duration (min)
11	15:48	15-07-	1,5	44	22	967	low	sunny	0.126	Yes	conventional	ND	63
12	14:16	15-07-	1,5	44	16	973	low	sunny	0.152	Yes	conventional	ND	76
13	17:45	16-07-	1,0	36	29	966	NA	cloudy	0.080	Yes	conventional	Zinal	40
14	18:05	15-07	1,0	34	29	962	absent	sunny	0.212	Yes	conventional	Claro	106
15	21:00	15-07	1,0	26	46	967	absent	sunny	0.058	Yes	conventional	Claro	29
16	13:15	16-07	1,5	41	22	965	low	sunny	0.154	Yes	extensive	Siala	77
17	20:30	16-07	2,2	30	32	957	NA	NA	0.162	No	conventional	Siala	81
19	10:45	16-07	1,5	30	40	970	low	sunny	0.120	Yes	organic	Pollux	60
20	14:35	16-07	1,5	28	44	961	low	sunny	0.023	Yes	extensive	Claro	11
22	17:00	19-07	1,5	37	25	971	absent	sunny	0.314	Yes	conventional	Runal	157
23	19:15	17-07	1,5	20	49	973	NA	NA	0.250	Yes	extensive	Forel	125
24	01:30	18-07	1,0	17	55	976	absent	sunny	0.120	Yes	conventional	Ludwig	60
27	21:54	17-07	1,0	18	54	969	NA	NA	0.122	No	conventional	ND	61
27	21:54	17-07	1,0	18	54	969	NA	NA	0.230	Yes	conventional	ND	115
28	23:55	17-07	1,5	18	54	969	low	cloudy	0.100	Yes	conventional	Claro	50
29	14:40	18-07	2,0	35	21	965	strong	sunny	0.144	Yes	conventional	Zinal	72
34	22:30	16-07	2,2	25	37	952	absent	cloudy	0.204	Yes	extensive	Ludwig	102
62	22:00	21-07	2,0	25	50	948	absent	cloudy	0.120	Yes	conventional	Levis	60
63	75:00	19-07	0,7	37	22	965	low	sunny	0.160	Yes	conventional	Zinal	80
64	18:00	18-07	2,0	31	26	955	strong	sunny	0.100	Yes	extensive	Manhattan	50
65	13:50	19-07	0,5	35	25	965	low	sunny	0.502	Yes	organic	Scaro	251
67	14:25	21-07	1,5	39	20	962	middle intensity	sunny	0.136	Yes	conventional	Combin	68
69	17:15	26-07	1,5	26	37	951	absent	cloudy	0.296	Yes	conventional	Titlis	148
70	14:30	26-07	1,5	27	35	959	absent	cloudy	0.096	Yes	extensive	Runal	48
71	11:00	26-07	1,5	32	31	965	absent	sunny	0.310	Yes	organic	Scaro	155
72	13:30	21-07	2,0	37	32	949	NA	NA	0.046	Yes	conventional	Triticale	23

Field ID	Sampling hour	Sampling day	Harvester speed (ha/h)	Temperature at soil level (°C)	Relative Humidity (%)	Atmospheric pressure (Pa)	Wind	Weather	Air volume sampled (m3)	Considered in 454-data analyses	Farming system	Cultivar	Duration (min)
74	15:43	21-07	1,0	33	28	945	low	NA	0.132	Yes	conventional	Ludwig	66
75	18:10	20-07	2,0	38	17	962	low	sunny	0.800	Yes	conventional	Apache	400
78	21:00	19-07	1,0	16	62	962	low	sunny	0.362	No	conventional	Tommy	181
79	11:55	21-07	2,5	43	18	950	low	sunny	0.196	Yes	conventional	Manhattan	98
84	13:30	20-07	1,0	52	15	965	low	sunny	0.066	Yes	conventional	Arina	33
108	19:00	20-07	2,0	33	26	948	absent	sunny	0.030	Yes	conventional	Galaxy	15
122	19:30	10-08	1,5	21	64	926	absent	sunny	0.090	Yes	conventional	Arina	45
125	10:00	22-07	0,2	25	60	968	absent	cloudy	0.078	Yes	conventional	Triticale	39
125	10:00	22-07	0,2	25	60	968	absent	cloudy	0.074	Yes	conventional	Triticale	37
127	13:15	01-08	1,5	37	23	343	middle intensity	sunny	0.024	Yes	conventional	Zinal	12
128	17:25	21-07	2,5	37	23	944	middle intensity	sunny	0.046	Yes	extensive	Siala	23
139	20:00	20-07	1,5	25	48	960	absent	sunny	0.258	Yes	organic	Spelt wheat	129
140	19:00	20-07	1,5	56	13	965	low	sunny	0.136	Yes	extensive	Manhattan	68
144	13:20	20-07	2,0	57	12	965	absent	sunny	0.096	Yes	conventional	Zinal	48
148	16:00	28-07	1,5	23	60	953	absent	cloudy	0.108	Yes	conventional	Titlis	54
153	18:25	21-07	2,5	34	27	943	middle intensity	sunny	0.152	Yes	extensive	Forel	76
154	11:00	21-07	1,5	42	17	961	NA	sunny	0.272	Yes	organic	Wiva	136
161	16:30	01-08	1,1	36	33	948	middle intensity	sunny	0.180	Yes	conventional	Levis	90
162	14:30	28-07	1,5	26	44	951	low	cloudy	0.104	Yes	organic	Wiva	52
163	10:00	22-07	0,2	25	56	968	absent	cloudy	0.190	Yes	conventional	Mixed	95
163	10:00	22-07	0,2	25	56	968	absent	cloudy	0.190	Yes	conventional	Mixed	95
167	16:59	01-08	1,5	28	36	932	middle intensity	cloudy	0.100	Yes	conventional	Ludwig	50
168	13:45	01-08	1,5	23	44	937	low	sunny	0.110	Yes	conventional	Siala	55
169	11:65	01-08	1,5	23	68	960	absent	sunny	0.160	Yes	conventional	Manhattan	80
182	16:15	01-08	1,5	32	30	939	middle intensity	cloudy	0.098	Yes	conventional	Siala	49
183	15:00	01-08	1,5	37	27	941	middle intensity	sunny	0.090	Yes	conventional	Siala	45
186	15:00	26-07	1,5	28	38	966	low	cloudy	0.024	Yes	conventional	Combin	12
187	15:15	26-07	1,5	28	38	966	low	cloudy	0.024	Yes	extensive	Zinal	12

Field ID	Sampling hour	Sampling day	Harvester speed (ha/h)	Temperature at soil level (°C)	Relative Humidity (%)	Atmospheric pressure (Pa)	Wind	Weather	Air volume sampled (m3)	Considered in 454-data analyses	Farming system	Cultivar	Duration (min)
189	15:35	26-07	1,5	28	38	966	low	cloudy	0.022	Yes	extensive	Siala	11
190	15:45	26-07	1,5	28	38	966	low	cloudy	0.080	Yes	conventional	Mixed	40
192	11:15	28-07	1,5	40	33	952	low	cloudy	0.060	Yes	conventional	Zinal	30
193	11:00	01-08	1,5	35	48	971	low	cloudy	0.116	Yes	organic	Scaro	58
194	14:00	26-07	1,5	28	38	966	low	cloudy	0.036	No	extensive	Levis,Combin	18
195	19:40	09-08	1,5	24	49	925	low	sunny	0.072	No	conventional	Claro	36
196	17:45	01-08	1,5	30	36	943	low	cloudy	0.084	Yes	conventional	Siala	42
203	18:30	31-07	1,5	26	48	967	absent	sunny	0.090	Yes	conventional	Ludwig	45
204	20:00	31-07	1,5	27	49	959	absent	sunny	0.074	Yes	conventional	Impression	37
208	22:30	09-08	1,5	17	66	942	low	sunny	0.134	No	extensive	Titlis	67
209	22:00	10-08	2,5	21	58	928	absent	sunny	0.090	Yes	conventional	Arina	45
210	22:00	09-08	1,5	19	62	943	absent	sunny	0.070	No	extensive	Runal	35
211	17:10	10-08	1,0	30	51	927	absent	sunny	0.134	Yes	conventional	Zinal	67
212	17:50	01-08	1,5	28	47	942	low	cloudy	0.044	Yes	extensive	Runal	22
213	19:30	01-08	1,5	18	96	937	low	cloudy	0.100	Yes	extensive	Siala	50
214	12:35	10-08	1,5	38	39	947	low	sunny	0.050	No	organic	Triticale	25
215	14:75	10-08	1,5	43	25	952	low	sunny	0.134	No	conventional	Levis	67
220	11:30	26-07	1,5	30	35	967	absent	cloudy	0.122	Yes	conventional	Soisson	61
226	14:15	01-08	1,5	37	27	941	middle intensity	sunny	0.136	Yes	conventional	Zinal	68
227	20:00	01-08	1,5	19	96	937	absent	cloudy	0.024	Yes	conventional	ND	12
228	02:30	01-08	1,5	12	83	952	absent	sunny	0.200	Yes	conventional	Siala	100
229	21:00	31-07	1,5	17	68	952	absent	sunny	0.058	Yes	conventional	Levis	29
230	23:30	31-07	1,8	18	58	933	low	sunny	0.194	Yes	extensive	Galaxy	97
231	18:10	10-08	1,0	24	55	926	absent	sunny	0.080	Yes	conventional	Arina	40
232	23:00	10-08	2,5	19	72	947	absent	sunny	0.090	No	organic	Wiva	45
233	19:15	10-08	1,5	21	64	926	absent	sunny	0.258	Yes	conventional	Arina	129
234	14:20	10-08	1,0	21	65	923	absent	sunny	0.144	Yes	organic	Spelt wheat	72
236	14:50	10-08	3,0	26	56	928	absent	sunny	0.144	Yes	extensive	Siala	72

Field ID	Sampling hour	Sampling day	Harvester speed (ha/h)	Temperature at soil level (°C)	Relative Humidity (%)	Atmospheric pressure (Pa)	Wind	Weather	Air volume sampled (m3)	Considered in 454-data analyses	Farming system	Cultivar	Duration (min)
246	15:30	01-08	1,5	35	27	941	middle intensity	sunny	0.226	Yes	extensive	Forel	113
247	16:30	10-08	1,5	32	41	951	absent	sunny	0.172	No	conventional	Zinal	86
248	19:00	10-08	1,5	24	55	926	absent	sunny	0.090	Yes	conventional	Tapidor	45

Table S3. Variables considered in the analysis of fungal alpha and beta diversity

	Alpha diversity	Beta diversity
Elevation (m)	x	x
Climatic variables		
Temperature (°C)	x	x
Summer rainfall (mm)	x	x
Annual rainfall (mm)	x	x
Number of freezing days/year	x	x
Soil variables		
pH	x	x
N _{tot} (mg kg ⁻¹)	x	x
P _{tot} (mg kg ⁻¹)	x	x
P _a (mg kg ⁻¹)	x	x
C _{tot} (mg kg ⁻¹)	x	x
C _{org} (%)	x	x
CaCO ₃ (mg kg ⁻¹)	x	x
Mg (mg kg ⁻¹)	x	x
K (mg kg ⁻¹)	x	x
Human intervention		
Farming system	x	x
Wheat cultivar		x
Cropping history		x

Table S4. Good's coverage values and sequence data characteristics of samples

Field ID	Farming system	Wheat variety	Prelevement Type	Nb of reads	Nb of OTUs	Good's coverage
11	conventional	ND	Aerosols	975	43	95.59
12	conventional	ND	Aerosols	310	17	94.52
12	conventional	ND	Grain	696	30	95.69
13	conventional	Zinal	Aerosols	296	15	94.93
13	conventional	Zinal	Grain	1222	38	96.89
14	conventional	Claro	Aerosols	440	24	94.55
14	conventional	Claro	Grain	702	26	96.30
15	conventional	Claro	Aerosols	618	14	97.73
15	conventional	Claro	Grain	1185	43	96.37
16	extensive	Siala	Aerosols	571	21	96.32
16	extensive	Siala	Grain	1277	44	96.55
17	extensive	Siala	Grain	1076	41	96.19
19	organic	Pollux	Aerosols	501	16	96.81
19	organic	Pollux	Grain	2012	65	96.77
20	extensive	Claro	Aerosols	1045	53	94.93
20	extensive	Claro	Grain	392	25	93.62
22	conventional	Runal	Aerosols	880	22	97.50
22	conventional	Runal	Grain	355	23	93.52
23	extensive	Forel	Aerosols	430	21	95.12
24	conventional	Ludwig	Aerosols	323	14	95.67
24	conventional	Ludwig	Grain	544	34	93.75
27	conventional	ND	Aerosols	586	18	96.93
28	conventional	Claro	Aerosols	373	16	95.71
29	conventional	Zinal	Aerosols	521	20	96.16
29	conventional	Zinal	Grain	584	36	93.84
34	extensive	Ludwig	Aerosols	505	19	96.24
34	extensive	Impression	Grain	1057	44	95.84
34	extensive	Ludwig	Grain	553	28	94.94
48	extensive	Ludwig	Grain	956	32	96.65
62	conventional	Levis	Aerosols	396	21	94.70
62	conventional	Levis	Grain	771	27	96.50
63	conventional	Zinal	Aerosols	622	23	96.30
63	conventional	Zinal	Grain	691	27	96.09
64	extensive	Manhattan	Aerosols	323	18	94.43
64	extensive	Manhattan	Grain	851	29	96.59
65	organic	Scaro	Aerosols	306	15	95.10
65	organic	Scaro	Grain	778	33	95.76
67	conventional	Combin	Aerosols	1239	33	97.34
67	conventional	Combin	Grain	671	23	96.57
69	conventional	Titlis	Aerosols	829	29	96.50
69	conventional	Titlis	Grain	997	42	95.79
70	extensive	Runal	Aerosols	876	28	96.80
70	extensive	Runal	Grain	952	34	96.43
71	organic	Scaro	Aerosols	880	31	96.48
71	organic	Scaro	Grain	738	35	95.26
72	conventional	Triticale	Aerosols	225	27	88.00

Field ID	Farming system	Wheat variety	Prelevement Type	Nb of reads	Nb of OTUs	Good's coverage
72	conventional	Triticale	Grain	724	27	96.27
74	conventional	Ludwig	Aerosols	245	19	92.24
74	conventional	Ludwig	Grain	598	26	95.65
75	conventional	Apache	Aerosols	296	19	93.58
75	conventional	Apache	Grain	882	27	96.94
78	conventional	Tommy	Grain	1099	28	97.45
79	conventional	Manhattan	Aerosols	498	18	96.39
79	conventional	Manhattan	Grain	882	29	96.71
84	conventional	Arina	Aerosols	390	18	95.38
84	conventional	Arina	Grain	775	32	95.87
108	conventional	Galaxy	Aerosols	186	22	88.17
108	conventional	Galaxy	Grain	832	32	96.15
122	conventional	Arina	Aerosols	562	27	95.20
125	conventional	Triticale	Aerosols	579	29	94.99
127	conventional	Zinal	Grain	698	35	94.99
128	extensive	Siala	Aerosols	468	29	93.80
128	extensive	Siala	Grain	250	23	90.80
139	organic	Spelt wheat	Aerosols	427	19	95.55
139	organic	Spelt wheat	Grain	736	34	95.38
140	extensive	Manhattan	Aerosols	1146	36	96.86
140	extensive	Manhattan	Grain	733	30	95.91
144	conventional	Zinal	Aerosols	796	26	96.73
144	conventional	Zinal	Grain	775	32	95.87
148	conventional	Titlis	Aerosols	501	10	98.00
148	conventional	Titlis	Grain	987	39	96.05
153	extensive	Forel	Aerosols	267	17	93.63
153	extensive	Forel	Grain	1523	45	97.05
154	organic	Wiva	Aerosols	614	32	94.79
154	organic	Wiva	Grain	544	26	95.22
161	conventional	Levis	Aerosols	592	27	95.44
161	conventional	Levis	Grain	531	22	95.86
162	organic	Wiva	Aerosols	389	20	94.86
162	organic	Wiva	Grain	462	27	94.16
163	conventional	Mixed varities	Aerosols	925	33	96.43
163	conventional	Mixed varities	Grain	1685	36	97.86
167	conventional	Ludwig	Aerosols	352	19	94.60
167	conventional	Ludwig	Grain	398	20	94.97
168	conventional	Siala	Aerosols	305	9	97.05
168	conventional	Siala	Grain	528	27	94.89
169	conventional	Manhattan	Aerosols	713	25	96.49
169	conventional	Manhattan	Grain	1017	31	96.95
182	conventional	Siala	Aerosols	456	14	96.93
182	conventional	Siala	Grain	1082	38	96.49
183	conventional	Siala	Aerosols	319	10	96.87
183	conventional	Siala	Grain	473	31	93.45
186	conventional	Combin	Aerosols	480	22	95.42
186	conventional	Combin, Zinal	Grain	777	38	95.11
187	extensive	Zinal	Aerosols	395	22	94.43
187	extensive	Forel, Zinal	Grain	787	40	94.92

Field ID	Farming system	Wheat variety	Prelevement Type	Nb of reads	Nb of OTUs	Good's coverage
188	conventional	Forel	Aerosols	624	32	94.87
188	conventional	Forel & Siala	Grain	787	28	96.44
189	extensive	Siala	Aerosols	630	31	95.08
189	extensive	Siala, Camedo	Grain	823	32	96.11
190	conventional	Mixed varities	Aerosols	457	20	95.62
190	conventional	Mixed varities	Grain	646	32	95.05
192	conventional	Zinal	Aerosols	431	20	95.36
192	conventional	Zinal	Grain	501	27	94.61
193	organic	Scaro	Aerosols	613	28	95.43
193	organic	Scaro	Grain	620	30	95.16
194	conventional	Levis, Combin	Grain	973	40	95.89
195	conventional	Claro	Grain	762	29	96.19
196	conventional	Siala	Aerosols	664	21	96.84
196	conventional	Siala	Grain	506	30	94.07
203	conventional	Ludwig	Aerosols	733	37	94.95
203	conventional	Ludwig	Grain	623	31	95.02
204	conventional	Impression	Aerosols	690	26	96.23
204	conventional	Impression	Grain	607	26	95.72
208	extensive	Titlis	Grain	512	24	95.31
209	conventional	Arina	Aerosols	98	4	95.92
209	conventional	Arina	Grain	601	17	97.17
210	extensive	Runal	Grain	510	19	96.27
211	conventional	Zinal	Aerosols	654	18	97.25
211	conventional	Zinal	Grain	1248	40	96.79
212	extensive	Runal	Aerosols	1041	41	96.06
213	extensive	Siala	Aerosols	408	18	95.59
213	extensive	Siala	Grain	767	36	95.31
214	organic	Triticale	Grain	735	37	94.97
215	conventional	Levis	Grain	881	33	96.25
220	conventional	Soisson	Aerosols	582	21	96.39
226	conventional	Zinal	Aerosols	616	24	96.10
226	conventional	Zinal	Grain	704	31	95.60
227	conventional	ND	Aerosols	869	20	97.70
228	conventional	Siala	Aerosols	1238	33	97.33
229	conventional	Levis	Aerosols	751	34	95.47
230	extensive	Galaxy	Aerosols	886	39	95.60
230	extensive	Galaxy	Grain	968	41	95.76
231	conventional	Arina	Aerosols	735	21	97.14
231	conventional	Arina	Grain	841	27	96.79
233	conventional	Arina	Aerosols	997	30	96.99
233	conventional	Arina	Grain	754	26	96.55
234	organic	Spelt	Aerosols	582	23	96.05
236	extensive	Siala	Aerosols	551	21	96.19
236	extensive	Siala	Grain	1054	39	96.30
245	conventional	Zinal	Aerosols	569	31	94.55
245	conventional	Zinal	Grain	1043	44	95.78
246	extensive	Forel	Aerosols	316	31	90.19
246	extensive	Forel	Grain	845	38	95.50
247	conventional	Zinal	Grain	956	34	96.44

Field ID	Farming system	Wheat variety	Prelevement Type	Nb of reads	Nb of OTUs	Good's coverage
248	conventional	Tapidor	Aerosols	857	19	97.78
250	conventional	Siala	Grain	790	27	96.58
256	conventional	Arina	Grain	992	26	97.38
257	extensive	Levis	Grain	1204	38	96.84
258	conventional	Impression	Grain	939	37	96.06
260	conventional	Zinal	Grain	2219	73	96.71
261	conventional	Impression	Grain	2215	58	97.38
267	conventional	Claro	Grain	986	57	94.22
271	conventional	Runal	Grain	2012	77	96.17
272	conventional	Impression	Grain	500	24	95.20
273	conventional	Manhattan	Grain	513	32	93.76
274	conventional	Claro	Grain	270	18	93.33
275	conventional	Siala	Grain	650	30	95.38

Table S5. Taxonomic assignment of the OTUs. A putative function is assigned when the OTUs present a sequence identity >96%.

OTU name	Genbank accession numbers	Species names with identical hit score	% Identity	Final species name	Taxonomy	Putative functional assignment
AirGrainH1ITS_MID_1_002	KT886526	Passalora robiniae	100%	Passalora robiniae	Ascomycota; Pezizomycotina; Dothideomycetes; Dothideomycetidae; Capnodiales; Mycosphaerellaceae; mitosporic Mycosphaerellaceae; Passalora.	phytopathogen
AirGrainH1ITS_MID_1_004	KT886527	Cladosporium cladosporioides /Cladosporium sp. TMS-2011	100%	Cladosporium cladosporioides	Ascomycota; Pezizomycotina; Dothideomycetes; Dothideomycetidae; Capnodiales; Davidiellaceae; mitosporic Davidiellaceae; Cladosporium.	phytopathogen
AirGrainH1ITS_MID_1_005	KT886528	Sclerotinia sclerotiorum	99%	Sclerotinia sclerotiorum	Ascomycota; Pezizomycotina; Leotiomyces; Helotiales; Sclerotiniaceae; Sclerotinia.	phytopathogen
AirGrainH1ITS_MID_1_006	KT886529	Sporobolomyces roseus	98%	Sporobolomyces roseus	Basidiomycota; Pucciniomycotina; Cystobasidiomycetes; Erythrobasidiales; Erythrobasidiaceae; Sporobolomyces.	biocontrol of plant disease
AirGrainH1ITS_MID_1_008	KT886530	Aureobasidium pullulans	100%	Aureobasidium pullulans	Ascomycota; Pezizomycotina; Dothideomycetes; Dothideomycetidae; Dothideales; Dothioraceae; mitosporic Dothioraceae; Aureobasidium.	Epiphyte
AirGrainH1ITS_MID_1_009	KT886531	Alternaria ethzedia	100%	Alternaria ethzedia	Ascomycota; Pezizomycotina; Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Pleosporaceae; Lewia.	phytopathogen
AirGrainH1ITS_MID_1_012	KT886532	Epicoccum nigrum	100%	Epicoccum nigrum	Ascomycota; Pezizomycotina; Dothideomycetes; Epicoccum.	phytopathogen

AirGrainHNNH1ITS_MID_1_013	KT886533	Gibberella zeae / Fusarium sp. JJP-2009a	99%	Fusarium graminearum	Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; mitosporic Hypocreales; Fusarium.	phytopathogen
AirGrainHNNH1ITS_MID_1_014	KT886534	Alternaria alternata /Alternaria sp. JJP-2009a	100%	Alternaria alternata	Ascomycota; Pezizomycotina; Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Pleosporaceae; mitosporic Pleosporaceae; Alternaria;	phytopathogen
AirGrainHNNH1ITS_MID_1_016	KT886535	Cryptococcus wieringae	100%	Cryptococcus wieringae	Basidiomycota; Agaricomycotina; Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	saprotroph
AirGrainHNNH1ITS_MID_1_019	KT886536	Cryptococcus victoriae	100%	Cryptococcus victoriae	Basidiomycota; Agaricomycotina; Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	saprotroph
AirGrainHNNH1ITS_MID_1_032	KT886537	uncultured Cryptococcus /Cryptococcus victoriae	100%	uncultured Cryptococcus	Basidiomycota; Agaricomycotina; Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	saprotroph
AirGrainHNNH1ITS_MID_1_039	KT886538	Cryptococcus sp. HB 1222	100%	Cryptococcus sp.	Basidiomycota; Agaricomycotina; Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	saprotroph
AirGrainHNNH1ITS_MID_1_045	KT886539	Claviceps purpurea /uncultured Clavicipitaceae	99%	Claviceps purpurea	Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Clavicipitaceae; Claviceps.	phytopathogen
AirGrainHNNH1ITS_MID_1_074	KT886540	Udeniomyces pannonicus	100%	Udeniomyces pannonicus	Basidiomycota; Agaricomycotina; Tremellomycetes; Cystofilobasidiales; mitosporic Cystofilobasidiales; Udeniomyces.	saprotroph
AirGrainHNNH1ITS_MID_1_084	KT886541	Didymella exitialis	99%	Didymella exitialis	Ascomycota; Pezizomycotina; Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Didymellaceae; Didymella.	phytopathogen
AirGrainHNNH1ITS_MID_1_107	KT886542	uncultured fungus	100%	uncultured fungus		
AirGrainHNNH1ITS_MID_1_111	KT886543	Dioszegia crocea	99%	Dioszegia crocea	Basidiomycota;	saprotroph

AirGrainHNNH1ITS_MID_1_131	KT886544	Blumeria graminis	100%	Blumeria graminis	Agaricomycotina; Tremellomycetes; Tremellales; mitosporic Tremellales; Dioszegia.	phytopathogen
AirGrainHNNH1ITS_MID_1_144	KT886545	uncultured fungus	90%	uncultured fungus	Ascomycota; Pezizomycotina; Leotiomyces; Erysiphales; Erysiphaceae; Blumeria.	
AirGrainHNNH1ITS_MID_1_151	KT886546	uncultured fungus	97%	uncultured fungus		
AirGrainHNNH1ITS_MID_1_269	KT886547	uncultured fungus	100%	uncultured fungus		
AirGrainHNNH1ITS_MID_1_278	KT886548	Nigrospora oryzae	100%	Nigrospora oryzae	Ascomycota; Pezizomycotina; Sordariomycetes; Sordariomycetes incertae sedis; Trichosphaeriales; mitosporic Trichosphaeriales; Nigrospora.	saprotroph
AirGrainHNNH1ITS_MID_1_334	KT886549	Mycosphaerella graminicola (Zymoseptoria tritici)	100%	Mycosphaerella graminicola (Zymoseptoria tritici)	Ascomycota; Pezizomycotina; Dothideomycetes; Dothideomycetidae; Capnodiales; Mycosphaerellaceae; Zymoseptoria.	phytopathogen
AirGrainHNNH1ITS_MID_1_375	KT886550	Cryptococcus macerans	99%	Cryptococcus macerans	Basidiomycota; Agaricomycotina; Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	saprotroph
AirGrainHNNH1ITS_MID_1_480	KT886551	uncultured Ascomycota	100%	uncultured Ascomycota		
AirGrainHNNH1ITS_MID_1_497	KT886552	Phaeosphaeria nodorum	99%	Phaeosphaeria nodorum	Ascomycota; Pezizomycotina; Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Phaeosphaeriaceae; Phaeosphaeria.	phytopathogen
AirGrainHNNH1ITS_MID_100_002	KT886553	Cryptococcus sp. CBS 6984	99%	Cryptococcus sp.	Basidiomycota; Agaricomycotina; Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	saprotroph
AirGrainHNNH1ITS_MID_100_085	KT886554	Filobasidium floriforme	98%	Filobasidium floriforme	Basidiomycota; Agaricomycotina; Tremellomycetes; Filobasidiales; Filobasidiaceae;	saprotroph

AirGrainH1ITS_MID_100_112	KT886555	uncultured fungus	98%	uncultured fungus	Filobasidium.	
AirGrainH1ITS_MID_100_181	KT886556	uncultured endophytic fungus	97%	uncultured fungus		
AirGrainH1ITS_MID_101_012	KT886557	Gibberella sp. 1 TMS-2011	100%	Gibberella sp.	Ascomycota; Pezizomycotina;Sordariomycetes; Hypocreomycetidae; Hypocreales; Nectriaceae;Gibberella.	phytopathogen
AirGrainH1ITS_MID_101_019	KT886558	Microdochium nivale	100%	Microdochium nivale	Ascomycota; Pezizomycotina;Sordariomycetes; Xylariomycetidae; Xylariales; mitosporic Xylariales; Microdochium.	phytopathogen
AirGrainH1ITS_MID_101_075	KT886559	Cryptococcus sp. BF108	100%	Cryptococcus sp.	Basidiomycota; Agaricomycotina;Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	saprotroph
AirGrainH1ITS_MID_101_093	KT886560	uncultured Ascomycota	93%	uncultured Ascomycota		
AirGrainH1ITS_MID_101_132	KT886561	uncultured Didymella /Didymella exitialis	98%	uncultured Didymella	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Didymellaceae; Didymella.	
AirGrainH1ITS_MID_102_017	KT886562	Fusarium poae	100%	Fusarium poae	Ascomycota; Pezizomycotina;Sordariomycetes; Hypocreomycetidae; Hypocreales; mitosporic Hypocreales; Fusarium.	phytopathogen
AirGrainH1ITS_MID_102_032	KT886563	uncultured fungus	98%	uncultured fungus		
AirGrainH1ITS_MID_102_056	KT886564	uncultured Basidiomycota	100%	uncultured Basidiomycota		
AirGrainH1ITS_MID_102_057	KT886565	Cryptococcus macerans	99%	Cryptococcus macerans	Basidiomycota; Agaricomycotina;Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	saprotroph
AirGrainH1ITS_MID_102_069	KT886566	Bulleromyces albus	100%	Bulleromyces albus	Basidiomycota; Agaricomycotina;Tremellomycetes; Tremellales; Tremellaceae; Bulleromyces.	saprotroph
AirGrainH1ITS_MID_102_086	KT886567	Phaeosphaeria avenaria f. sp. triticae	100%	Phaeosphaeria avenaria f. sp. triticae	Ascomycota; Pezizomycotina;Dothideomycetes;	phytopathogen

AirGrainHNNH1ITS_MID_102_157	KT886568	Sporobolomyces ruberrimus var. albus /Sporobolomyces roseus	100%	Sporobolomyces roseus	Pleosporomycetidae; Pleosporales; Pleosporineae;Phaeosphaeriaceae; Phaeosphaeria. Basidiomycota; Pucciniomycotina;Cystobasidiomycetes; Erythrobasidiales; Erythrobasidiaceae;Sporobolomyces.	biocontrol of plant disease
AirGrainHNNH1ITS_MID_103_004	KT886569	Alternaria infectoria	95%	Alternaria sp.	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; Lewia.	phytopathogen
AirGrainHNNH1ITS_MID_103_021	KT886570	uncultured fungus	99%	uncultured fungus		
AirGrainHNNH1ITS_MID_103_145	KT886571	uncultured fungus	100%	uncultured fungus		
AirGrainHNNH1ITS_MID_103_168	KT886572	Acremonium sp. BF100	99%	Acremonium sp.	Ascomycota; Pezizomycotina;Sordariomycetes; Hypocreomycetidae; Hypocreales; mitosporic Hypocreales; Acremonium.	
AirGrainHNNH1ITS_MID_103_194	KT886573	uncultured fungus	100%	uncultured fungus		
AirGrainHNNH1ITS_MID_103_206	KT886574	Cladosporium sp. ascomyc1	100%	Cladosporium sp.	Ascomycota; Pezizomycotina;Dothideomycetes; Dothideomycetidae; Capnodiales; Davidiellaceae; mitosporic Davidiellaceae; Cladosporium.	phytopathogen
AirGrainHNNH1ITS_MID_103_246	KT886575	uncultured Cryptococcus	97%	uncultured Cryptococcus	Basidiomycota; Agaricomycotina;Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	
AirGrainHNNH1ITS_MID_104_065	KT886576	Dioszegia hungarica	93%	Dioszegia sp.	Basidiomycota; Agaricomycotina;Tremellomycetes; Tremellales; mitosporic Tremellales; Dioszegia.	saprotroph
AirGrainHNNH1ITS_MID_104_088	KT886577	Phoma herbarum	99%	Phoma herbarum	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Didymellaceae; Peyronellaea.	saprotroph

AirGrainHNNH1ITS_MID_104_169	KT886578	uncultured fungus	96%	uncultured fungus		
AirGrainHNNH1ITS_MID_104_175	KT886579	uncultured fungus	97%	uncultured fungus		
AirGrainHNNH1ITS_MID_104_180	KT886580	Cryptococcus ater	100%	Cryptococcus ater	Basidiomycota; Agaricomycotina;Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	saprotroph
AirGrainHNNH1ITS_MID_104_215	KT886581	uncultured fungus	98%	uncultured fungus		
AirGrainHNNH1ITS_MID_105_116	KT886582	Epicoccum nigrum	100%	Epicoccum nigrum	Ascomycota; Pezizomycotina;Dothideomycetes; Epicoccum.	phytopathogen
AirGrainHNNH1ITS_MID_105_194	KT886583	Cryptococcus oeirensis	100%	Cryptococcus oeirensis	Basidiomycota; Agaricomycotina;Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	saprotroph
AirGrainHNNH1ITS_MID_105_239	KT886584	Peyronellaea pinodella (Phoma pinodella) /Microsphaeropsis amaranthi	100%	Peyronellaea pinodella	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Didymellaceae; Peyronellaea.	phytopathogen
AirGrainHNNH1ITS_MID_106_004	KT886585	uncultured fungus	91%	uncultured fungus		
AirGrainHNNH1ITS_MID_106_012	KT886586	fungal sp. FL-2010d	100%	uncultured fungus		
AirGrainHNNH1ITS_MID_106_115	KT886587	Dioszegia fristingensis	100%	Dioszegia fristingensis	Basidiomycota; Agaricomycotina;Tremellomycetes; Tremellales; mitosporic Tremellales; Dioszegia.	saprotroph
AirGrainHNNH1ITS_MID_107_037	KT886588	uncultured Ascomycota	92%	uncultured Ascomycota		
AirGrainHNNH1ITS_MID_108_159	KT886589	uncultured fungus	100%	uncultured fungus		
AirGrainHNNH1ITS_MID_109_036	KT886590	uncultured Cryptococcus	97%	uncultured Cryptococcus	Basidiomycota; Agaricomycotina;Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	
AirGrainHNNH1ITS_MID_109_094	KT886591	uncultured Cryptococcus	100%	uncultured Cryptococcus	Basidiomycota; Agaricomycotina;Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	
AirGrainHNNH1ITS_MID_110_011	KT886592	Bullera globispora	100%	Bullera globispora	Basidiomycota; Agaricomycotina;Tremellomycetes; Tremellales; mitosporic Tremellales;	saprotroph

AirGrainH1ITS_MID_110_165	KT886593	Pyrenophora teres	96%	Pyrenophora sp.	Bullera. Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; Pyrenophora.	phytopathogen
AirGrainH1ITS_MID_113_031	KT886594	uncultured fungus	99%	uncultured fungus		
AirGrainH1ITS_MID_114_047	KT886595	uncultured fungus	100%	uncultured fungus		
AirGrainH1ITS_MID_114_078	KT886596	Alternaria brassicae	100%	Alternaria brassicae	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; mitosporic Pleosporaceae; Alternaria;	phytopathogen
AirGrainH1ITS_MID_114_202	KT886597	Alternaria conjuncta	96%	Alternaria sp.	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; mitosporic Pleosporaceae; Alternaria;	phytopathogen
AirGrainH1ITS_MID_115_060	KT886598	Cryptococcus sp. HB 1222	97%	Cryptococcus sp.	Basidiomycota; Agaricomycotina;Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	saprotroph
AirGrainH1ITS_MID_115_224	KT886599	Fusarium pulverosum	98%	Fusarium pulverosum	Ascomycota; Pezizomycotina;Sordariomycetes; Hypocreomycetidae; Hypocreales; mitosporic Hypocreales; Fusarium.	phytopathogen
AirGrainH1ITS_MID_115_226	KT886600	uncultured endophytic fungus /fungal sp. FL-2010d	96%	uncultured fungus		
AirGrainH1ITS_MID_116_024	KT886601	uncultured fungus	97%	uncultured fungus		
AirGrainH1ITS_MID_117_128	KT886602	uncultured Cryptococcus /Cryptococcus victoriae	98%	uncultured Cryptococcus	Basidiomycota; Agaricomycotina;Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	
AirGrainH1ITS_MID_118_076	KT886603	Alternaria infectoria	98%	Alternaria infectoria	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; Lewia.	phytopathogen

AirGrainHNH1ITS_MID_120_249	KT886604	uncultured Cryptococcus	100%	uncultured Cryptococcus	Basidiomycota; Agaricomycotina; Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	
AirGrainHNH1ITS_MID_121_010	KT886605	Leptosphaerulina sp. BF19	99%	Leptosphaerulina sp.	Ascomycota; Pezizomycotina; Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Didymellaceae; Leptosphaerulina.	
AirGrainHNH1ITS_MID_121_039	KT886606	Choiromyces venosus	99%	Choiromyces venosus	Ascomycota; Pezizomycotina; Pezizomycetes; Pezizales; Tuberales; Choiromyces.	Ectomycorrhizal
AirGrainHNH1ITS_MID_121_115	KT886607	Microdochium sp. 00019	100%	Microdochium sp.	Ascomycota; Pezizomycotina; Sordariomycetes; Xylariomycetidae; Xylariales; mitosporic Xylariales; Microdochium.	phytopathogen
AirGrainHNH1ITS_MID_122_011	KT886608	Sporidiobolus pararoseus	98%	Sporidiobolus pararoseus	Basidiomycota; Pucciniomycotina; Microbotryomycetes; Sporidiobolales; Sporidiobolus.	saprotroph
AirGrainHNH1ITS_MID_122_164	KT886609	Phaeosphaeria nodorum	98%	Phaeosphaeria nodorum	Ascomycota; Pezizomycotina; Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Phaeosphaeriaceae; Phaeosphaeria.	phytopathogen
AirGrainHNH1ITS_MID_122_185	KT886610	uncultured Cryptococcus	97%	uncultured Cryptococcus	Basidiomycota; Agaricomycotina; Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	
AirGrainHNH1ITS_MID_122_261	KT886611	Alternaria infectoria	97%	Alternaria infectoria	Ascomycota; Pezizomycotina; Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Pleosporaceae; Lewia.	phytopathogen
AirGrainHNH1ITS_MID_123_028	KT886612	uncultured fungus	97%	uncultured fungus		
AirGrainHNH1ITS_MID_123_030	KT886613	Alternaria conjuncta	96%	Alternaria sp.	Ascomycota; Pezizomycotina; Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Pleosporaceae; mitosporic	phytopathogen

AirGrainHNNH1ITS_MID_123_032	KT886614	uncultured fungus	98%	uncultured fungus	Pleosporaceae; Alternaria;	
AirGrainHNNH1ITS_MID_123_218	KT886615	uncultured fungus	98%	uncultured fungus		
AirGrainHNNH1ITS_MID_123_286	KT886616	uncultured fungus	97%	uncultured fungus		
AirGrainHNNH1ITS_MID_123_288	KT886617	uncultured fungus	100%	uncultured fungus		
AirGrainHNNH1ITS_MID_124_209	KT886618	Alternaria infectoria	92%	Alternaria sp.	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; Lewia.	phytopathogen
AirGrainHNNH1ITS_MID_127_066	KT886619	Microdochium nivale /Microdochium sp. 00019	100%	Microdochium nivale	Ascomycota; Pezizomycotina;Sordariomycetes; Xylariomycetidae; Xylariales; mitosporic Xylariales; Microdochium.	phytopathogen
AirGrainHNNH1ITS_MID_127_185	KT886620	uncultured soil fungus	91%	uncultured fungus		
AirGrainHNNH1ITS_MID_127_230	KT886621	uncultured fungus	97%	uncultured fungus		
AirGrainHNNH1ITS_MID_128_050	KT886622	Cryptococcus victoriae	96%	Cryptococcus sp.	Basidiomycota; Agaricomycotina;Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	saprotroph
AirGrainHNNH1ITS_MID_128_146	KT886623	Pleospora herbarum	100%	Pleospora herbarum	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Pleosporaceae; Pleospora.	phytopathogen
AirGrainHNNH1ITS_MID_132_023	KT886624	Cryptococcus carnescens	100%	Cryptococcus carnescens	Basidiomycota; Agaricomycotina;Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	saprotroph
AirGrainHNNH1ITS_MID_132_178	KT886625	Alternaria infectoria	97%	Alternaria infectoria	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; Lewia.	phytopathogen
AirGrainHNNH1ITS_MID_135_048	KT886626	uncultured endophytic fungus	100%	uncultured fungus		
AirGrainHNNH1ITS_MID_136_021	KT886627	uncultured soil fungus	100%	uncultured fungus		
AirGrainHNNH1ITS_MID_136_214	KT886628	Acremonium sp. SS-1449 AM262391.1	98%	Acremonium sp.	Ascomycota; Pezizomycotina;Sordariomycetes; Hypocreomycetidae; Hypocreales;	

AirGrainH1ITS_MID_136_224	KT886629	Sporidiobolus sp. CBS 5541	99%	Sporidiobolus sp.	mitosporic Hypocreales; Acremonium. Basidiomycota;	saprotroph
AirGrainH1ITS_MID_136_233	KT886630	Cryptococcus flavescens	100%	Cryptococcus flavescens	Pucciniomycotina;Microbotryomycetes; Sporidiobolales; Sporidiobolus. Basidiomycota;	saprotroph
AirGrainH1ITS_MID_137_049	KT886631	uncultured Basidiomycota	98%	uncultured Basidiomycota	Agaricomycotina;Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	
AirGrainH1ITS_MID_139_191	KT886632	Alternaria ethzedia	98%	Alternaria ethzedia	Ascomycota;	phytopathogen
AirGrainH1ITS_MID_141_138	KT886633	Alternaria ethzedia	96%	Alternaria sp.	Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; Lewia. Ascomycota;	phytopathogen
AirGrainH1ITS_MID_141_178	KT886634	uncultured fungus	99%	uncultured fungus	Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; Lewia.	
AirGrainH1ITS_MID_142_024	KT886635	Sporobolomyces coprosmae	95%	Sporobolomyces sp.	Basidiomycota;	biocontrol of plant disease
AirGrainH1ITS_MID_142_212	KT886636	uncultured Ascomycota	96%	uncultured Ascomycota	Pucciniomycotina;Cystobasidiomycetes; Erythrobasidiales; Erythrobasidiaceae;Sporobolomyces.	
AirGrainH1ITS_MID_142_289	KT886637	Sporobolomyces roseus /Sporobolomyces ruberrimus var. albus	99%	Sporobolomyces roseus	Basidiomycota;	biocontrol of plant disease
AirGrainH1ITS_MID_143_009	KT886638	Capronia semiimmersa (Phialophora americana)	100%	Capronia semiimmersa	Pucciniomycotina;Cystobasidiomycetes; Erythrobasidiales; Erythrobasidiaceae;Sporobolomyces. Ascomycota;	saprotroph
AirGrainH1ITS_MID_143_018	KT886639	Eurotium amstelodami	99%	Eurotium amstelodami	Pezizomycotina;Eurotiomycetes; Capronia. Ascomycota;	Human pathogen

AirGrainHNNH1ITS_MID_143_084	KT886640	uncultured fungus	97%	uncultured fungus	Eurotiomycetidae; Eurotiales; Trichocomaceae; Eurotium.	
AirGrainHNNH1ITS_MID_143_185	KT886641	Ramularia collo-cygni	99%	Ramularia collo-cygni	Ascomycota; Pezizomycotina;Dothideomycetes; Dothideomycetidae; Capnodiales; Mycosphaerellaceae; mitosporic Mycosphaerellaceae; Ramularia.	phytopathogen
AirGrainHNNH1ITS_MID_144_017	KT886642	uncultured fungus	96%	uncultured fungus		
AirGrainHNNH1ITS_MID_145_019	KT886643	uncultured fungus	96%	uncultured fungus		
AirGrainHNNH1ITS_MID_145_067	KT886644	Epicoccum nigrum	99%	Epicoccum nigrum	Ascomycota; Pezizomycotina;Dothideomycetes; Epicoccum.	phytopathogen
AirGrainHNNH1ITS_MID_145_201	KT886645	Pleospora herbarum	94%	Pleospora herbarum	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Pleosporaceae; Pleospora.	phytopathogen
AirGrainHNNH1ITS_MID_145_270	KT886646	uncultured fungus	97%	uncultured fungus		
AirGrainHNNH1ITS_MID_147_017	KT886647	Passalora robiniae	99%	Passalora robiniae	Ascomycota; Pezizomycotina;Dothideomycetes; Dothideomycetidae; Capnodiales;Mycosphaerellaceae; mitosporic Mycosphaerellaceae; Passalora.	phytopathogen
AirGrainHNNH1ITS_MID_147_433	KT886648	uncultured fungus	100%	uncultured fungus		
AirGrainHNNH1ITS_MID_147_516	KT886649	uncultured fungus	100%	uncultured fungus		
AirGrainHNNH1ITS_MID_148_046	KT886650	uncultured fungus	98%	uncultured fungus		
AirGrainHNNH1ITS_MID_148_226	KT886651	Cryptococcus foliicola	100%	Cryptococcus foliicola	Basidiomycota; Agaricomycotina;Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	saprotroph
AirGrainHNNH1ITS_MID_148_254	KT886652	Cryptococcus heimaeyensis /Cryptococcus foliicola	94%	Cryptococcus sp.	Basidiomycota; Agaricomycotina;Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	saprotroph
AirGrainHNNH1ITS_MID_148_311	KT886653	uncultured fungus	99%	uncultured fungus		
AirGrainHNNH1ITS_MID_150_109	KT886654	Phaeosphaeria nodorum	96%	Phaeosphaeria sp.	Ascomycota; Pezizomycotina;Dothideomycetes;	phytopathogen

AirGrainHNNH1ITS_MID_150_301	KT886655	uncultured fungus	98%	uncultured fungus	Pleosporomycetidae; Pleosporales; Pleosporineae; Phaeosphaeriaceae; Phaeosphaeria.	
AirGrainHNNH1ITS_MID_151_028	KT886656	Erysiphe betae	96%	Erysiphe sp.	Ascomycota; Pezizomycotina; Leotiomyces; Erysiphales; Erysiphaceae; Erysiphe.	phytopathogen
AirGrainHNNH1ITS_MID_151_121	KT886657	Ampelomyces sp. B2	98%	Ampelomyces sp.	Ascomycota; Pezizomycotina; Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Leptosphaeriaceae; mitosporic Leptosphaeriaceae; Ampelomyces.	phytopathogen
AirGrainHNNH1ITS_MID_151_161	KT886658	uncultured Cryptococcus	98%	uncultured Cryptococcus	Basidiomycota; Agaricomycotina; Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	
AirGrainHNNH1ITS_MID_151_186	KT886659	Sporobolomyces roseus	97%	Sporobolomyces roseus	Basidiomycota; Pucciniomycotina; Cystobasidiomycetes; Erythrobasidiales; Erythrobasidiaceae; Sporobolomyces.	biocontrol of plant disease
AirGrainHNNH1ITS_MID_151_226	KT886660	uncultured fungus	95%	uncultured fungus		
AirGrainHNNH1ITS_MID_151_385	KT886661	Chalastospora ellipsoidea	98%	Chalastospora ellipsoidea	Ascomycota; Pezizomycotina; Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Pleosporaceae; mitosporic Pleosporales; Chalastospora.	
AirGrainHNNH1ITS_MID_151_436	KT886662	Ulocladium sp. VL204 /Ulocladium consortiale	98%	Ulocladium consortiale	Ascomycota; Pezizomycotina; Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Pleosporaceae; mitosporic Pleosporaceae; Ulocladium.	
AirGrainHNNH1ITS_MID_151_490	KT886663	Taphrina padi	99%	Taphrina padi	Ascomycota; Taphrinomycotina; Taphrinomycetes; Taphrinales; Taphrinaceae; Taphrina.	phytopathogen
AirGrainHNNH1ITS_MID_153_116	KT886664	Lewia infectoria	93%	Lewia sp.	Ascomycota;	phytopathogen

AirGrainHNNH1ITS_MID_16_073	KT886665	uncultured Ascomycota sp. I391	96%	uncultured Ascomycota	Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Pleosporaceae;mitosporic Pleosporales; Chalastospora.	
AirGrainHNNH1ITS_MID_17_125	KT886666	uncultured fungus	100%	uncultured fungus		
AirGrainHNNH1ITS_MID_18_111	KT886667	Fusarium poae	95%	Fusarium sp.	Ascomycota; Pezizomycotina;Sordariomycetes; Hypocreomycetidae; Hypocreales; mitosporic Hypocreales; Fusarium.	phytopathogen
AirGrainHNNH1ITS_MID_2_039	KT886668	uncultured fungal sp. D9	100%	uncultured fungus		
AirGrainHNNH1ITS_MID_2_099	KT886669	Microbotryum duriaeanum (Ustilago duriaeana)	99%	Microbotryum duriaeanum	Basidiomycota; Pucciniomycotina; Microbotryomycetes; Microbotryales; Microbotryaceae; Microbotryum.	saprotroph
AirGrainHNNH1ITS_MID_2_228	KT886670	Alternaria ethzedia	97%	Alternaria ethzedia	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; Lewia.	phytopathogen
AirGrainHNNH1ITS_MID_22_058	KT886671	Cryptococcus victoriae	100%	Cryptococcus victoriae	Basidiomycota; Agaricomycotina;Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	saprotroph
AirGrainHNNH1ITS_MID_22_095	KT886672	Microdochium bolleyi	100%	Microdochium bolleyi	Ascomycota; Pezizomycotina;Sordariomycetes; Xylariomycetidae; Xylariales; mitosporic Xylariales; Microdochium.	phytopathogen
AirGrainHNNH1ITS_MID_26_058	KT886673	uncultured fungus	100%	uncultured fungus		
AirGrainHNNH1ITS_MID_26_144	KT886674	Dioszegia butyracea	99%	Dioszegia butyracea	Basidiomycota; Agaricomycotina;Tremellomycetes; Tremellales; mitosporic Tremellales; Dioszegia.	phytopathogen
AirGrainHNNH1ITS_MID_29_099	KT886675	Cryptococcus victoriae	98%	Cryptococcus victoriae	Basidiomycota; Agaricomycotina;Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	saprotroph
AirGrainHNNH1ITS_MID_30_068	KT886676	uncultured fungus		uncultured fungus		

AirGrainHNNH1ITS_MID_30_136	KT886677	uncultured fungus		uncultured fungus		
AirGrainHNNH1ITS_MID_32_116	KT886678	Alternaria ethzedia	96%	Alternaria sp.	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; Lewia.	phytopathogen
AirGrainHNNH1ITS_MID_32_319	KT886679	uncultured fungus		uncultured fungus		
AirGrainHNNH1ITS_MID_33_169	KT886680	Udeniomyces pyricola	99%	Udeniomyces pyricola	Basidiomycota; Agaricomycotina;Tremellomycetes; Cystofilobasidiales; mitosporic Cystofilobasidiales; Udeniomyces.	saprotroph
AirGrainHNNH1ITS_MID_33_177	KT886681	uncultured soil fungus		uncultured fungus		
AirGrainHNNH1ITS_MID_34_031	KT886682	uncultured Cryptococcus		uncultured Cryptococcus	Basidiomycota; Agaricomycotina;Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	
AirGrainHNNH1ITS_MID_34_112	KT886683	uncultured fungus		uncultured fungus		
AirGrainHNNH1ITS_MID_34_149	KT886684	Mycosphaerella fragariae	99%	Mycosphaerella fragariae	Ascomycota; Pezizomycotina;Dothideomycetes; Dothideomycetidae; Capnodiales; Mycosphaerellaceae; mitosporic Mycosphaerellaceae; Ramularia.	phytopathogen
AirGrainHNNH1ITS_MID_35_075	KT886685	uncultured fungus		uncultured fungus		
AirGrainHNNH1ITS_MID_35_129	KT886686	Alternaria conjuncta /Lewia ethzedia/Alternaria sp. B28B/	100%	Alternaria conjuncta	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; mitosporic Pleosporaceae; Alternaria;	phytopathogen
AirGrainHNNH1ITS_MID_35_282	KT886687	Plectosphaerella cucumerina	100%	Plectosphaerella cucumerina	Ascomycota; Pezizomycotina;Sordariomycetes; Hypocreomycetidae; Glomerellales; Plectosphaerellaceae; Plectosphaerella.	phytopathogen
AirGrainHNNH1ITS_MID_36_097	KT886688	uncultured soil fungus		uncultured fungus		
AirGrainHNNH1ITS_MID_36_219	KT886689	Sporobolomyces coprosmae		Sporobolomyces coprosmae	Basidiomycota; Pucciniomycotina;Cystobasidiomycetes; Erythrobasidiales; Erythrobasidiaceae;Sporobolomyces.	biocontrol of plant disease

AirGrainHNH1ITS_MID_37_387	KT886690	uncultured ascomycete sp. 6/97-53		uncultured Ascomycota		
AirGrainHNH1ITS_MID_37_437	KT886691	uncultured Ascomycota		uncultured Ascomycota		
AirGrainHNH1ITS_MID_38_073	KT886692	Phoma exigua (Boeremia exigua)	100%	Phoma exigua	Ascomycota; Pezizomycotina; Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Didymellaceae; Peyronellaea.	phytopathogen
AirGrainHNH1ITS_MID_38_382	KT886693	Microdochium nivale	100%	Microdochium nivale	Ascomycota; Pezizomycotina; Sordariomycetes; Xylariomycetidae; Xylariales; mitosporic Xylariales; Microdochium.	phytopathogen
AirGrainHNH1ITS_MID_39_046	KT886694	uncultured Basidiomycota		uncultured Basidiomycota		
AirGrainHNH1ITS_MID_39_364	KT886695	Sporobolomyces roseus		Sporobolomyces roseus	Basidiomycota; Pucciniomycotina; Cystobasidiomycetes; Erythrobasidiales; Erythrobasidiaceae; Sporobolomyces.	biocontrol of plant disease
AirGrainHNH1ITS_MID_41_077	KT886696	Didymella exitialis		Didymella exitialis	Ascomycota; Pezizomycotina; Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Didymellaceae; Didymella.	phytopathogen
AirGrainHNH1ITS_MID_41_260	KT886697	Microdochium sp. 00019		Microdochium sp. 00019	Ascomycota; Pezizomycotina; Sordariomycetes; Xylariomycetidae; Xylariales; mitosporic Xylariales; Microdochium.	phytopathogen
AirGrainHNH1ITS_MID_42_181	KT886698	uncultured fungus		uncultured fungus		
AirGrainHNH1ITS_MID_43_084	KT886699	Phoma herbarum		Phoma herbarum	Ascomycota; Pezizomycotina; Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Didymellaceae; Peyronellaea.	saprotroph
AirGrainHNH1ITS_MID_43_220	KT886700	Protomyces sp	93%	Protomyces sp	Ascomycota; Taphrinomycotina; Taphrinomycetes; Taphrinales;	

AirGrainHNNH1ITS_MID_47_308	KT886701	uncultured fungus		uncultured fungus	Protomycetaceae; Protomyces.	
AirGrainHNNH1ITS_MID_47_699	KT886702	uncultured fungus	99%	uncultured fungus		
AirGrainHNNH1ITS_MID_47_938	KT886703	uncultured fungus		uncultured fungus		
AirGrainHNNH1ITS_MID_48_184	KT886704	Drechslera avenae		Drechslera avenae	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Pleosporaceae; mitosporic Pleosporaceae; Drechslera.	phytopathogen
AirGrainHNNH1ITS_MID_48_284	KT886705	Phaeosphaeria sp	97%	uncultured fungus	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Phaeosphaeriaceae; Phaeosphaeria.	
AirGrainHNNH1ITS_MID_5_116	KT886706	Sporobolomyces roseus		Sporobolomyces roseus	Basidiomycota; Pucciniomycotina;Cystobasidiomycetes; Erythrobasidiales; Erythrobasidiaceae;Sporobolomyces.	biocontrol of plant disease
AirGrainHNNH1ITS_MID_5_325	KT886707	Rhodotorula glutinis		Rhodotorula glutinis	Basidiomycota; Pucciniomycotina;Microbotryomycetes; Microbotryomycetes incertae sedis; mitosporicMicrobotryomycetidae incertae sedis; Rhodotorula.	phytopathogen
AirGrainHNNH1ITS_MID_5_537	KT886708	uncultured fungus		uncultured fungus		
AirGrainHNNH1ITS_MID_50_048	KT886709	uncultured Ascomycota		uncultured Ascomycota		
AirGrainHNNH1ITS_MID_50_470	KT886710	Lophodermium actinothyrium	95%	Lophodermium actinothyrium	Ascomycota; Pezizomycotina;Leotiomycetes; Rhytismatales; Rhytismataceae; Lophodermium.	endophytic
AirGrainHNNH1ITS_MID_50_851	KT886711	Coniothyrium sp. BF62	98%	Coniothyrium sp.	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Pleosporaceae;mitosporic Pleosporales; Coniothyrium.	phytopathogen

AirGrainHNNH1ITS_MID_50_861	KT886712	uncultured endophytic fungus		uncultured fungus		
AirGrainHNNH1ITS_MID_50_873	KT886713	Cryptococcus victoriae	98%	Cryptococcus victoriae	Basidiomycota; Agaricomycotina; Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	saprotroph
AirGrainHNNH1ITS_MID_50_972	KT886714	uncultured fungus		uncultured fungus		
AirGrainHNNH1ITS_MID_52_281	KT886715	Sporobolomyces roseus		Sporobolomyces roseus	Basidiomycota; Pucciniomycotina; Cystobasidiomycetes; Erythrobasidiales; Erythrobasidiaceae; Sporobolomyces.	biocontrol of plant disease
AirGrainHNNH1ITS_MID_55_126	KT886716	Hypocreales sp. NG_p26		uncultured Hypocreales	Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; mitosporic Hypocreales;	
AirGrainHNNH1ITS_MID_57_042	KT886717	Alternaria alternata	100%	Alternaria alternata	Ascomycota; Pezizomycotina; Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Pleosporaceae; mitosporic Pleosporaceae; Alternaria;	phytopathogen
AirGrainHNNH1ITS_MID_58_025	KT886718	uncultured Tremellomycetes		uncultured Tremellomycetes	Basidiomycota; Agaricomycotina; Tremellomycetes; Tremellales; Tremellaceae	
AirGrainHNNH1ITS_MID_58_117	KT886719	Mycosphaerella graminicola		Mycosphaerella graminicola	Ascomycota; Pezizomycotina; Dothideomycetes; Dothideomycetidae; Capnodiales; Mycosphaerellaceae; Zymoseptoria.	phytopathogen
AirGrainHNNH1ITS_MID_58_220	KT886720	Cryptococcus laurentii	100%	Cryptococcus laurentii	Basidiomycota; Agaricomycotina; Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	
AirGrainHNNH1ITS_MID_6_397	KT886721	uncultured Cryptococcus		uncultured Cryptococcus	Basidiomycota; Agaricomycotina; Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	
AirGrainHNNH1ITS_MID_60_107	KT886722	Alternaria ethzedia	97%	Alternaria ethzedia	Ascomycota; Pezizomycotina; Dothideomycetes; Pleosporomycetidae; Pleosporales;	phytopathogen

AirGrainHNNH1ITS_MID_61_024	KT886723	uncultured Ascomycota sp. I306	98%	uncultured Ascomycota	Pleosporineae;Pleosporaceae; Lewia.	
AirGrainHNNH1ITS_MID_61_142	KT886724	uncultured endophytic fungus	98%	uncultured fungus		
AirGrainHNNH1ITS_MID_64_116	KT886725	uncultured fungus	96%	uncultured fungus		
AirGrainHNNH1ITS_MID_65_093	KT886726	uncultured fungus	99%	uncultured fungus		
AirGrainHNNH1ITS_MID_68_204	KT886727	Tilletiopsis washingtonensis	100%	Tilletiopsis washingtonensis	Basidiomycota; Ustilaginomycotina;Exobasidiomycetes; Entylomatales; Entylomatales incertae sedis.	
AirGrainHNNH1ITS_MID_69_116	KT886728	Cryptococcus sp. BF108	99%	Cryptococcus sp.	Basidiomycota; Agaricomycotina;Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	saprotroph
AirGrainHNNH1ITS_MID_72_088	KT886729	Didymella exitialis	93%	Didymella exitialis	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Didymellaceae; Didymella.	phytopathogen
AirGrainHNNH1ITS_MID_73_174	KT886730	Sporobolomyces roseus /Sporobolomyces ruberrimus var. albus	99%	Sporobolomyces roseus	Basidiomycota; Pucciniomycotina;Cystobasidiomycetes; Erythrobasidiales; Erythrobasidiaceae;Sporobolomyces.	biocontrol of plant disease
AirGrainHNNH1ITS_MID_74_004	KT886731	Cladosporium herbarum	100%	Cladosporium herbarum	Ascomycota; Pezizomycotina;Dothideomycetes; Dothideomycetidae; Capnodiales; Davidiellaceae; mitosporic Davidiellaceae; Cladosporium.	
AirGrainHNNH1ITS_MID_74_144	KT886732	uncultured Pleospora	100%	uncultured Pleospora	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Pleosporaceae; Pleospora.	
AirGrainHNNH1ITS_MID_74_169	KT886733	Phaeosphaeria nodorum	98%	Phaeosphaeria nodorum	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Phaeosphaeriaceae; Phaeosphaeria.	phytopathogen

AirGrainHNNH1ITS_MID_74_293	KT886734	Acremonium rutilum	100%	Acremonium rutilum	Ascomycota; Pezizomycotina;Sordariomycetes; Hypocreomycetidae; Hypocreales; mitosporic Hypocreales; Acremonium.	phytopathogen
AirGrainHNNH1ITS_MID_76_369	KT886735	uncultured fungus	96%	uncultured fungus		
AirGrainHNNH1ITS_MID_76_384	KT886736	Microdochium sp. 00019	97%	Microdochium sp.	Ascomycota; Pezizomycotina;Sordariomycetes; Xylariomycetidae; Xylariales; mitosporic Xylariales; Microdochium.	phytopathogen
AirGrainHNNH1ITS_MID_77_207	KT886737	uncultured Cryptococcus	96%	uncultured Cryptococcus	Basidiomycota; Agaricomycotina;Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	
AirGrainHNNH1ITS_MID_78_106	KT886738	uncultured Ascomycota sp. LM221	99%	uncultured Ascomycota sp.		
AirGrainHNNH1ITS_MID_79_034	KT886739	Cryptococcus victoriae /uncultured Cryptococcus	95%	uncultured Cryptococcus	Basidiomycota; Agaricomycotina;Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	saprotroph
AirGrainHNNH1ITS_MID_79_046	KT886740	uncultured Basidiomycota	98%	uncultured Basidiomycota		
AirGrainHNNH1ITS_MID_80_021	KT886741	Rhodotorula fujisanensis	100%	Rhodotorula fujisanensis	Basidiomycota; Pucciniomycotina;Microbotryomycetes; Microbotryomycetes incertae sedis; mitosporicMicrobotryomycetidae incertae sedis; Rhodotorula.	phytopathogen
AirGrainHNNH1ITS_MID_80_195	KT886742	Alternaria conjuncta	99%	Alternaria conjuncta	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; mitosporic Pleosporaceae; Alternaria;	phytopathogen
AirGrainHNNH1ITS_MID_89_123	KT886743	uncultured fungus	95%	uncultured fungus		
AirGrainHNNH1ITS_MID_91_724	KT886744	uncultured fungus	100%	uncultured fungus		
AirGrainHNNH1ITS_MID_96_136	KT886745	Phaeosphaeria nodorum	90%	Phaeosphaeria nodorum	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Phaeosphaeriaceae;	phytopathogen

AirGrainH2H2ITS_MID_103_362	KT886746	Leptosphaeria sp. GFI 123	100%	Leptosphaeria sp.	Phaeosphaeria. Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Leptosphaeriaceae; Leptosphaeria; Leptosphaeria maculans complex.	
AirGrainH2H2ITS_MID_104_154	KT886747	uncultured Taphrina	98%	uncultured Taphrina	Ascomycota; Taphrinomycotina;Taphrinomycetes; Taphrinales; Taphrinaceae; Taphrina.	
AirGrainH2H2ITS_MID_107_421	KT886748	uncultured Basidiomycota	100%	uncultured Basidiomycota		
AirGrainH2H2ITS_MID_108_033	KT886749	uncultured Cryptococcus	98%	uncultured Cryptococcus	Basidiomycota; Agaricomycotina;Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	
AirGrainH2H2ITS_MID_108_206	KT886750	uncultured Basidiomycota	100%	uncultured Basidiomycota		
AirGrainH2H2ITS_MID_11_274	KT886751	uncultured fungus	98%	uncultured fungus		
AirGrainH2H2ITS_MID_11_296	KT886752	uncultured fungus	98%	uncultured fungus		
AirGrainH2H2ITS_MID_110_077	KT886753	uncultured fungus	93%	uncultured fungus		
AirGrainH2H2ITS_MID_110_245	KT886754	fungal sp. FL-2010d	98%	Alternaria sp.		
AirGrainH2H2ITS_MID_111_370	KT886755	Alternaria conjuncta	96%	Alternaria sp.	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; mitosporic Pleosporaceae; Alternaria;	phytopathogen
AirGrainH2H2ITS_MID_113_197	KT886756	Gibberella zeae (Fusarium graminearum)	99%	Fusarium graminearum	Ascomycota; Pezizomycotina;Sordariomycetes; Hypocreomycetidae; Hypocreales; Nectriaceae;Gibberella.	phytopathogen
AirGrainH2H2ITS_MID_114_131	KT886757	Pleosporales sp. PIMO_118	98%	uncultured Pleosporales	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales;	phytopathogen
AirGrainH2H2ITS_MID_114_260	KT886758	Sporobolomyces sp. Vega543	94%	Sporobolomyces sp.	Basidiomycota; Pucciniomycotina;Cystobasidiomycetes; Erythrobasidiales; Erythrobasidiaceae;Sporobolomyces.	biocontrol of plant disease

AirGrainH2H2ITS_MID_114_325	KT886759	uncultured Pleosporaceae	94%	uncultured Pleosporaceae	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; mitosporic Pleosporaceae	
AirGrainH2H2ITS_MID_116_298	KT886760	uncultured fungus	97%	uncultured fungus		
AirGrainH2H2ITS_MID_117_261	KT886761	Alternaria infectoria	100%	Alternaria infectoria	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; Lewia.	phytopathogen
AirGrainH2H2ITS_MID_123_088	KT886762	Didymella exitialis	100%	Didymella exitialis	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Didymellaceae; Didymella.	phytopathogen
AirGrainH2H2ITS_MID_123_169	KT886763	Alternaria infectoria	99%	Alternaria infectoria	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; Lewia.	phytopathogen
AirGrainH2H2ITS_MID_126_247	KT886764	Cryptococcus sp. HB 1222	100%	Cryptococcus sp.	Basidiomycota; Agaricomycotina;Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	saprotroph
AirGrainH2H2ITS_MID_127_259	KT886765	Fusarium oxysporum	100%	Fusarium oxysporum	Ascomycota; Pezizomycotina;Sordariomycetes; Hypocreomycetidae; Hypocreales; mitosporic Hypocreales; Fusarium.	phytopathogen
AirGrainH2H2ITS_MID_130_127	KT886766	Sporidiobolales sp. LM531	96%	Sporidiobolales sp.	Basidiomycota; Pucciniomycotina;Microbotryomycetes; Sporidiobolales	saprotroph
AirGrainH2H2ITS_MID_131_222	KT886767	Alternaria ethzedia	98%	Alternaria ethzedia	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; Lewia.	
AirGrainH2H2ITS_MID_152_063	KT886768	Rhodotorula sp. HB 1211	98%	Rhodotorula sp.	Basidiomycota; Pucciniomycotina;Microbotryomycetes; Microbotryomycetes incertae sedis;	phytopathogen

AirGrainHNNH2ITS_MID_152_065	KT886769	Alternaria ethzedia	95%	Alternaria sp.	mitosporicMicrobotryomycetidae incertae sedis; Rhodotorula. Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; Lewia.	phytopathogen
AirGrainHNNH2ITS_MID_152_331	KT886770	uncultured fungus	89%	uncultured fungus		
AirGrainHNNH2ITS_MID_152_810	KT886771	uncultured fungus	98%	uncultured fungus		
AirGrainHNNH2ITS_MID_152_875	KT886772	uncultured fungus	98%	uncultured fungus		
AirGrainHNNH2ITS_MID_152_938	KT886773	fungal sp. FL-2010d	95%	uncultured fungus		
AirGrainHNNH2ITS_MID_19_120	KT886774	Phaeosphaeria pontiformis /Phaeosphaeria eustoma		Phaeosphaeria sp.	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Phaeosphaeriaceae; Phaeosphaeria.	phytopathogen
AirGrainHNNH2ITS_MID_22_075	KT886775	Chalastospora gossypii	95%	Chalastospora sp.	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Pleosporaceae;mitosporic Pleosporales; Chalastospora.	phytopathogen
AirGrainHNNH2ITS_MID_22_091	KT886776	Alternaria ethzedia	98%	Alternaria ethzedia	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; Lewia.	phytopathogen
AirGrainHNNH2ITS_MID_22_123	KT886777	fungal sp. FL-2010d	98%	uncultured fungus		
AirGrainHNNH2ITS_MID_26_255	KT886778	uncultured fungus	100%	uncultured fungus		
AirGrainHNNH2ITS_MID_32_463	KT886779	uncultured fungus	99%	uncultured fungus		
AirGrainHNNH2ITS_MID_32_508	KT886780	uncultured fungus	96%	uncultured fungus		
AirGrainHNNH2ITS_MID_34_242	KT886781	uncultured fungus	96%	uncultured fungus		
AirGrainHNNH2ITS_MID_36_275	KT886782	Stagonospora sp. 4/99-5	97%	Stagonospora sp.	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Pleosporaceae; mitosporic Pleosporaceae; Stagonospora.	phytopathogen

AirGrainH2H2ITS_MID_36_380	KT886783	Cryptococcus wieringae	99%	Cryptococcus wieringae	Basidiomycota; Agaricomycotina; Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	saprotroph
AirGrainH2H2ITS_MID_39_391	KT886784	uncultured fungus	98%	uncultured fungus		
AirGrainH2H2ITS_MID_4_394	KT886785	uncultured fungus	96%	uncultured fungus		
AirGrainH2H2ITS_MID_41_125	KT886786	uncultured Ascomycota	100%	uncultured Ascomycota		
AirGrainH2H2ITS_MID_41_316	KT886787	uncultured fungus	96%	uncultured fungus		
AirGrainH2H2ITS_MID_41_328	KT886788	uncultured fungus	100%	uncultured fungus		
AirGrainH2H2ITS_MID_43_207	KT886789	Fusarium poae	100%	Fusarium poae	Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; mitosporic Hypocreales; Fusarium.	phytopathogen
AirGrainH2H2ITS_MID_45_180	KT886790	uncultured fungus	100%	uncultured fungus		
AirGrainH2H2ITS_MID_45_274	KT886791	uncultured fungus	95%	uncultured fungus		
AirGrainH2H2ITS_MID_51_365	KT886792	Alternaria ethzedia	98%	Alternaria ethzedia	Ascomycota; Pezizomycotina; Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Pleosporaceae; Lewia.	phytopathogen
AirGrainH2H2ITS_MID_57_041	KT886793	uncultured fungus	98%	uncultured fungus		
AirGrainH2H2ITS_MID_59_018	KT886794	uncultured fungus	99%	uncultured fungus		
AirGrainH2H2ITS_MID_61_050	KT886795	uncultured fungus	99%	uncultured fungus		
AirGrainH2H2ITS_MID_62_203	KT886796	uncultured fungus	99%	uncultured fungus		
AirGrainH2H2ITS_MID_62_381	KT886797	Sporobolomyces roseus	98%	Sporobolomyces roseus	Basidiomycota; Pucciniomycotina; Cystobasidiomycetes; Erythrobasidiales; Erythrobasidiaceae; Sporobolomyces.	biocontrol of plant disease
AirGrainH2H2ITS_MID_63_072	KT886798	uncultured Cryptococcus	98%	uncultured Cryptococcus	Basidiomycota; Agaricomycotina; Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	
AirGrainH2H2ITS_MID_63_306	KT886799	Cryptococcus victoriae	98%	Cryptococcus victoriae	Basidiomycota; Agaricomycotina; Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	saprotroph
AirGrainH2H2ITS_MID_63_371	KT886800	Alternaria ethzedia	98%	Alternaria ethzedia	Ascomycota;	phytopathogen

AirGrainH2H2ITS_MID_64_146	KT886801	Sporobolomyces roseus	97%	Sporobolomyces roseus	Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; Lewia. Basidiomycota; Pucciniomycotina;Cystobasidiomycetes; Erythrobasidiales; Erythrobasidiaceae;Sporobolomyces.	biocontrol of plant disease
AirGrainH2H2ITS_MID_68_028	KT886802	Alternaria infectoria	99%	Alternaria infectoria	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; Lewia.	phytopathogen
AirGrainH2H2ITS_MID_68_286	KT886803	uncultured fungus	98%	uncultured fungus		
AirGrainH2H2ITS_MID_7_018	KT886804	Davidiella tassiana (Cladosporium herbarum)	100%	Cladosporium herbarum	Ascomycota; Pezizomycotina;Dothideomycetes; Dothideomycetidae; Capnodiales; Davidiellaceae; mitosporic Davidiellaceae; Cladosporium.	phytopathogen
AirGrainH2H2ITS_MID_70_193	KT886805	Fusarium equiseti	97%	Fusarium equiseti	Ascomycota; Pezizomycotina;Sordariomycetes; Hypocreomycetidae; Hypocreales; mitosporic Hypocreales; Fusarium.	phytopathogen
AirGrainH2H2ITS_MID_70_215	KT886806	Penicillium sp. CID1245	99%	Penicillium sp.	Ascomycota; Pezizomycotina;Eurotiomycetes; Eurotiomycetidae; Eurotiales; Trichocomaceae;mitosporic Trichocomaceae; Penicillium.	saprotroph
AirGrainH2H2ITS_MID_70_243	KT886807	uncultured fungus	93%	uncultured fungus		
AirGrainH2H2ITS_MID_71_114	KT886808	Fusarium poae	100%	Fusarium poae	Ascomycota; Pezizomycotina;Sordariomycetes; Hypocreomycetidae; Hypocreales; mitosporic Hypocreales; Fusarium.	phytopathogen
AirGrainH2H2ITS_MID_79_618	KT886809	Cladosporium cucumerinum /Cladosporium cladosporioides	97%	Cladosporium sp.	Ascomycota; Pezizomycotina;Dothideomycetes; Dothideomycetidae; Capnodiales; Davidiellaceae; mitosporic Davidiellaceae;	phytopathogen

AirGrainHNNH2ITS_MID_87_411	KT886810	uncultured fungus	98%	uncultured fungus	Cladosporium.	
AirGrainHNNH2ITS_MID_91_256	KT886811	uncultured fungus	100%	uncultured fungus		
AirGrainHNNH2ITS_MID_91_366	KT886812	uncultured fungus	94%	uncultured fungus		
AirGrainHNNH3ITS2_MID_1_304	KT886813	uncultured fungus	98%	uncultured fungus		
AirGrainHNNH3ITS2_MID_1_362	KT886814	uncultured fungus	98%	uncultured fungus		
AirGrainHNNH3ITS2_MID_10_0033	KT886815	Chalastospora gossypii	96%	Chalastospora sp.	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Pleosporaceae;mitosporic Pleosporales; Chalastospora.	phytopathogen
AirGrainHNNH3ITS2_MID_10_0182	KT886816	Fusarium poae	100%	Fusarium poae	Ascomycota; Pezizomycotina;Sordariomycetes; Hypocreomycetidae; Hypocreales; mitosporic Hypocreales; Fusarium.	phytopathogen
AirGrainHNNH3ITS2_MID_10_0836	KT886817	Gibberella avenacea	92%	Gibberella sp.	Ascomycota; Pezizomycotina;Sordariomycetes; Hypocreomycetidae; Hypocreales; Nectriaceae;Gibberella.	phytopathogen
AirGrainHNNH3ITS2_MID_10_1105	KT886818	Alternaria ethzedia	99%	Alternaria ethzedia	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; Lewia.	phytopathogen
AirGrainHNNH3ITS2_MID_11_0273	KT886819	Didymella exitialis	97%	Didymella exitialis	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Didymellaceae; Didymella.	phytopathogen
AirGrainHNNH3ITS2_MID_11_0664	KT886820	uncultured fungus	93%	uncultured fungus		
AirGrainHNNH3ITS2_MID_11_0887	KT886821	Alternaria ethzedia	97%	Alternaria ethzedia	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; Lewia.	phytopathogen
AirGrainHNNH3ITS2_MID_135_078	KT886822	Capronia semiimmersa (Phialophora americana)	100%	Capronia semiimmersa	Ascomycota; Pezizomycotina;Eurotiomycetes; Chaetothyriomycetidae;	saprotroph

AirGrainH3ITS2_MID_135_353	KT886823	Alternaria infectoria	98%	Alternaria infectoria	Chaetothyriales;Herpotrichiellaceae; Capronia. Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; Lewia.	phytopathogen
AirGrainH3ITS2_MID_140_062	KT886824	Alternaria infectoria	100%	Alternaria infectoria	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; Lewia.	phytopathogen
AirGrainH3ITS2_MID_140_514	KT886825	Alternaria ethzedia	97%	Alternaria ethzedia	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; Lewia.	phytopathogen
AirGrainH3ITS2_MID_141_248	KT886826	uncultured fungus	99%	uncultured fungus		
AirGrainH3ITS2_MID_143_124	KT886827	uncultured Didymella	98%	uncultured Didymella	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Didymellaceae; Didymella.	
AirGrainH3ITS2_MID_143_168	KT886828	Alternaria infectoria	97%	Alternaria infectoria	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; Lewia.	phytopathogen
AirGrainH3ITS2_MID_146_428	KT886829	Alternaria conjuncta	98%	Alternaria conjuncta	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; mitosporic Pleosporaceae; Alternaria;	phytopathogen
AirGrainH3ITS2_MID_149_087	KT886830	uncultured Ascomycota	100%	uncultured Ascomycota		
AirGrainH3ITS2_MID_149_107	KT886831	uncultured fungus	100%	uncultured fungus		
AirGrainH3ITS2_MID_149_452	KT886832	Microdochium sp. 00019	99%	Microdochium sp. 00019	Ascomycota; Pezizomycotina;Sordariomycetes; Xylariomycetidae; Xylariales; mitosporic Xylariales; Microdochium.	phytopathogen

AirGrainH3ITS2_MID_150_138	KT886833	fungal sp. FL-2010d	98%	uncultured fungus		
AirGrainH3ITS2_MID_150_499	KT886834	Chalastospora cetera	98%	Chalastospora cetera	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Pleosporaceae;mitosporic Pleosporales; Chalastospora.	
AirGrainH3ITS2_MID_151_557	KT886835	uncultured fungus	100%	uncultured fungus		
AirGrainH3ITS2_MID_153_120	KT886836	Chalastospora gossypii	94%	Chalastospora sp.	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae; Pleosporaceae;mitosporic Pleosporales; Chalastospora.	phytopathogen
AirGrainH3ITS2_MID_17_161	KT886837	Alternaria ethzedia	96%	Alternaria sp.	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; Lewia.	phytopathogen
AirGrainH3ITS2_MID_2_459	KT886838	uncultured Cryptococcus	97%	uncultured Cryptococcus	Basidiomycota; Agaricomycotina;Tremellomycetes; Filobasidiales; mitosporic Filobasidiales;	
AirGrainH3ITS2_MID_23_054	KT886839	uncultured fungus	96%	uncultured fungus		
AirGrainH3ITS2_MID_30_313	KT886840	Alternaria ethzedia	99%	Alternaria ethzedia	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; Lewia.	phytopathogen
AirGrainH3ITS2_MID_35_306	KT886841	Alternaria conjuncta	98%	Alternaria conjuncta	Ascomycota; Pezizomycotina;Dothideomycetes; Pleosporomycetidae; Pleosporales; Pleosporineae;Pleosporaceae; mitosporic Pleosporaceae; Alternaria;	phytopathogen

Table S6. Frequency of the OTUs with at least two reads in aerosol and grain dust samples depending on the farming system.

In bold the known allergenic or toxigenic species.

OTU identifiant	Genbank accession numbers	Species name	Aerosols sample, %			Grain Sample, %		
			Organic	Extensive	Conventional	Organic	Extensive	Conventional
AirGrainHNNH1ITS_MID_1_002	KT886526	Passalora robiniae	100.0	100.0	100.0	100.0	100.0	100.0
AirGrainHNNH1ITS_MID_1_009	KT886531	Lewia (Alternaria) ethzedia	100.0	100.0	100.0	100.0	100.0	100.0
AirGrainHNNH1ITS_MID_1_012	KT886532	Epicoccum nigrum	100.0	100.0	100.0	100.0	100.0	100.0
AirGrainHNNH1ITS_MID_1_019	KT886536	Cryptococcus victoriae	100.0	94.4	98.1	100.0	100.0	100.0
AirGrainHNNH1ITS_MID_1_004	KT886527	Cladosporium cladosporioides	100.0	100.0	98.1	100.0	100.0	98.6
AirGrainHNNH1ITS_MID_1_084	KT886541	Didymella exitialis	100.0	100.0	83.0	100.0	100.0	97.1
AirGrainHNNH1ITS_MID_1_014	KT886534	Alternaria alternata	100.0	83.3	84.9	87.5	96.3	94.2
AirGrainHNNH1ITS_MID_1_039	KT886538	uncultured Cryptococcus	50.0	83.3	64.2	100.0	100.0	91.3
AirGrainHNNH1ITS_MID_102_017	KT886562	Fusarium poae	0.0	50.0	43.4	75.0	81.5	91.3
AirGrainHNNH2ITS_MID_117_261	KT886761	Lewia (Alternaria) infectoria	62.5	61.1	52.8	87.5	88.9	91.3
AirGrainHNNH1ITS_MID_1_006	KT886529	Sporobolomyces roseus	75.0	66.7	81.1	100.0	74.1	89.9
AirGrainHNNH1ITS_MID_1_013	KT886533	Fusarium graminearum	0.0	61.1	50.9	62.5	88.9	89.9
AirGrainHNNH1ITS_MID_101_012	KT886557	Gibberella sp.	25.0	55.6	34.0	62.5	77.8	84.1
AirGrainHNNH1ITS_MID_1_334	KT886549	Mycosphaerella graminicola	25.0	94.4	47.2	25.0	88.9	75.4
AirGrainHNNH1ITS_MID_101_019	KT886558	Microdochium nivale	50.0	88.9	64.2	37.5	70.4	68.1
AirGrainHNNH1ITS_MID_1_008	KT886530	Aureobasidium pullulans	25.0	61.1	41.5	87.5	74.1	59.4
AirGrainHNNH1ITS_MID_102_157	KT886568	Sporobolomyces roseus	25.0	38.9	32.1	50.0	40.7	52.2
AirGrainHNNH1ITS_MID_1_016	KT886535	Cryptococcus wieringae	62.5	50.0	41.5	87.5	63.0	47.8
AirGrainHNNH1ITS_MID_103_206	KT886574	Cladosporium sp.	37.5	27.8	37.7	37.5	40.7	43.5
AirGrainHNNH1ITS_MID_1_497	KT886552	Phaeosphaeria nodorum	37.5	33.3	22.6	50.0	77.8	39.1
AirGrainHNNH1ITS_MID_136_233	KT886630	Cryptococcus flavescens	12.5	5.6	15.1	37.5	29.6	37.7
AirGrainHNNH3ITS2_MID_149_107	KT886831	uncultured fungus	25.0	33.3	17.0	50.0	33.3	37.7
AirGrainHNNH1ITS_MID_109_036	KT886590	uncultured Cryptococcus	12.5	16.7	13.2	25.0	22.2	36.2
AirGrainHNNH1ITS_MID_102_069	KT886565	Bulleromyces albus	0.0	16.7	30.2	37.5	22.2	34.8
AirGrainHNNH1ITS_MID_103_168	KT886572	Acremonium sp.	0.0	5.6	7.5	12.5	25.9	34.8
AirGrainHNNH1ITS_MID_132_023	KT886624	Cryptococcus carnescens	0.0	22.2	17.0	37.5	25.9	33.3

OTU identifiant	Genbank accession numbers	Species name	Aerosols sample, %			Grain Sample, %		
			Organic	Extensive	Conventional	Organic	Extensive	Conventional
AirGrainHNNH1ITS_MID_115_224	KT886599	Fusarium pulverosum	12.5	22.2	15.1	12.5	25.9	30.4
AirGrainHNNH3ITS2_MID_146_428	KT886829	Alternaria conjuncta	25.0	27.8	18.9	25.0	44.4	30.4
AirGrainHNNH1ITS_MID_104_065	KT886576	Dioszegia sp	12.5	44.4	34.0	37.5	48.1	29.0
AirGrainHNNH1ITS_MID_1_074	KT886540	Udeniomyces pannonicus	50.0	50.0	28.3	75.0	40.7	27.5
AirGrainHNNH3ITS2_MID_11_0664	KT886820	uncultured fungus	50.0	22.2	20.8	12.5	29.6	27.5
AirGrainHNNH1ITS_MID_101_075	KT886559	Cryptococcus sp.	12.5	27.8	18.9	50.0	40.7	26.1
AirGrainHNNH2ITS_MID_91_366	KT886812	uncultured fungus	37.5	27.8	17.0	50.0	29.6	26.1
AirGrainHNNH1ITS_MID_1_375	KT886550	Cryptococcus macerans	0.0	22.2	20.8	62.5	18.5	23.2
AirGrainHNNH1ITS_MID_106_115	KT886587	Dioszegia fristingensis	37.5	38.9	26.4	12.5	37.0	23.2
AirGrainHNNH1ITS_MID_1_005	KT886528	Sclerotinia sclerotiorum	37.5	16.7	9.4	37.5	11.1	21.7
AirGrainHNNH1ITS_MID_1_131	KT886544	Blumeria graminis	0.0	16.7	9.4	25.0	29.6	21.7
AirGrainHNNH1ITS_MID_105_239	KT886584	Peyronellaea pinodella	12.5	33.3	9.4	12.5	25.9	21.7
AirGrainHNNH1ITS_MID_153_116	KT886664	Lewia sp.	12.5	5.6	9.4	0.0	22.2	20.3
AirGrainHNNH2ITS_MID_91_256	KT886811	uncultured fungus	25.0	11.1	20.8	25.0	14.8	20.3
AirGrainHNNH1ITS_MID_102_086	KT886567	Phaeosphaeria avenaria f. sp. triticae	0.0	11.1	3.8	37.5	59.3	18.8
AirGrainHNNH2ITS_MID_41_328	KT886788	uncultured fungus	0.0	5.6	3.8	12.5	3.7	15.9
AirGrainHNNH1ITS_MID_105_194	KT886583	Cryptococcus oeirensis	12.5	16.7	9.4	12.5	11.1	14.5
AirGrainHNNH1ITS_MID_128_146	KT886623	Pleospora herbarum	0.0	0.0	7.5	12.5	11.1	14.5
AirGrainHNNH1ITS_MID_151_161	KT886658	uncultured Cryptococcus	0.0	5.6	5.7	0.0	11.1	14.5
AirGrainHNNH1ITS_MID_33_177	KT886681	uncultured fungus	25.0	5.6	15.1	0.0	7.4	14.5
AirGrainHNNH1ITS_MID_110_011	KT886592	Bullera globispora	12.5	16.7	7.5	25.0	18.5	13.0
AirGrainHNNH2ITS_MID_41_316	KT886787	uncultured fungus	0.0	11.1	11.3	0.0	25.9	13.0
AirGrainHNNH1ITS_MID_1_045	KT886539	Claviceps purpurea	0.0	0.0	0.0	50.0	11.1	11.6
AirGrainHNNH1ITS_MID_100_002	KT886553	Cryptococcus sp.	0.0	16.7	9.4	12.5	14.8	11.6
AirGrainHNNH1ITS_MID_5_325	KT886707	Rhodotorula glutinis	12.5	5.6	1.9	0.0	0.0	11.6
AirGrainHNNH1ITS_MID_61_142	KT886724	uncultured fungus	12.5	11.1	13.2	12.5	0.0	11.6
AirGrainHNNH2ITS_MID_107_421	KT886748	uncultured Basidiomycota	12.5	22.2	7.5	25.0	18.5	11.6
AirGrainHNNH2ITS_MID_152_810	KT886771	uncultured fungus	0.0	5.6	5.7	12.5	11.1	11.6
AirGrainHNNH2ITS_MID_26_255	KT886778	uncultured fungus	0.0	11.1	1.9	25.0	18.5	11.6

OTU identifiant	Genbank accession numbers	Species name	Aerosols sample, %			Grain Sample, %		
			Organic	Extensive	Conventional	Organic	Extensive	Conventional
AirGrainHNNH1ITS_MID_1_111	KT886543	Dioszegia crocea	12.5	27.8	7.5	25.0	14.8	10.1
AirGrainHNNH1ITS_MID_120_249	KT886604	uncultured Cryptococcus	25.0	33.3	15.1	25.0	7.4	10.1
AirGrainHNNH1ITS_MID_136_224	KT886629	Sporidiobolus sp.	0.0	5.6	1.9	0.0	0.0	10.1
AirGrainHNNH1ITS_MID_76_369	KT886735	uncultured fungus	12.5	0.0	0.0	0.0	0.0	10.1
AirGrainHNNH2ITS_MID_110_077	KT886753	uncultured fungus	12.5	22.2	17.0	0.0	14.8	10.1
AirGrainHNNH2ITS_MID_152_331	KT886770	uncultured fungus	0.0	5.6	9.4	37.5	18.5	10.1
AirGrainHNNH1ITS_MID_144_017	KT886642	uncultured fungus	0.0	5.6	0.0	25.0	0.0	8.7
AirGrainHNNH1ITS_MID_148_226	KT886651	Cryptococcus foliicola	0.0	11.1	5.7	0.0	22.2	8.7
AirGrainHNNH1ITS_MID_151_226	KT886660	uncultured fungus	12.5	0.0	7.5	0.0	0.0	8.7
AirGrainHNNH1ITS_MID_47_938	KT886703	uncultured fungus	12.5	5.6	1.9	0.0	7.4	8.7
AirGrainHNNH1ITS_MID_1_151	KT886546	uncultured fungus	0.0	5.6	1.9	12.5	0.0	7.2
AirGrainHNNH1ITS_MID_103_194	KT886573	uncultured fungus	0.0	5.6	7.5	0.0	11.1	7.2
AirGrainHNNH1ITS_MID_104_215	KT886581	uncultured fungus	0.0	11.1	1.9	0.0	11.1	7.2
AirGrainHNNH1ITS_MID_106_004	KT886585	uncultured fungus	0.0	0.0	0.0	0.0	25.9	7.2
AirGrainHNNH1ITS_MID_142_024	KT886635	Sporobolomyces sp.	12.5	22.2	5.7	25.0	11.1	7.2
AirGrainHNNH3ITS2_MID_149_087	KT886830	uncultured Ascomycota	0.0	5.6	1.9	0.0	7.4	7.2
AirGrainHNNH1ITS_MID_104_180	KT886580	Cryptococcus ater	0.0	5.6	3.8	50.0	3.7	5.8
AirGrainHNNH1ITS_MID_143_185	KT886641	Ramularia collo-cygni	12.5	0.0	1.9	25.0	7.4	5.8
AirGrainHNNH1ITS_MID_151_385	KT886661	Chalastospora ellipsoidea	0.0	0.0	1.9	12.5	3.7	5.8
AirGrainHNNH1ITS_MID_39_046	KT886694	uncultured Basidiomycota	12.5	0.0	1.9	12.5	11.1	5.8
AirGrainHNNH1ITS_MID_74_004	KT886731	uncultured fungus	0.0	0.0	0.0	0.0	3.7	5.8
AirGrainHNNH2ITS_MID_45_180	KT886790	uncultured fungus	0.0	0.0	1.9	0.0	0.0	5.8
AirGrainHNNH2ITS_MID_70_243	KT886807	uncultured fungus	0.0	5.6	0.0	0.0	0.0	5.8
AirGrainHNNH3ITS2_MID_23_054	KT886839	uncultured fungus	12.5	5.6	7.5	25.0	0.0	5.8
AirGrainHNNH1ITS_MID_103_145	KT886571	uncultured fungus	0.0	0.0	0.0	0.0	0.0	4.3
AirGrainHNNH1ITS_MID_123_218	KT886615	uncultured fungus	0.0	11.1	0.0	0.0	0.0	4.3
AirGrainHNNH1ITS_MID_127_230	KT886621	uncultured fungus	12.5	0.0	3.8	12.5	0.0	4.3
AirGrainHNNH1ITS_MID_148_311	KT886653	uncultured fungus	12.5	0.0	0.0	0.0	0.0	4.3
AirGrainHNNH1ITS_MID_150_301	KT886655	uncultured fungus	0.0	5.6	7.5	0.0	3.7	4.3

OTU identifiant	Genbank accession numbers	Species name	Aerosols sample, %			Grain Sample, %		
			Organic	Extensive	Conventional	Organic	Extensive	Conventional
AirGrainHNNH1ITS_MID_22_095	KT886672	Microdochium bolleyi	12.5	0.0	1.9	0.0	0.0	4.3
AirGrainHNNH1ITS_MID_37_387	KT886690	uncultured Ascomycete	0.0	0.0	0.0	12.5	0.0	4.3
AirGrainHNNH1ITS_MID_42_181	KT886698	uncultured fungus	0.0	5.6	1.9	0.0	3.7	4.3
AirGrainHNNH1ITS_MID_43_084	KT886699	Phoma herbarum	0.0	0.0	0.0	25.0	0.0	4.3
AirGrainHNNH1ITS_MID_50_048	KT886709	uncultured Ascomycota	0.0	0.0	0.0	0.0	3.7	4.3
AirGrainHNNH1ITS_MID_74_144	KT886732	uncultured fungus	0.0	0.0	5.7	25.0	14.8	4.3
AirGrainHNNH2ITS_MID_11_296	KT886752	uncultured fungus	12.5	5.6	3.8	12.5	18.5	4.3
AirGrainHNNH3ITS2_MID_10_0836	KT886817	Gibberella avenacea	0.0	0.0	0.0	0.0	0.0	4.3
AirGrainHNNH1ITS_MID_1_278	KT886548	Nigrospora oryzae	12.5	5.6	5.7	37.5	7.4	2.9
AirGrainHNNH1ITS_MID_100_085	KT886554	Filobasidium floriforme	0.0	0.0	3.8	0.0	0.0	2.9
AirGrainHNNH1ITS_MID_100_112	KT886555	uncultured fungus	12.5	5.6	0.0	0.0	0.0	2.9
AirGrainHNNH1ITS_MID_101_093	KT886560	uncultured Ascomycota	0.0	5.6	1.9	0.0	0.0	2.9
AirGrainHNNH1ITS_MID_110_165	KT886593	Pyrenophora sp	0.0	0.0	0.0	0.0	0.0	2.9
AirGrainHNNH1ITS_MID_122_011	KT886608	Sporidiobolus pararoseus	0.0	0.0	0.0	0.0	0.0	2.9
AirGrainHNNH1ITS_MID_123_032	KT886614	uncultured fungus	0.0	0.0	3.8	0.0	3.7	2.9
AirGrainHNNH1ITS_MID_127_066	KT886619	Microdochium nivale	0.0	5.6	7.5	0.0	3.7	2.9
AirGrainHNNH1ITS_MID_142_212	KT886636	uncultured Ascomycota	0.0	5.6	0.0	0.0	3.7	2.9
AirGrainHNNH1ITS_MID_30_068	KT886676	uncultured fungus	0.0	0.0	3.8	0.0	0.0	2.9
AirGrainHNNH1ITS_MID_33_169	KT886680	Udeniomyces pyricola	0.0	5.6	0.0	25.0	3.7	2.9
AirGrainHNNH1ITS_MID_35_282	KT886687	Plectosphaerella cucumerina	0.0	0.0	0.0	0.0	0.0	2.9
AirGrainHNNH1ITS_MID_38_073	KT886692	Phoma exigua	12.5	0.0	0.0	0.0	0.0	2.9
AirGrainHNNH1ITS_MID_48_284	KT886705	uncultured Phaeosphaeria	0.0	0.0	0.0	0.0	0.0	2.9
AirGrainHNNH1ITS_MID_6_397	KT886721	uncultured Cryptococcus	0.0	0.0	3.8	0.0	0.0	2.9
AirGrainHNNH1ITS_MID_79_046	KT886740	uncultured Basidiomycota	0.0	5.6	0.0	0.0	0.0	2.9
AirGrainHNNH2ITS_MID_108_033	KT886749	uncultured Cryptococcus	0.0	0.0	0.0	0.0	3.7	2.9
AirGrainHNNH2ITS_MID_108_206	KT886750	uncultured Basidiomycota	0.0	5.6	0.0	0.0	0.0	2.9
AirGrainHNNH2ITS_MID_114_260	KT886758	Sporobolomyces sp.	0.0	0.0	0.0	12.5	0.0	2.9
AirGrainHNNH2ITS_MID_130_127	KT886766	Sporidiobolales sp.	0.0	0.0	0.0	0.0	0.0	2.9
AirGrainHNNH2ITS_MID_152_875	KT886772	uncultured fungus	0.0	0.0	0.0	12.5	3.7	2.9

OTU identifiant	Genbank accession numbers	Species name	Aerosols sample, %			Grain Sample, %		
			Organic	Extensive	Conventional	Organic	Extensive	Conventional
AirGrainH2H2ITS_MID_34_242	KT886781	uncultured fungus	0.0	0.0	0.0	0.0	0.0	2.9
AirGrainH2H2ITS_MID_4_394	KT886785	uncultured fungus	0.0	11.1	3.8	0.0	3.7	2.9
AirGrainH2H2ITS_MID_41_125	KT886786	uncultured Ascomycota	0.0	0.0	0.0	0.0	0.0	2.9
AirGrainH2H2ITS_MID_61_050	KT886795	uncultured fungus	12.5	0.0	1.9	37.5	3.7	2.9
AirGrainH2H2ITS_MID_62_203	KT886796	uncultured fungus	0.0	0.0	7.5	0.0	7.4	2.9
AirGrainH2H2ITS_MID_63_072	KT886798	uncultured Cryptococcus	0.0	0.0	0.0	0.0	0.0	2.9
AirGrainH2H2ITS_MID_7_018	KT886804	Cladosporium herbarum	0.0	0.0	0.0	12.5	0.0	2.9
AirGrainH2H2ITS_MID_70_193	KT886805	Fusarium equiseti	0.0	0.0	0.0	0.0	7.4	2.9
AirGrainH2H2ITS_MID_79_618	KT886809	Cladosporium cucumerinum	0.0	0.0	0.0	0.0	0.0	2.9
AirGrainH2H3ITS2_MID_1_304	KT886813	uncultured fungus	0.0	0.0	0.0	0.0	0.0	2.9
AirGrainH2H3ITS2_MID_1_362	KT886814	uncultured fungus	0.0	0.0	0.0	0.0	0.0	2.9
AirGrainH2H3ITS2_MID_150_499	KT886834	Chalastospora cetera	0.0	0.0	0.0	0.0	0.0	2.9
AirGrainH1H1ITS_MID_1_144	KT886545	uncultured fungus	0.0	0.0	0.0	0.0	0.0	1.4
AirGrainH1H1ITS_MID_1_480	KT886551	uncultured Ascomycota	0.0	0.0	0.0	0.0	3.7	1.4
AirGrainH1H1ITS_MID_102_056	KT886564	uncultured Basidiomycota	0.0	0.0	0.0	0.0	3.7	1.4
AirGrainH1H1ITS_MID_103_021	KT886570	uncultured fungus	0.0	5.6	0.0	0.0	0.0	1.4
AirGrainH1H1ITS_MID_103_246	KT886575	uncultured Cryptococcus	0.0	5.6	1.9	0.0	0.0	1.4
AirGrainH1H1ITS_MID_106_112	KT886586	uncultured fungus	0.0	0.0	3.8	0.0	0.0	1.4
AirGrainH1H1ITS_MID_107_037	KT886588	uncultured Ascomycota	0.0	5.6	1.9	0.0	7.4	1.4
AirGrainH1H1ITS_MID_108_159	KT886589	uncultured fungus	0.0	0.0	1.9	0.0	0.0	1.4
AirGrainH1H1ITS_MID_114_047	KT886595	uncultured fungus	0.0	0.0	0.0	0.0	3.7	1.4
AirGrainH1H1ITS_MID_114_078	KT886596	Alternaria brassicae	0.0	0.0	3.8	0.0	0.0	1.4
AirGrainH1H1ITS_MID_116_024	KT886601	uncultured fungus	0.0	0.0	0.0	0.0	3.7	1.4
AirGrainH1H1ITS_MID_121_039	KT886606	Choiromyces venosus	0.0	0.0	1.9	0.0	0.0	1.4
AirGrainH1H1ITS_MID_122_185	KT886610	uncultured Cryptococcus	0.0	5.6	3.8	0.0	0.0	1.4
AirGrainH1H1ITS_MID_123_028	KT886612	uncultured fungus	0.0	0.0	1.9	0.0	0.0	1.4
AirGrainH1H1ITS_MID_123_286	KT886616	uncultured fungus	0.0	0.0	0.0	0.0	0.0	1.4
AirGrainH1H1ITS_MID_123_288	KT886617	uncultured fungus	0.0	0.0	1.9	0.0	0.0	1.4
AirGrainH1H1ITS_MID_136_214	KT886628	Acremonium sp	0.0	0.0	3.8	0.0	0.0	1.4

OTU identifiant	Genbank accession numbers	Species name	Aerosols sample, %			Grain Sample, %		
			Organic	Extensive	Conventional	Organic	Extensive	Conventional
AirGrainHNNH1ITS_MID_145_019	KT886643	uncultured fungus	0.0	0.0	0.0	0.0	7.4	1.4
AirGrainHNNH1ITS_MID_147_516	KT886649	uncultured fungus	0.0	0.0	1.9	0.0	0.0	1.4
AirGrainHNNH1ITS_MID_148_046	KT886650	uncultured fungus	0.0	0.0	1.9	12.5	0.0	1.4
AirGrainHNNH1ITS_MID_17_125	KT886666	uncultured fungus	0.0	0.0	0.0	0.0	7.4	1.4
AirGrainHNNH1ITS_MID_2_039	KT886668	uncultured fungus	0.0	5.6	1.9	0.0	0.0	1.4
AirGrainHNNH1ITS_MID_2_099	KT886669	Microbotryum duriaeanum	0.0	0.0	1.9	0.0	0.0	1.4
AirGrainHNNH1ITS_MID_26_058	KT886673	uncultured fungus	12.5	0.0	0.0	12.5	3.7	1.4
AirGrainHNNH1ITS_MID_30_136	KT886677	uncultured fungus	12.5	0.0	3.8	0.0	0.0	1.4
AirGrainHNNH1ITS_MID_32_319	KT886679	uncultured fungus	0.0	0.0	0.0	12.5	0.0	1.4
AirGrainHNNH1ITS_MID_35_075	KT886685	uncultured fungus	0.0	0.0	0.0	0.0	7.4	1.4
AirGrainHNNH1ITS_MID_5_537	KT886708	uncultured fungus	0.0	0.0	3.8	0.0	0.0	1.4
AirGrainHNNH1ITS_MID_58_025	KT886718	uncultured Tremellomycetes	0.0	0.0	1.9	12.5	0.0	1.4
AirGrainHNNH1ITS_MID_65_093	KT886726	uncultured fungus	0.0	0.0	3.8	0.0	3.7	1.4
AirGrainHNNH1ITS_MID_77_207	KT886737	uncultured Cryptococcus	0.0	5.6	0.0	0.0	0.0	1.4
AirGrainHNNH1ITS_MID_91_724	KT886744	uncultured fungus	0.0	0.0	5.7	0.0	0.0	1.4
AirGrainHNNH2ITS_MID_114_131	KT886757	uncultured Pleosporales	0.0	0.0	0.0	0.0	3.7	1.4
AirGrainHNNH2ITS_MID_116_298	KT886760	uncultured fungus	0.0	0.0	0.0	12.5	0.0	1.4
AirGrainHNNH2ITS_MID_152_063	KT886768	Rhodotorula sp.	0.0	0.0	0.0	25.0	7.4	1.4
AirGrainHNNH2ITS_MID_19_120	KT886774	Phaeosphaeria pontiformis	0.0	0.0	0.0	0.0	0.0	1.4
AirGrainHNNH2ITS_MID_32_508	KT886780	uncultured fungus	12.5	0.0	0.0	0.0	0.0	1.4
AirGrainHNNH2ITS_MID_36_275	KT886782	Stagonospora sp.	0.0	0.0	0.0	12.5	0.0	1.4
AirGrainHNNH2ITS_MID_39_391	KT886784	uncultured fungus	0.0	0.0	0.0	0.0	3.7	1.4
AirGrainHNNH3ITS2_MID_151_557	KT886835	uncultured fungus	0.0	0.0	0.0	0.0	0.0	1.4
AirGrainHNNH1ITS_MID_1_107	KT886542	uncultured fungus	0.0	11.1	0.0	0.0	0.0	0.0
AirGrainHNNH1ITS_MID_1_269	KT886547	uncultured fungus	0.0	5.6	0.0	12.5	0.0	0.0
AirGrainHNNH1ITS_MID_100_181	KT886556	uncultured endophytic fungus	0.0	0.0	1.9	0.0	0.0	0.0
AirGrainHNNH1ITS_MID_101_132	KT886561	uncultured Didymella	0.0	0.0	0.0	0.0	7.4	0.0
AirGrainHNNH1ITS_MID_102_032	KT886563	uncultured fungus	12.5	0.0	3.8	0.0	0.0	0.0
AirGrainHNNH1ITS_MID_104_169	KT886578	uncultured fungus	0.0	5.6	0.0	0.0	3.7	0.0

OTU identifiant	Genbank accession numbers	Species name	Aerosols sample, %			Grain Sample, %		
			Organic	Extensive	Conventional	Organic	Extensive	Conventional
AirGrainHNNH1ITS_MID_104_175	KT886579	uncultured fungus	12.5	0.0	0.0	0.0	0.0	0.0
AirGrainHNNH1ITS_MID_109_094	KT886591	uncultured Cryptococcus	0.0	0.0	3.8	0.0	0.0	0.0
AirGrainHNNH1ITS_MID_113_031	KT886594	uncultured fungus	0.0	0.0	0.0	0.0	3.7	0.0
AirGrainHNNH1ITS_MID_121_010	KT886605	Leptosphaerulina sp.	0.0	0.0	5.7	0.0	0.0	0.0
AirGrainHNNH1ITS_MID_135_048	KT886626	uncultured fungus	0.0	5.6	0.0	0.0	3.7	0.0
AirGrainHNNH1ITS_MID_136_021	KT886627	uncultured fungus	0.0	5.6	1.9	0.0	3.7	0.0
AirGrainHNNH1ITS_MID_137_049	KT886631	uncultured Basidiomycota	0.0	5.6	0.0	0.0	3.7	0.0
AirGrainHNNH1ITS_MID_141_178	KT886634	uncultured fungus	0.0	0.0	0.0	0.0	3.7	0.0
AirGrainHNNH1ITS_MID_143_009	KT886638	Capronia semiimmersa	0.0	0.0	1.9	12.5	0.0	0.0
AirGrainHNNH1ITS_MID_143_018	KT886639	Eurotium amstelodami	0.0	0.0	1.9	12.5	0.0	0.0
AirGrainHNNH1ITS_MID_34_112	KT886683	uncultured fungus	0.0	0.0	0.0	0.0	14.8	0.0
AirGrainHNNH1ITS_MID_48_184	KT886704	Drechslera avenae	12.5	0.0	0.0	12.5	0.0	0.0
AirGrainHNNH1ITS_MID_50_470	KT886710	Lophodermium actinothyrium	0.0	0.0	0.0	0.0	3.7	0.0
AirGrainHNNH1ITS_MID_50_851	KT886711	Coniothyrium sp.	12.5	0.0	0.0	0.0	3.7	0.0
AirGrainHNNH1ITS_MID_55_126	KT886716	Hypocreales sp.	12.5	0.0	0.0	0.0	0.0	0.0
AirGrainHNNH1ITS_MID_74_293	KT886734	Acremonium rutilum	12.5	0.0	0.0	0.0	3.7	0.0
AirGrainHNNH1ITS_MID_78_106	KT886738	uncultured Ascomycota	0.0	0.0	0.0	0.0	7.4	0.0
AirGrainHNNH2ITS_MID_104_154	KT886747	uncultured Taphrina	0.0	0.0	0.0	0.0	7.4	0.0
AirGrainHNNH2ITS_MID_70_215	KT886806	Penicillium sp.	0.0	0.0	0.0	0.0	3.7	0.0
AirGrainHNNH3ITS2_MID_2_459	KT886838	uncultured Cryptococcus	0.0	5.6	0.0	0.0	7.4	0.0