



LIFE 15/CCA/ES/00125

Action D1: "Monitoring & Project performance indicators"

Title: Mycorrhiza infestation report Part II

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SECOND REPORT FOR GREENLINK LIFE PROJECT

BACKGROUND

After an initial assessment of soil microbial diversity, a mix of different symbiotic organisms and amendments were applied to plot soils. Specifically, a product named as "Biopads" from Plant Health Cure was applied, which contained the following components:

Endomycorrhiza (30.2 spores per sachet):

Rhizophagus intraradices

Entrophospora colombiana

Glomus etunicatum

Glomus clarum

Ectomycorrhiza (390 000 spores per sachet)

Pisolithus tinctorium (syn. *P. arhizus*)

Rhizobacteria (710 000 CFU per sachet)

Bacillus amyloquefaciens

Bacillus licheniformis

Bacillus pumilus

Bacillus subtilis

Paenibacillus azotofixans

Azotobacter chroococcum

Fulvic/humic acids 8%

The main expected result on soil microbiota was a greater abundance of symbiotic fungi and bacteria, with respect to baseline results described in the first report, as evaluated by metagenomic analyses.



METHODS

1.- Sample preparation, DNA extraction and high throughput next generation sequencing. Number of samples: 16 (Table 1). In the previous initial study, 18 samples were analysed, but no samples from Italy were received for the final assessment.

Table 1. Samples from GreenLink microbiome study received for evaluation of results, according to study site and plot

Site	Plot
Almería	Almería
Ptolomais	Next to grey land
Ptolomais	Above black land
Ptolomais	Unit 5
Ptolomais	Grey land
Ptolomais	Sloped area
Ptolomais	Black land upper
Ptolomais	Next to Sensoterra
Ptolomais	Black land down
Ptolomais	Upper plot
Ptolomais	Sensoterra
El Bruc	Subzona campo
El Bruc	Subzona bosque
El Bruc	CT
El Bruc	CTF
Canarias	Gran Canaria
Italy	Fico Cocoon
Italy	Fico Controllo

Soil samples are received in the lab and left to dry at room temperature. Once dry, they are sieved through a 1 mm wire mesh and homogenised. A small sample of homogenised soil is used for total DNA extraction with a soil DNA extraction kit. Total DNA contains DNA fragments from all soil-inhabiting microorganisms, proportional to their abundance in the sample. The next step consists in mass-sequencing a very specific part of each DNA fragment, that corresponding to the Internal Transcribed Sequence of the ribosomal genes. This DNA region is used as a biological barcode, in the sense that we can obtain phylogenetic information from it, i.e. it helps to classify species.

2.- Genetic identification of organisms (Fungi: mycorrhizal, saprotrophic and pathogenic, Bacteria) in soil samples, including the Frequency of each species.



In this step, biological information contained in DNA is translated into *in silico* information in a computer. By using bioinformatic tools, the sequence of nucleic acids of all DNA fragments from a given sample are compared against a public database. This database contains a vast number of references and serves to translate DNA sequences into species names. Furthermore, additional information can be obtained from databases, so for example for fungi, we can retrieve information about their functional guild e.g. mycorrhizal. The final raw result consists in a list of sequences either matched or not to known species and their relative abundance in a given sample.

RESULTS

Both DNA extraction and mass-sequencing were successful in all samples, retrieving a wealth of data which was later processed. All samples contained hundreds of bacterial and fungal species, showing the complexity of microbial life in soils. Data are summarised in Table 2.

Retrieved bacterial species were more abundant than fungi in soil samples. The number of bacterial species per sample commonly ranged from roughly 100 to 400 species and showed roughly the same variance as the number of fungal species which ranged from 37 to 299. Thus, the proportion of fungal to bacterial species was relatively stable, and only minor differences could be detected among partners e.g. Ptolomais samples had a higher share of bacterial species (Figure 1).

Known fungal species could be classified in all samples, by comparing DNA sequences to a public database. Contrary to the results obtained in the first report, the vast majority of fungal species could be classified, with little variation among samples. This time, all samples from a given partner tended to be uniform regarding the proportion of classified species (Figure 2). The great improvement in species classification with respect to the previous report, might be related to increased efforts to feed and curate public databases. Nonetheless, previous concerns also apply as a (relatively) low number of classified species might be found also in very specific habitats, fostering particular microbial taxa.

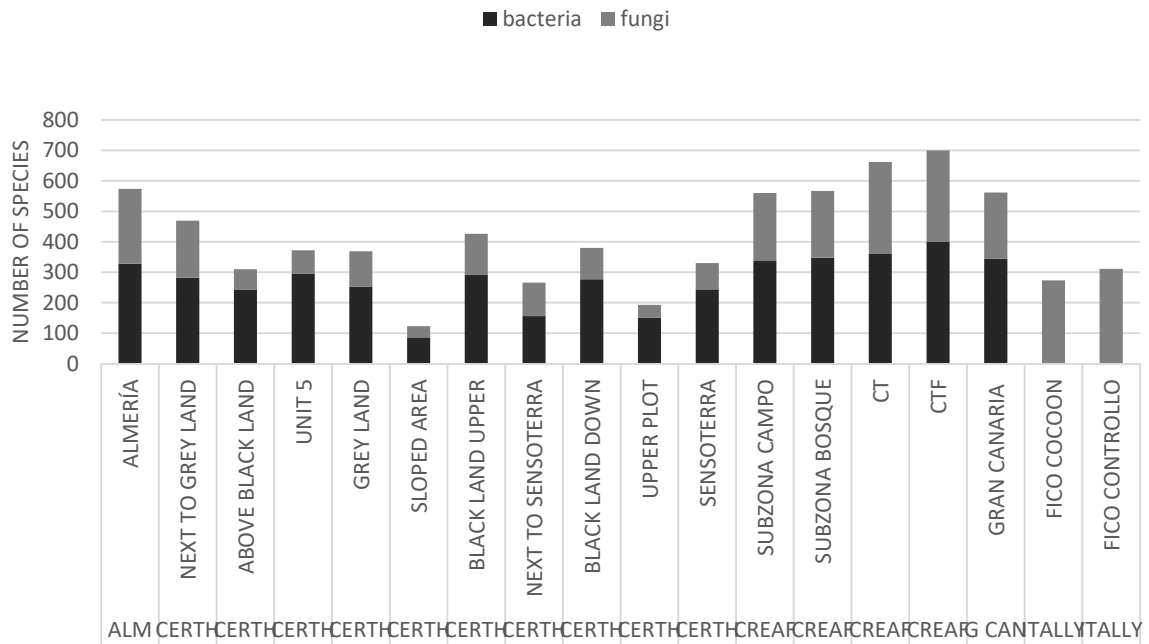


Figure 1. Number of species detected in each sample, classified into bacterial or fungal species.

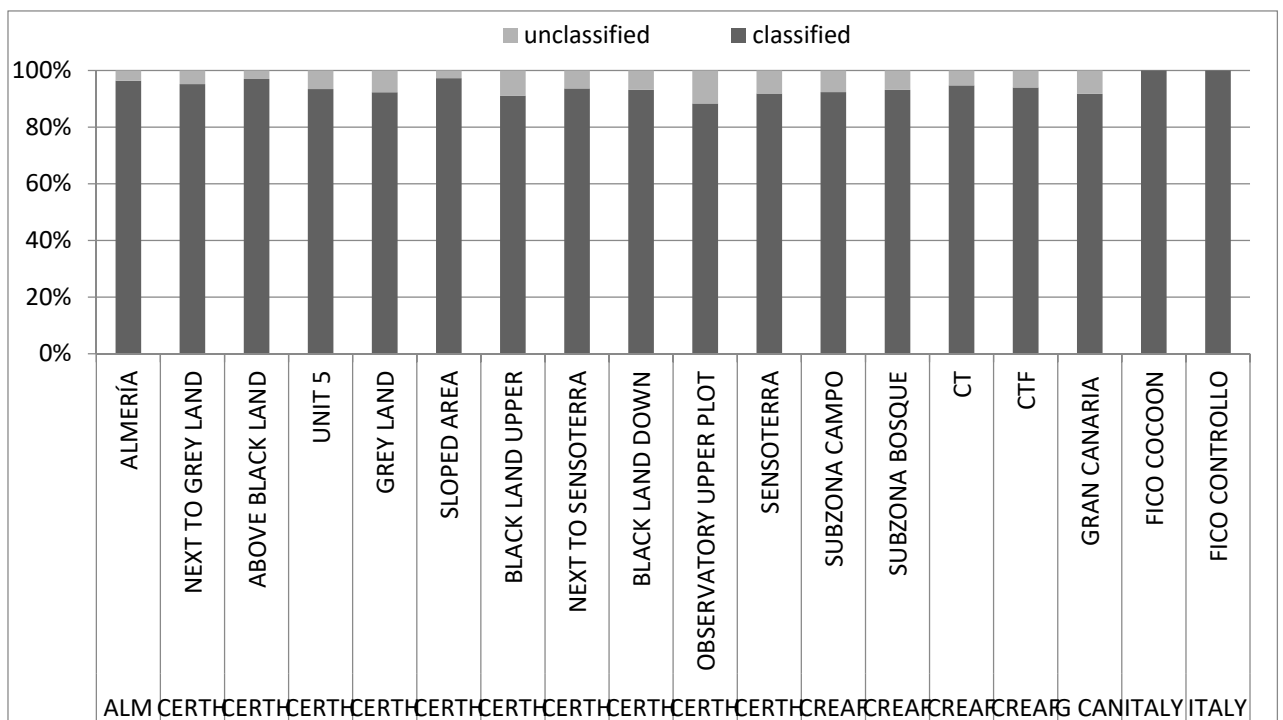


Figure 2. Proportion of classified and unclassified species in each sample.



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Quantitatively, the number of classified fungal species per sample ranged 7.5-fold, from 38 to 286. Variation among samples within partners was also substantial (Figure 3). As in the previous report, pathogens accounted for roughly half of the classified species. This group contains species that have been cited as causing disease in plants or animals in the literature, but pathogenicity might be only facultative, and they might also act as saprotrophs or even symbionts, depending on the species. The proportion of saprotrophic lied between 20 and 40%. Then, saprotrophic-symbiont and purely symbiont species generally accounted for a low proportion of classified species, being absent in a few of them. On the other hand, symbiont species reached above 1/10 in several samples (Figure 4).

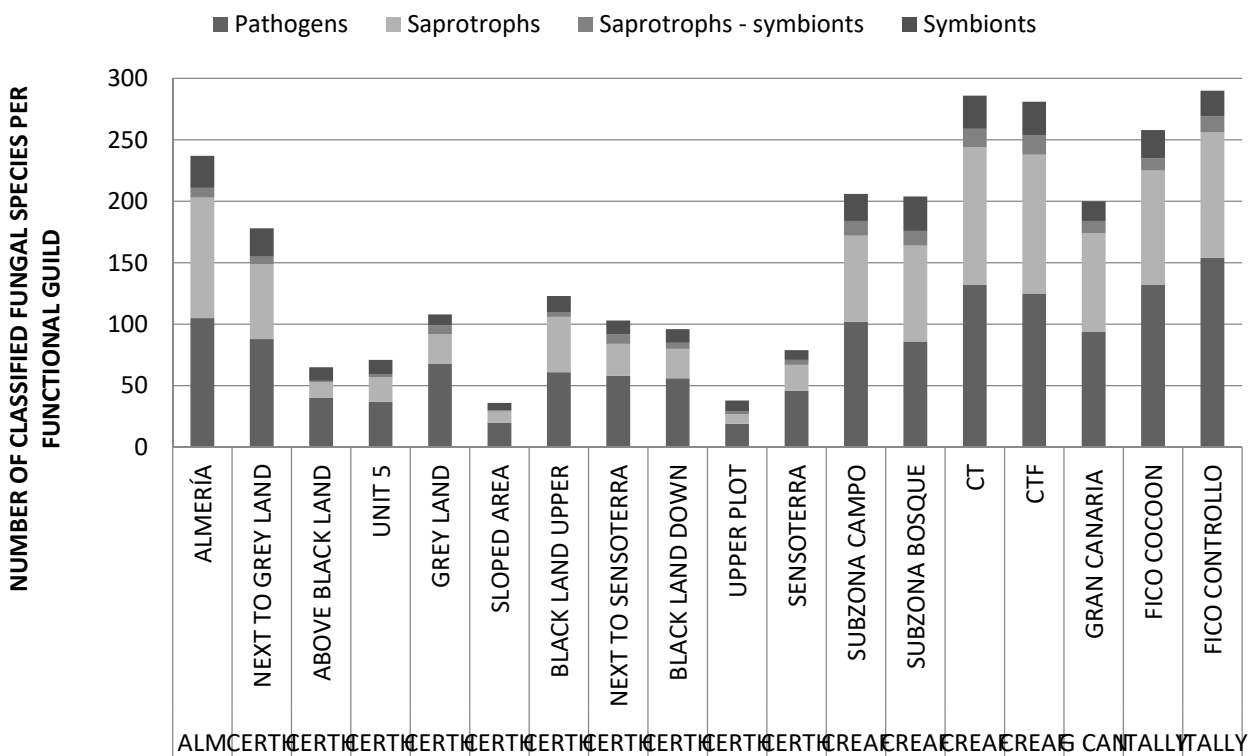


Figure 3. Number of classified species per sample, distributed into functional guilds.

The number of species might not reflect the relative abundance of individuals in the soil, as some species typically dominate over others. This situation can be observed for some samples by comparing relative abundances in Figures 4 and 5. Overall, the number of pathogenic fungal species is not matched with actual abundance of mycelium. Also, for example, in samples "above black land" and "Unit 5" and "above black" from Ptolomais saprotrophs are overrepresented respect to species number.

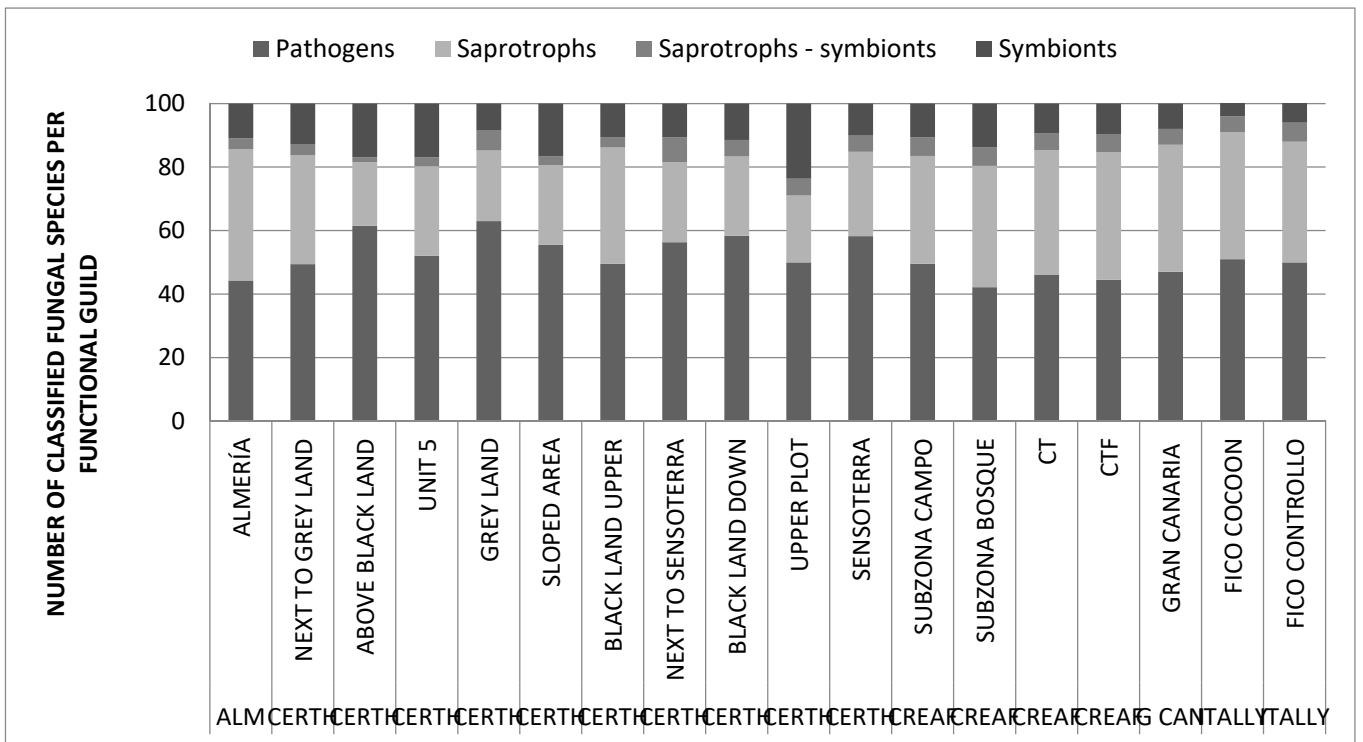


Figure 4. Relative abundance of fungal species per functional guild.

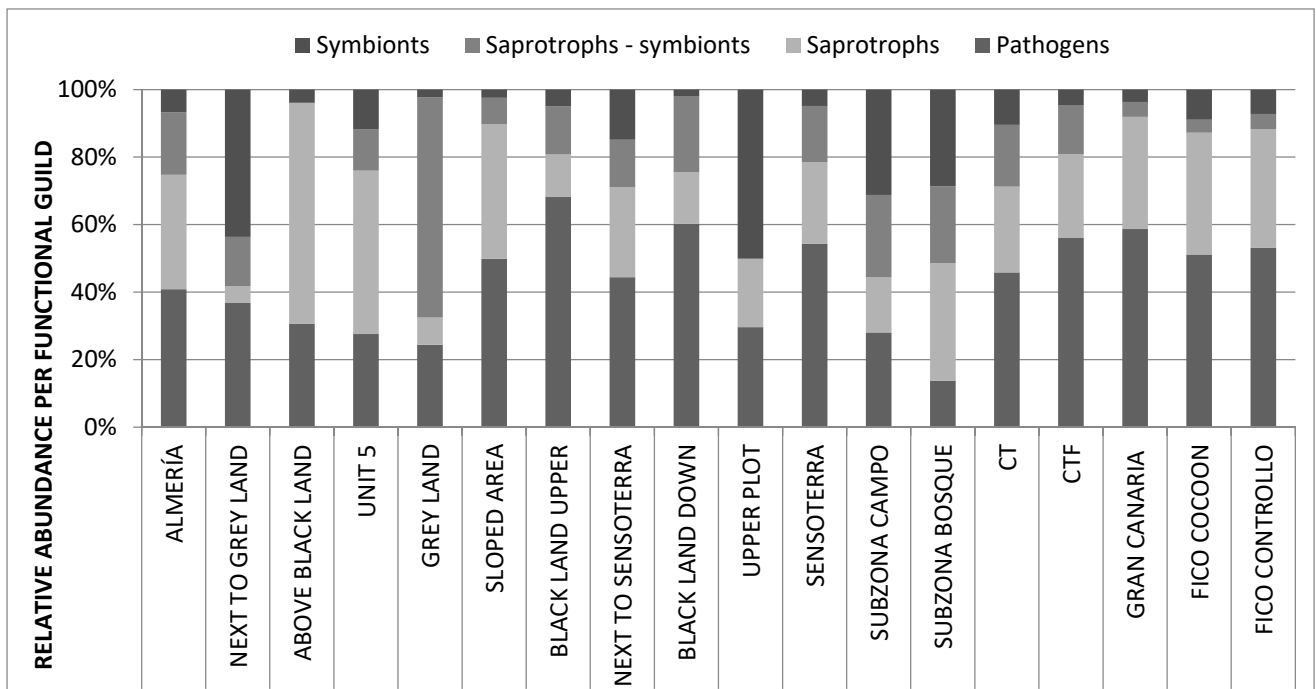


Figure 5. Relative abundance of fungal DNA sequences per functional guild. Fungal DNA sequences are proportional to mycelium abundance in the soil.



Symbiotic fungal and bacterial species

Endomycorrhizal species were retrieved from all samples, even if at low percentages. The observed range varied from 0.01% (PTOLOMAIS Unit 5 and Grey Land) to nearly 1% (PTOLOMAIS Sensoterra), that is, two orders of magnitude. Symbiotic bacteria from g. *Bacillus* and *Paenibacillus* were also present in all samples, except at PTOLOMAIS Sloped area for *Bacillus* and PTOLOMAIS Next to Grey Land, Grey Land, Black land upper, Black land down, and Sensoterra. Percentages ranged from 0% to 10% for *Bacillus* and from 0% to 0.53% for *Paenibacillus*. Finally, *Pisolithus* sequences were retrieved from slightly more than half of the samples, i.e. 10 out of 16, with an extensive range from 0% to 37% (PTOLOMAIS Upper plot).

Comparative study between initial and final results

Referred to fungal species, the number of species detected in the final analysis is lower than in the first assessment (Figure 6). These results are nonetheless leveraged by those obtained by PTOLOMAIS, with the noteworthy exception of the plot "next to grey land". Gran Canaria sample was not included in the graph, as the increase was 7-fold, due to an excessively low number of species detected in the first analysis. The conclusions that can be drawn from these figures are limited. This is because there is a very high number of species with an extremely low frequency e.g. only one sequence retrieved out of tens of thousands, so that depending on very particular conditions during sampling, or even processing substantial noise may appear.

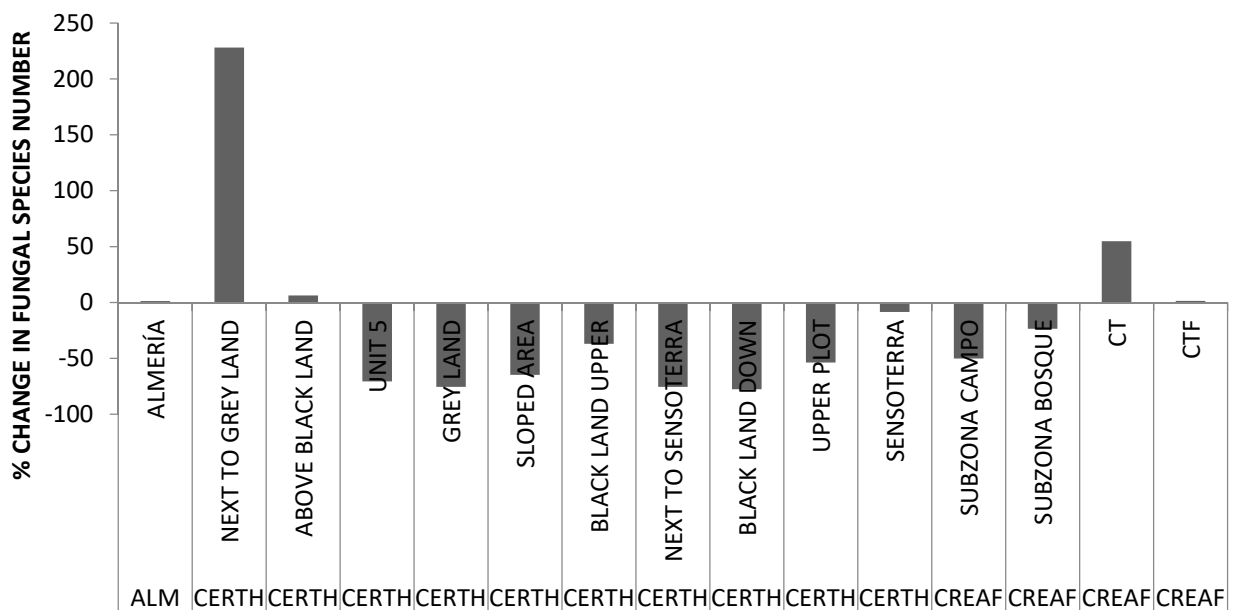


Figure 6. Percent change in number of species from the first to the final assessment.



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A more detailed picture can be obtained by looking at changes in species number by fungal guild (Figure 7). Underlying these figures, there is the assumption that the aforementioned sampling or experimental noise, affects equally all fungal yields. This is however somewhat limited in those guilds where the species number is low, as percent changes with respect to low numbers tend to be greater.

Overall, all guilds tend to follow the same trend, but there are interesting exceptions. For example, the number of symbionts in Almería, upper plot and Sensoterra plots increase, despite the overall number of species either remains constant or slightly decrease. Also, taking a closer look, even if for most of PTOLOMAIS plots the number of species decreases, the number of symbiotic species does so at a lower rate than the other guilds.

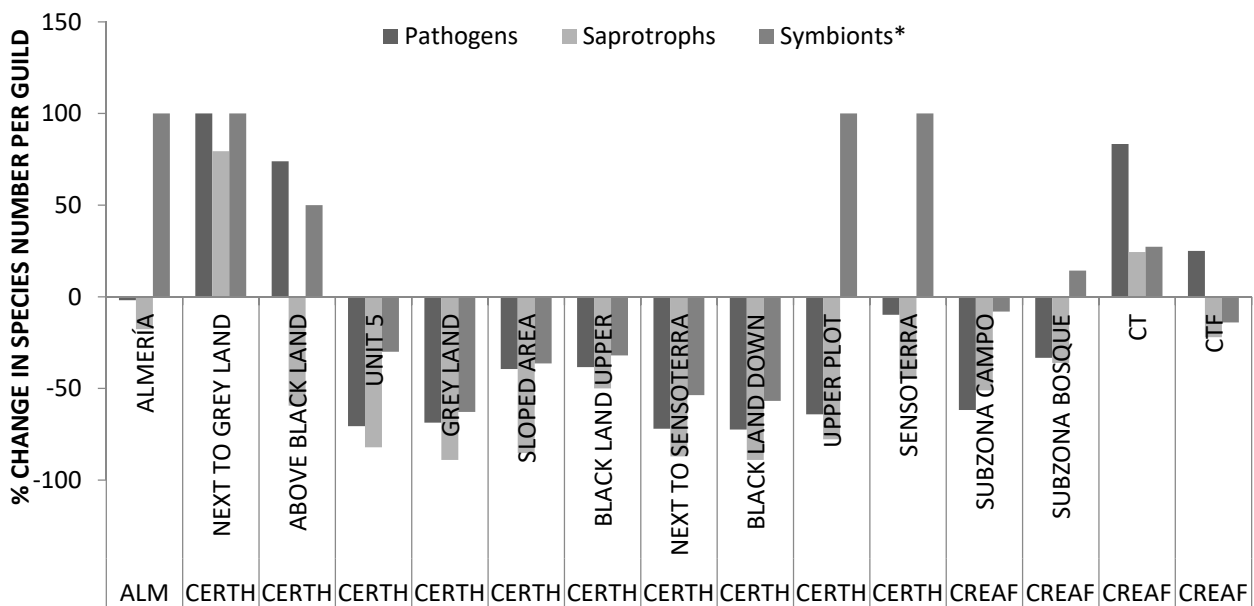


Figure 7. Percent change in number of species per fungal guild from the first to the final assessment. * Symbionts jointly represent saprotroph-symbionts and symbionts. In order to avoid scaling effects, values for "next to grey land" pathogens and symbionts*, and "upper plot" and "Sensoterra" symbionts* have been capped to 100. Actual values are 300, 2800, 175 and 140 respectively.

A more visual representation of the relative increase of the number of symbiotic fungal species relative to other guilds is provided by scatterplots representing the relative share of each species versus each other (Figure 8). Points situated along



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the depicted line, correspond to plots where changes in species frequency by guild were equal. E.g. from the first to the final report, for a given plot a decrease of a number of species might have been observed, but this decrease could affect differentially to the various fungal guilds. Points in the left graph, tend to be placed above the diagonal line, this meaning that there is an overall increase in symbiotic species relative to pathogenic ones. On the other hand, pathogenic species seem to have been retrieved relatively more abundantly than saprophytic ones in the final versus the initial assessment.

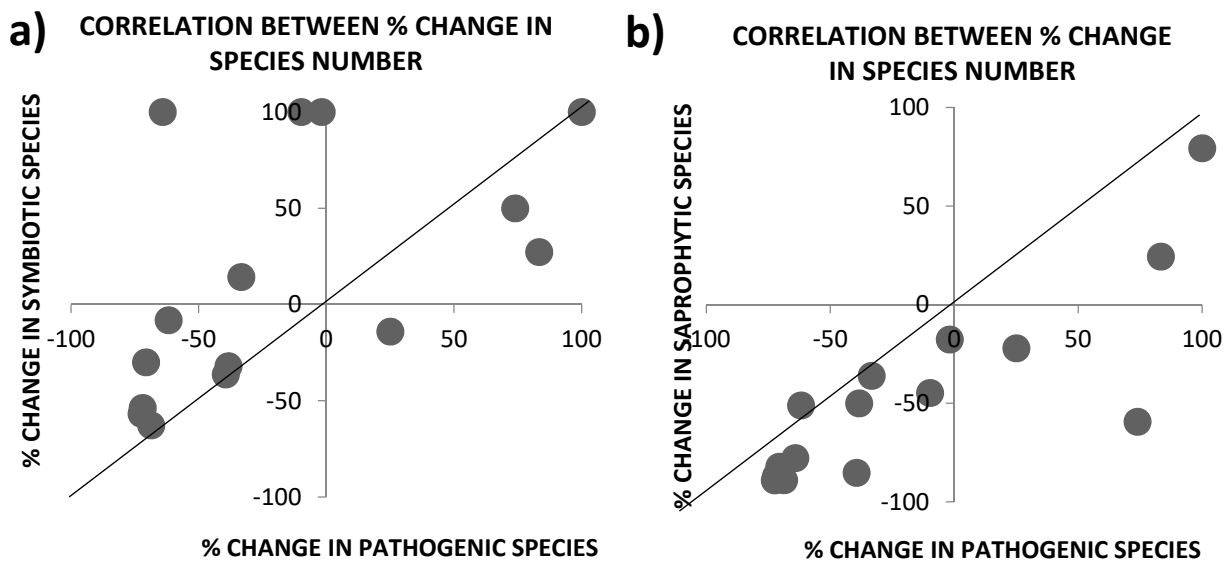


Figure 8. Percent change in number of species per fungal guild from a) pathogenic vs. symbiotic species, or b) pathogenic versus saprotrophic species.

Regarding specific groups of symbiotic organisms, endomycorrhizae were absent in the previous analysis, but appeared to be widespread in the analysis carried out after the treatments. As mentioned above, the overall abundance ranged from 0 (in only one plot) to nearly 1%. Table 3.

Bacteria from genus *Bacillus* and *Paenibacillus* were also commonly present in the samples, but showed a contrasting behaviour with respect to previous results. While *Bacillus* species tended to diminish, *Paenibacillus* expanded its presence in all plots. No *Azotobacter* bacteria were found in this second analysis. Table 3.

Finally, ectomycorrhizal species *Pisolithus arhizus*, significantly increased its presence and abundance, but this only applied to half of the plots (Table 3). That



is, given the previous situation where *P. arhizus* was extremely scarce overall, now we found it to be present at significant frequencies in half of the study sites.

CONCLUSIONS

- Overall, symbiotic fungal species tended to increase their relative abundance, as showed by comparing data before and after treatment.
- Endomycorrhizal species, which were previously absent, were recorded in the second analysis, even if at low frequencies.
- Bacterial symbiotic species differed in their behaviour. *Bacillus* species tended to diminish, *Paenibacillus* increased and *Azotobacter* continued to be missing.
- Ectomycorrhizal species *Pisolithus arhizus*, evolved from nearly missing to present in more than half of the plots.
- Ectomycorrhizal mycelium and mycorrhizae of *Tuber melanosporum* were found abundantly in 2019, explained by the successful inoculation with this fungus.
- All these results were plot-specific, so that general trends might not apply to all particular plots and study sites.

Table 2. Species of bacteria and fungi isolated from soil samples in 2019. When possible, fungal species are further classified into functional guilds

SITE	PLOT	BACTERIA		FUNGI											
		Total	of which				Classified fungal species								
			classified	unclassified					Pathogens	Saprotrophs	Saprotrophs - symbionts	Symbionts			
			2						1						
			3						0	9		2			
ALM	ALMERÍA	328	246	7	96%	9	4%	5	44%	8	41%	8	3%	6	11%
			1												
			7						8	6				2	
PTOLOMAIS	NEXT TO GREY LAND	282	187	8	95%	9	5%	8	49%	1	34%	6	3%	3	13%
			6						4	1				1	
PTOLOMAIS	ABOVE BLACK LAND	243	67	5	97%	2	3%	0	62%	3	20%	1	2%	1	17%
			7						3	2				1	
PTOLOMAIS	UNIT 5	296	76	1	93%	5	7%	7	52%	0	28%	2	3%	2	17%
			1												
			0						6	2					
PTOLOMAIS	GREY LAND	252	117	8	92%	9	8%	8	63%	4	22%	7	6%	9	8%
			3						2						
PTOLOMAIS	SLOPED AREA	86	37	6	97%	1	3%	0	56%	9	25%	1	3%	6	17%
			1												
			2			1			6	4				1	
PTOLOMAIS	BLACK LAND UPPER	291	135	3	91%	2	9%	1	50%	5	37%	4	3%	3	11%
			1												
			0						5	2				1	
PTOLOMAIS	NEXT TO SENSOTERRA	156	110	3	94%	7	6%	8	56%	6	25%	8	8%	1	11%



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PTOLOMAIS	BLACK LAND DOWN	277	103	9	6	93%	7	7%	5	2	1
				3	6		7		6	4	5
				6	6	58%	7	7%	6	25%	5
				7	1		7		1		1
PTOLOMAIS	UPPER PLOT	150	43	8	8	88%	5	12%	9	8	2
				7	9	50%	5	12%	4	21%	5
				9	4		5		2		9
				7	6	58%	7	8%	4	2	2
PTOLOMAIS	SENSOTERRA	244	86	9	9	92%	7	8%	6	1	4
				2	6		7		1	27%	5
				0	1		7		4	5%	8
				1	0		7		1		1
EL BRUC	SUBZONA CAMPO	337	223	6	6	92%	7	8%	2	0	7
				2	2		7		0	34%	2
				0	1		7		2	6%	2
				4	8	93%	5	7%	8	7	1
EL BRUC	SUBZONA BOSQUE	348	219	4	6	42%	5	7%	6	8	2
				2	1		5		8	38%	6
				8	3		5		1	6%	8
				6	2	46%	6	5%	2	39%	2
EL BRUC	CT	360	302	2	2		6	5%	1	1	5
				8	1		6		2	39%	5
				1	2	94%	8	6%	5	44%	3
EL BRUC	CTF	401	299	1	5	44%	8	6%	3	40%	6
				2	9		8		3	40%	6
				0	8	92%	8	8%	4	47%	0
G CAN	GRAN CANARIA	344	218	0	4	47%	8	8%	0	40%	0
				2	9		8		0	5%	1
				5	3		8		1		1
				8	2	48%	5	5%	3	34%	0
ITALY	FICO COCOON	0	273	8	2	48%	5	5%	3	34%	0
				2	1		5		3	4%	3
				9	2		5		0		1
ITALY	FICO CONTROLLO	0	311	0	4	50%	1	7%	2	33%	3
				0	4	50%	1	7%	2	33%	3

TABLE 3. Percentage of abundance of retrieved sequences in metagenomic analysis of soils sampled at various study sites and plots. Rizoph. = *Rizophagus*, Claroid. = *Claroideoglomus*. Sum stands for sum of frequencies of species. Change stands for percent change from 2017 to 2019.

SITE	PLOT	ENDOMYCORHIZAE				BACTERIA						ECTOMYCORHIZAE		
		Rhizoph.	Glomus	Claroid.	SUM	Bacillus			Paenibacillus			Pisolithus		
		2019				2019	2017	CHANGE	2019	2017	CHANGE	2019	2017	CHANGE
ALM	ALMERÍA	0	0.08	0.12	0.20	0.16	0.77	-79	0.04	0.16	-74	0	0.04	-100
PTOLOMAIS	NEXT TO GREY LAND	0.37	0.02	0.03	0.42	0.02	0.10	-77	0.00	0.08	-94	0	0	0
PTOLOMAIS	ABOVE BLACK LAND	0.04	0.03	0	0.07	0.44	0.27	61	0.02	0.01	12	0	0	0
PTOLOMAIS	UNIT 5	0	0	0.01	0.01	0.04	0.90	-96	0.02	0.24	-93	4.46	0	Inf.
PTOLOMAIS	GREY LAND	0.01	0	0	0.01	0.04	0.49	-93	0	0.13	-100	0.13	0.01	+16-fold
PTOLOMAIS	SLOPED AREA	0	0.002	0.48	0.48	0	0.65	-100	0.01	0.14	-89	0	0	0
PTOLOMAIS	BLACK LAND UPPER	0.002	0	0	0.002	0.04	0.12	-67	0	0.05	-100	0.43	0	inf.
PTOLOMAIS	NEXT TO SENSOTERRA	0	0	0	0	0.1	1.09	-91	0.16	0.31	-48	0.50	0.03	+16-fold
PTOLOMAIS	BLACK LAND DOWN	0.04	0.01	0.002	0.05	0.01	0.80	-99	0.004	0.18	-98	0.10	0	inf.
PTOLOMAIS	UPPER PLOT	0.02	0.002	0	0.02	10	0.46	+20-fold	0.42	0.23	83	36.57	0	inf.
PTOLOMAIS	SENSOTERRA	0	0.08	0.87	0.95	0.03	0.80	-97	0.004	0.13	-97	0	0	0
EL BRUC	SUBZONA CAMPO	0.09	0.01	0	0.10	1.28	0.10	+12-fold	0.35	0.28	26	0.003	0	inf.
EL BRUC	SUBZONA BOSQUE	0	0	0.11	0.11	0.49	1.45	-66	0.12	0.33	-64	0.12	0.01	+8-fold
EL BRUC	CT	0	0.03	0.14	0.17	3.38	2.00	69	0.53	0.44	20	0	0	0
EL BRUC	CTF	0	0	0.03	0.03	0.29	1.53	-81	0.10	0.19	-45	0.002	0.01	-83
G CAN	GRAN CANARIA	0	0.02	0.15	0.17	0.14	0.60	-77	0.05	0.10	-47	0.03	0	0
ITALY	FICO COCOON	0.03	0	0.41	0.41	0	0	0	0	0	0	0.034	0	0
ITALY	FICO CONTROLLO	0	0	0.23	0.23	0	0	0	0	0	0	0.007	0	0



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APPENDIX 1. IDENTIFIED ORGANISMS

GRAN CANARIA

GRAN CANARIA

Nº Especies totales identificadas	218
Nº Patógenos	94
Nº Saprófitos	80
Nº Saprófitos-simbiontes	10
Nº Simbiontes	16
Nº especies no clasificadas	18

Etiquetas de fila	Suma de Gcanaria
Patógenos	54,62836918
Animal Pathogen-Dung Saprotroph-Endophyte-Epiphyte-Plant Saprotroph-Wood Saprotroph	12,78246665
s_Chaetomium_sp.	9,814865233
s_Chaetomium_iranianum	2,96371203
s_Chaetomium_bostrychodes	0,003889386
Animal Pathogen-Endophyte-Plant Pathogen-Wood Saprotroph	6,751973864
s_Alternaria_soliaridae	6,514721326
s_Alternaria_atra	0,233363152
s_Alternaria_alternata	0,003889386
Endophyte-Plant Pathogen-Undefined Saprotroph	6,448601766
s_Pleospora_herbarum	6,448601766
Plant Pathogen	6,341643655
s_Lewia_infectoria	2,845085761
s_Cochliobolus_microlaenae	0,824549804
s_Stagonosporopsis_dorenboschii	0,600910116
s_Botryotinia_fuckeliana	0,598965423
s_Stagonospora_sp.	0,534790557
s_Phaeoacremonium_hungaricum	0,295593326
s_Penicillium_expansum	0,200303372
s_Phaeomoniella_chlamydospora	0,09917934
s_Laetisaria_fuciformis	0,075843024
s_Clonostachys_sp.	0,073898331
s_Macrophomina_phaseolina	0,056396095
s_Penicillium_glabrum	0,036949166
s_Mycosphaerella_pini	0,031115087
s_Haematonectria_haematococca	0,019446929
s_Monosporascus_sp.	0,019446929
s_Olpidium_brassicae	0,011668158
s_Mycocentrospora_acerina	0,009723465
s_Clonostachys_rosea	0,003889386
s_Bipolaris_eleusines	0,001944693
s_Pseudoseptoria_donacis	0,001944693
Animal Pathogen-Endophyte-Epiphyte-Undefined Saprotroph	6,141340282
s_Cryptococcus_aerius	1,421570534
s_Cryptococcus_oeirensis	1,046244798
s_Cryptococcus_paraflavus	0,785655945
s_Cryptococcus_adeliensis	0,667029676

s_Cryptococcus_terreus	0,614522967
s_Cryptococcus_magnus	0,336431877
s_Cryptococcus_sp.	0,254754774
s_Cryptococcus_podzolicus	0,254754774
s_Cryptococcus_bhutanensis	0,235307845
s_Cryptococcus_laurentii	0,14585197
s_Cryptococcus_chernovii	0,106958111
s_Cryptococcus_saitoi	0,087511182
s_Cryptococcus_friedmannii	0,064174867
s_Cryptococcus_terricola	0,054451402
s_Cryptococcus_dimennae	0,042783245
s_Cryptococcus_flavus	0,023336315
Animal Pathogen-Endophyte-Epiphyte-Plant Pathogen	5,524872623
s_Aureobasidium_pullulans	5,524872623
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Soil Saprotroph-Wood Saprotroph	2,310295205
s_Fusarium_equiseti	2,277235425
s_Fusarium_beomiforme	0,019446929
s_Fusarium_nelsonii	0,013612851
Endophyte-Fungal Parasite-Lichen Parasite-Plant Pathogen-Wood Saprotroph	1,880518066
s_Epicoccum_nigrum	1,880518066
Animal Pathogen-Dung Saprotroph-Endophyte-Plant Saprotroph-Soil Saprotroph-Wood Saprotroph	1,687993466
s_Cladorrhinum_sp.	1,687993466
Animal Pathogen	0,643693361
s_Aspergillus_insuetus	0,188635214
s_Coniochaeta_cateniformis	0,163354206
s_Hanseniaspora_uvarum	0,105013418
s_Beauveria_pseudobassiana	0,070008946
s_Aspergillus_wentii	0,029170394
s_Aspergillus_penicillioides	0,025281008
s_Aspergillus_bombycis	0,017502236
s_Lecanicillium_psalliotae	0,011668158
s_Lecanicillium_sp.	0,011668158
s_Aspergillus_ochraceus	0,011668158
s_Engyodontium_album	0,005834079
s_Cladosporium_halotolerans	0,003889386
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Wood Saprotroph	0,554237486
s_Cladosporium_exasperatum	0,5503481
s_Cladosporium_fusifforme	0,003889386
Animal Pathogen-Plant Pathogen-Undefined Saprotroph	0,482283847
s_Didymella_urticicola	0,408385516
s_Coniosporium_apollinis	0,073898331
Endophyte-Dung Saprotroph-Lichen Parasite-Litter Saprotroph-Plant Pathogen-Soil Saprotroph-Wood Saprotroph	0,47061569
s_Phoma_sp.	0,466726304
s_Phoma_glomerata	0,003889386
Animal Pathogen-Undefined Saprotroph	0,45700284
s_Malassezia_globosa	0,332542492

s_Aspergillus_fumigatus	0,122515655
s_Malassezia_restricta	0,001944693
Endophyte-Fungal Parasite-Plant Pathogen	0,398662051
s_Verticillium_dahliae	0,398662051
Plant Pathogen-Wood Saprotrroph	0,256699467
s_Cladosporium_herbarum	0,256699467
Animal Pathogen-Endophyte-Plant Saprotrroph-Soil Saprotrroph-Undefined Saprotrroph-Wood Saprotrroph	0,182801136
s_Aspergillus_piperis	0,085566489
s_Aspergillus_sclerotiorum	0,081677103
s_Aspergillus_leporis	0,011668158
s_Aspergillus_sp.	0,003889386
Endophyte-Epiphyt-Fungal Parasite-Plant Pathogen-Wood Saprotrroph	0,165298899
s_Trichoderma_velutinum	0,165298899
Endophyte-Plant Pathogen	0,15946482
s_Periconia_prolifca	0,118626269
s_Botryosphaeria_sp.	0,019446929
s_Camarosporium_sp.	0,015557543
s_Toxicocladosporium_leucadendri	0,005834079
Animal Pathogen-Endophyte-Fungal Parasite-Plant Pathogen-Wood Saprotrroph	0,149741356
s_Acremonium_persicinum	0,081677103
s_Acremonium_stromaticum	0,068064253
Lichen Parasite	0,143907277
s_Trimmatostroma_salinum	0,143907277
Endophyte-Plant Pathogen-Wood Saprotrroph	0,134183812
s_Periconia_sp.	0,134183812
Endophyte-Lichen Parasite-Wood Saprotrroph	0,126405041
s_Monodictys_castaneae	0,126405041
Ericoid Mycorrhizal	0,118626269
s_Oidiodendron_sp.	0,118626269
Animal Pathogen-Endophyte-Plant Pathogen-Undefined Saprotrroph	0,101124033
s_Microascus_sp.	0,101124033
Animal Pathogen-Endosymbiont-Undefined Saprotrroph	0,081677103
s_Candida_stellata	0,081677103
Animal Endosymbiont-Animal Pathogen-Endophyte-Plant Pathogen-Undefined Saprotrroph	0,062230174
s_Rhodotorula_mucilaginosa	0,062230174
Plant Pathogen-Undefined Saprotrroph	0,038893859
s_Rhizopus_oryzae	0,038893859
Ectomycorrhizal-Fungal Parasite-Soil Saprotrroph-Undefined Saprotrroph	0,025281008
s_Entoloma_perumbilicatum	0,025281008
Fungal Parasite-Litter Saprotrroph-Undefined Saprotrroph	0,003889386
s_Occultifur_sp.	0,003889386
Animal Pathogen-Endophyte-Ericoid Mycorrhizal-Plant Pathogen-Wood Saprotrroph	0,001944693
s_Phialophora_sp.	0,001944693
Saprófitos	30,92450702
Dung Saprotrroph-Wood Saprotrroph	18,75267395
s_Ascobolus_sp.	18,75267395

Undefined Saprotroph	8,072420366
s_Coprinellus_curtus	0,943176072
s_Myrothecium_sp.	0,832328575
s_Cladophialophora_sp.	0,816771032
s_Phaeococcomyces_aloes	0,641748668
s_Preussia_sp.	0,521177706
s_Ophioceras_aquaticus	0,493952005
s_Geastrum_floriforme	0,48422854
s_Lepidosphaeria_nicotiae	0,431721831
s_Articulospora_sp.	0,254754774
s_Filobasidium_floriforme	0,241141924
s_Leucoagaricus_crystallifer	0,206137451
s_Dioszegia_hungarica	0,173077671
s_Calycina_claroflava	0,130294427
s_Tetracladium_sp.	0,122515655
s_Clavulinopsis_sp.	0,110847497
s_Arthrimum_sp.	0,108902804
s_Phaeococcomyces_sp.	0,106958111
s_Clitopilus_sp.	0,106958111
s_Glutinoglossum_glutinosum	0,097234647
s_Conocybe_subpubescens	0,089455875
s_Cunninghamella_intermedia	0,085566489
s_Pseudeurotium_hygrophilum	0,085566489
s_Talaromyces_purpureogenus	0,085566489
s_Erythrobasidium_hasegawianum	0,081677103
s_Pseudallescheria_fimeti	0,077787717
s_Monocillium_indicum	0,075843024
s_Scedosporium_dehoogii	0,064174867
s_Saccharomyces_cerevisiae	0,064174867
s_Coprinellus_xanthothrix	0,064174867
s_Conocybe_sp.	0,056396095
s_Leohumicola_minima	0,052506709
s_Helicoma_sp.	0,050562016
s_Phaeosphaeria_sp.	0,038893859
s_Calcarisporiella_sp.	0,036949166
s_Ochroconis_tshawytschae	0,031115087
s_Hormonema_sp.	0,029170394
s_Mucor_circinelloides	0,029170394
s_Hydropisphaera_erubescens	0,021391622
s_Ascotricha_sp.	0,019446929
s_Preussia_flanaganii	0,019446929
s_Apodus_sp.	0,013612851
s_Harzia_acremonioides	0,011668158
s_Auricularia_sp.	0,009723465
s_Dactylella_leptospora	0,009723465
s_Hansfordia_sp.	0,009723465
s_Scutellinia_sp.	0,005834079
s_Conioecissia_nodulisporioides	0,005834079

s_Lophiostoma_sp.	0,005834079
s_Sistotremastrum_guttuliferum	0,003889386
s_Coprinellus_sabulicola	0,003889386
s_Ramicandelaber_longisporus	0,003889386
s_Corynascus_sp.	0,001944693
s_Ochroconis_sp.	0,001944693
s_Gymnopus_alkalivirens	0,001944693
Soil Saprotroph	1,341838123
s_Lepiota_brunneoincarnata	1,094862121
s_Lepiota_farinolens	0,188635214
s_Geomyces_sp.	0,056396095
s_Tulostoma_brumale	0,001944693
Dung Saprotroph	0,997627475
s_Sporormia_sp.	0,563960951
s_Schizothecium_carpinicola	0,421998366
s_Zopfiella_sp.	0,005834079
s_Podospora_communis	0,005834079
Undefined Saprotroph-Wood Saprotroph	0,703978842
s_Humicola_grisea	0,318929641
s_Chrysosporium_lobatum	0,29170394
s_Chrysosporium_pilosum	0,093345261
Dung Saprotroph-Undefined Saprotroph-Wood Saprotroph	0,651472132
s_Penicillium_nodositatum	0,505620163
s_Penicillium_charlesii	0,058340788
s_Penicillium_bilaiae	0,04667263
s_Penicillium_inflatum	0,017502236
s_Penicillium_westlingii	0,017502236
s_Penicillium_sp.	0,003889386
s_Scopulariopsis_sp.	0,001944693
Wood Saprotroph	0,196413986
s_Scytalidium_circinatum	0,110847497
s_Polyporus_arcularius	0,040838552
s_Lindtneria_sp.	0,029170394
s_Lentinula_edodes	0,015557543
Leaf Saprotroph	0,151686049
s_Cystofilobasidium_macerans	0,151686049
Dung Saprotroph-Undefined Saprotroph	0,044727937
s_Melanospora_tiffanii	0,044727937
Dung Saprotroph-Soil Saprotroph-Undefined Saprotroph	0,011668158
s_Agrocybe_pediades	0,011668158
Saprófito-simbiontes	4,120804324
Endophyte-Litter Saprotroph-Soil Saprotroph-Undefined Saprotroph	3,368208159
s_Mortierella_sp.	2,551437128
s_Mortierella_elongata	0,45116876
s_Mortierella_clonocystis	0,365602271
Endophyte-Undefined Saprotroph-Wood Saprotroph	0,248920695
s_Xylaria_sp.	0,248920695
Dung Saprotroph-Endophyte-Litter Saprotroph-Undefined Saprotroph	0,243086617

s_Podospora_sp.	0,243086617
Animal Endosymbiont-Undefined Saprotroph	0,171132978
s_Pichia_fermentans	0,169188285
s_Pichia_membranifaciens	0,001944693
Clavicipitaceous Endophyte-Undefined Saprotroph-Wood Saprotroph	0,054451402
s_Paecilomyces_marquandii	0,048617323
s_Paecilomyces_sp.	0,005834079
Endophyte-Undefined Saprotroph	0,035004473
s_Anthostomella_sp.	0,035004473
Simbiontes	3,409046713
Ectomycorrhizal	2,862587998
s_Tomentella_sp.	1,308778344
s_Terfezia_sp.	1,081249271
s_Cortinarius_sp.	0,445334682
s_Pisolithus_arhizus	0,027225701
Endophyte	0,262533546
s_Cladosporium_sphaerospermum	0,138073198
s_Metschnikowia_pulcherrima	0,07973241
s_Phialophora_verrucosa	0,019446929
s_Capronia_sp.	0,013612851
s_Penicillium_brevicompactum	0,011668158
Arbuscular Mycorrhizal	0,175022364
s_Claroideoglomus_sp.	0,147796663
s_Glomus_sp.	0,015557543
s_Diversispora_insculpta	0,009723465
s_Claroideoglomus_etunicatum	0,001944693
Lichenized	0,108902805
s_Leptosphaerulina_trifolii	0,101124033
s_Verrucaria_muralis	0,003889386
s_Circinaria_mansourii	0,003889386
Sin clasificar	6,917272762
-	6,917272762
s_Setophoma_terrestris	3,687137801
s_Brettanomyces_bruyellensis	0,884835285
s_Tricholosporum_porphyrophyllum	0,563960951
s_Pustularia_sp.	0,386993894
s_Paraphoma_sp.	0,30531679
s_Clarireedia_bennettii	0,289759247
s_Holtermannia_corniformis	0,227529073
s_Paraphoma_chrysanthemicola	0,161409513
s_Pleiochaeta_setosa	0,114736883
s_Cephalophora_sp.	0,052506709
s_Dactylonectria_alcacerensis	0,048617323
s_Metschnikowia_chrysoperlae	0,04667263
s_Clohesyomyces_sp.	0,035004473
s_Oedocephalum_sp.	0,029170394
s_Oedocephalum_adhaerens	0,027225701
s_Pseudorobillarda_sp.	0,027225701

s_Hispidoconidioma_sp.	0,021391622
s_Lobulomyces_angularis	0,007778772
Total general	100

ALMERÍA

ALMERÍA

Nº Especies totales identificadas	246
Nº Patógenos	105
Nº Saprófitos	98
Nº Saprófitos-simbiontes	8
Nº Simbiontes	26
Nº especies no clasificadas	9

Etiquetas de fila	Suma de AQ703G
Patógenos	39,48116122
Animal Pathogen-Endophyte-Plant Saprotrroph-Soil Saprotrroph-Undefined	
Saprotrroph-Wood Saprotrroph	9,344039531
s_Aspergillus_sclerotiorum	8,807906115
s_Aspergillus_piperis	0,281655343
s_Aspergillus_lanosus	0,140827671
s_Aspergillus_sp.	0,076590488
s_Aspergillus_granulosus	0,037059914
Animal Pathogen-Endophyte-Epiphyte-Undefined Saprotrroph	8,069178505
s_Cryptococcus_aerius	4,249536751
s_Cryptococcus_terreus	1,69734404
s_Cryptococcus_bhutanensis	0,605311921
s_Cryptococcus_magnus	0,496602841
s_Cryptococcus_podzolicus	0,254478073
s_Cryptococcus_sp.	0,200123533
s_Cryptococcus_adeliensis	0,197652872
s_Cryptococcus_laurentii	0,158122298
s_Cryptococcus_terricola	0,143298332
s_Cryptococcus_dimennae	0,064237183
s_Cryptococcus_chernovii	0,002470661
Plant Pathogen	5,378628783
s_Botryotinia_fuckeliana	0,919085855
s_Glomerella_tucumanensis	0,827671402
s_Penicillium_glabrum	0,714021001
s_Curvularia_inaequalis	0,647313156
s_Pilidiella_quercicola	0,420012353
s_Stagonosporopsis_dorenboschii	0,402717727
s_Clonostachys_rosea	0,370599135
s_Ilyonectria_robusta	0,333539222
s_Haematonectria_haematococca	0,30142063
s_Monographella_cucumerina	0,123533045
s_Truncatella_laurocerasi	0,084002471
s_Penicillium_expansum	0,079061149

s_Pestalotiopsis_sp.	0,069178505
s_Ilyonectria_liriodendri	0,066707844
s_Ascochyta_fabae	0,004941322
s_Septoria_sp.	0,004941322
s_Cylindrocarpon_ianthothele	0,004941322
s_Penicillium_chrysogenum	0,002470661
s_Bipolaris_eleusines	0,002470661
Endophyte-Fungal Parasite-Lichen Parasite-Plant Pathogen-Wood	
Saprotroph	3,137739345
s_Epicoccum_nigrum	3,137739345
Endophyte-Fungal Parasite-Plant Pathogen	1,684990735
s_Verticillium_dahliae	1,684990735
Animal Pathogen	1,487337864
s_Aspergillus_wentii	0,859789994
s_Hanseniaspora_uvarum	0,424953675
s_Beauveria_sp.	0,05435454
s_Metacordyceps_chlamydosporia	0,039530574
s_Simplicillium_sp.	0,037059914
s_Aspergillus_insuetus	0,024706609
s_Trichosporon_asahii	0,017294626
s_Torulaspota_delbrueckii	0,012353305
s_Lecanicillium_primulinum	0,007411983
s_Rotiferophthora_angustispora	0,002470661
s_Aspergillus_japonicus	0,002470661
s_Coniochaeta_cateniformis	0,002470661
s_Lachancea_thermotolerans	0,002470661
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Soil	
Saprotroph-Wood Saprotroph	1,363804818
s_Fusarium_equiseti	0,946263125
s_Fusarium_acuminatum	0,207535516
s_Fusarium_delphinoides	0,130945028
s_Fusarium_pseudensiforme	0,046942557
s_Fusarium_keratoplasticum	0,02717727
s_Fusarium_sp.	0,004941322
Ectomycorrhizal-Fungal Parasite-Soil Saprotroph-Undefined Saprotroph	1,247683755
s_Entoloma_platyphylloides	1,247683755
Animal Pathogen-Dung Saprotroph-Endophyte-Epiphyte-Plant	
Saprotroph-Wood Saprotroph	1,000617665
s_Chaetomium_sp.	0,998147004
s_Chaetomium_iranianum	0,002470661
Animal Pathogen-Endophyte-Fungal Parasite-Plant Pathogen-Wood	
Saprotroph	0,993205684
s_Acremonium_persicinum	0,802964793
s_Acremonium_nepalense	0,079061149
s_Acremonium_stromaticum	0,037059914
s_Acremonium_alternatum	0,037059914
s_Acremonium_chrysogenum	0,022235948
s_Acremonium_spinosum	0,012353305
s_Acremonium_sp.	0,002470661

Plant Pathogen-Wood Saprotroph	0,788140828
s_Coniothyrium_sidae	0,560840025
s_Cladosporium_herbarum	0,21988882
s_Ganoderma_lingzhi	0,007411983
Endophyte-Plant Pathogen	0,706609018
s_Thermomyces_lanuginosus	0,518838789
s_Botryosphaeria_sp.	0,128474367
s_Camarosporium_sp.	0,059295862
Animal Pathogen-Plant Pathogen-Undefined Saprotroph	0,449660285
s_Didymella_urticicola	0,353304509
s_Didymella_sp.	0,059295862
s_Coniosporium_sp.	0,037059914
Animal Pathogen-Endophyte-Plant Pathogen-Wood Saprotroph	0,395305745
s_Alternaria_atra	0,338480544
s_Alternaria_solaridae	0,044471896
s_Alternaria_alternata	0,012353305
Endophyte-Fungal Parasite	0,373069796
s_Hypocrea_lactea	0,368128474
s_Hypocrea_delicatula	0,004941322
Animal Pathogen-Endophyte-Epiphyte-Plant Pathogen	0,373069796
s_Aureobasidium_pullulans	0,373069796
Animal Pathogen-Undefined Saprotroph	0,32612724
s_Aspergillus_fumigatus	0,281655343
s_Exophiala_sp.	0,032118592
s_Cyphellophora_sp.	0,009882644
s_Exophiala_equina	0,002470661
Fungal Parasite-Lichen Parasite	0,281655343
s_Tremella_sp.	0,281655343
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Wood Saprotroph	0,271772699
s_Cladosporium_exasperatum	0,271772699
Ectomycorrhizal-Fungal Parasite	0,266831377
s_Tricholoma_batschii	0,266831377
Endophyte-Dung Saprotroph-Lichen Parasite-Litter Saprotroph-Plant Pathogen-Soil Saprotroph-Wood Saprotroph	0,242124768
s_Phoma_sp.	0,242124768
Endophyte-Plant Pathogen-Wood Saprotroph	0,21988882
s_Chalara_sp.	0,202594194
s_Cytospora_sp.	0,017294626
Endophyte-Plant Pathogen-Undefined Saprotroph	0,195182211
s_Pleospora_herbarum	0,195182211
Animal Pathogen-Endophyte-Plant Pathogen-Undefined Saprotroph	0,153180976
s_Microascus_sp.	0,153180976
Animal Pathogen-Endosymbiont-Undefined Saprotroph	0,150710315
s_Candida_stellata	0,150710315
Animal Pathogen-Endophyte-Ericoid Mycorrhizal-Plant Pathogen-Wood Saprotroph	0,138357011
s_Phialophora_sp.	0,138357011
Fungal Parasite	0,128474367

s_Purpureocillium_lilacinum	0,123533045
s_Purpureocillium_lavendulum	0,004941322
Ericoid Mycorrhizal	0,071649166
s_Oidiodendron_tenuissimum	0,071649166
Animal Pathogen-Wood Saprotroph	0,061766523
s_Aspergillus_terreus	0,061766523
Epiphyte-Plant Pathogen-Wood Saprotroph	0,05435454
s_Diplodia_seriate	0,05435454
Animal Endosymbiont-Animal Pathogen-Endophyte-Plant Pathogen-Undefined Saprotroph	0,049413218
s_Rhodotorula_mucilaginosa	0,049413218
Endophyte-Lichen Parasite-Plant Pathogen-Undefined Saprotroph	0,029647931
s_Didymosphaeria_sp.	0,029647931
Plant Pathogen-Undefined Saprotroph	0,02717727
s_Massarina_sp.	0,02717727
Animal Pathogen-Clavicipitaceous Endophyte-Fungal Parasite	0,012353305
s_Cordyceps_bassiana	0,012353305
Fungal Parasite-Plant Pathogen	0,007411983
s_Helminthosporium_solani	0,007411983
Saprófitos	32,7461396
Undefined Saprotroph	19,50586782
s_Geminibasidium_sp.	7,108091414
s_Hansfordia_sp.	3,473749228
s_Erythrobasidium_hasegawianum	1,576281655
s_Absidia_spinosa	1,299567634
s_Tetracladium_sp.	1,008029648
s_Filobasidium_floriforme	0,941321804
s_Sagenomella_diversispora	0,637430513
s_Lophiostoma_sp.	0,486720198
s_Gymnostellatospora_frigida	0,254478073
s_Cephalotheca_sulfurea	0,214947498
s_Ophiosphaerella_sp.	0,212476838
s_Conocybe_dunensis	0,202594194
s_Zasmidium_cellare	0,200123533
s_Wardomyces_inflatus	0,190240889
s_Coprinellus_radians	0,126003706
s_Ochrocladosporium_elatum	0,123533045
s_Neurospora_terricola	0,118591723
s_Guehomyces_pullulans	0,116121062
s_Mucor_circinelloides	0,103767758
s_Saccharomyces_cerevisiae	0,096355775
s_Sclerostagonospora_sp.	0,088943792
s_Cistella_sp.	0,08153181
s_Paraconiothyrium_variabile	0,08153181
s_Gongronella_sp.	0,076590488
s_Sarcoleotia_globosa	0,064237183
s_Preussia_polymorpha	0,049413218
s_Conlarium_sp.	0,046942557

s_Hormonema_sp.	0,046942557
s_Corynespora_smithii	0,044471896
s_Calycina_claroflava	0,042001235
s_Coprinopsis_stangliana	0,037059914
s_Agaricus_bitorquis	0,032118592
s_Clavaria_sp.	0,02717727
s_Arthrographis_sp.	0,02717727
s_Absidia_glauca	0,024706609
s_Cunninghamella_echinulata	0,024706609
s_Phaeosphaeria_sp.	0,019765287
s_Geastrum_minimum	0,017294626
s_Spiromyces_sp.	0,017294626
s_Myrmecridium_sp.	0,017294626
s_Auricularia_sp.	0,017294626
s_Lycoperdon_pratense	0,014823965
s_Pseudeurotium_hygrophilum	0,014823965
s_Scutellinia_torrentis	0,012353305
s_Aphanoascus_mephitalis	0,012353305
s_Cirrenalia_macrocephala	0,012353305
s_Scolecobasidium_sp.	0,007411983
s_Preussia_sp.	0,007411983
s_Coprinellus_sp.	0,007411983
s_Gymnopus_alkalivirens	0,004941322
s_Neobulgaria_sp.	0,004941322
s_Thermoascus_sp.	0,004941322
s_Arthrimum_malaysianum	0,004941322
s_Myrothecium_sp.	0,004941322
s_Preussia_flanaganii	0,002470661
s_Mucor_hiemalis	0,002470661
s_Ophiosphaerella_herpotricha	0,002470661
s_Calcarisporiella_sp.	0,002470661
s_Talaromyces_purpureogenus	0,002470661
s_Pyronema_sp.	0,002470661
s_Hyphodontia_setulosa	0,002470661
Dung Saprotroph-Undefined Saprotroph-Wood Saprotroph	5,694873379
s_Penicillium_meridianum	3,189623224
s_Penicillium_sp.	0,54848672
s_Penicillium_sizovae	0,523780111
s_Penicillium_roseopurpureum	0,429894997
s_Penicillium_nodositatum	0,331068561
s_Penicillium_bilaiae	0,3285979
s_Penicillium_anatolicum	0,21988882
s_Penicillium_bialowiezense	0,069178505
s_Penicillium_charlesii	0,032118592
s_Penicillium_gallaicum	0,007411983
s_Scopulariopsis_sp.	0,007411983
s_Penicillium_megasporum	0,004941322
s_Penicillium_menororum	0,002470661

Litter Saprotroph-Soil Saprotroph-Wood Saprotroph	4,669549104
s_Phallus_impudicus	4,669549104
Soil Saprotroph	1,153798641
s_Lepiota_brunneoincarnata	0,506485485
s_Lepiota_forquignonii	0,224830142
s_Lepiota_subincarnata	0,153180976
s_Bovista_furfuracea	0,098826436
s_Geomyces_asperulatus	0,091414453
s_Bovista_tomentosa	0,046942557
s_Geomyces_auratus	0,032118592
Wood Saprotroph	0,916615196
s_Bactrodesmium_longisporum	0,565781347
s_Stachybotrys_chartarum	0,185299568
s_Thielaviopsis_basicola	0,130945028
s_Scytalidium_sp.	0,022235948
s_Stachybotrys_oleronensis	0,007411983
s_Simocybe_sp.	0,004941322
Undefined Saprotroph-Wood Saprotroph	0,474366894
s_Chrysosporium_lobatum	0,210006177
s_Pyrenochaeta_sp.	0,153180976
s_Humicola_grisea	0,061766523
s_Chrysosporium_sp.	0,019765287
s_Chrysosporium_undulatum	0,017294626
s_Chrysosporium_pilosum	0,012353305
Dung Saprotroph	0,3285979
s_Schizothecium_glutinans	0,298949969
s_Cercophora_sp.	0,019765287
s_Podospora_communis	0,009882644
Dung Saprotroph-Undefined Saprotroph	0,002470661
s_Chaetomidium_galaicum	0,002470661
Saprófito-Simbionte	17,89746757
Endophyte-Litter Saprotroph-Soil Saprotroph-Undefined Saprotroph	17,78628783
s_Mortierella_sp.	14,27794935
s_Mortierella_clonocystis	1,981470043
s_Mortierella_elongata	1,348980852
s_Mortierella_exigua	0,177887585
Dung Saprotroph-Endophyte-Litter Saprotroph-Undefined Saprotroph	0,061766523
s_Podospora_sp.	0,061766523
Animal Endosymbiont-Undefined Saprotroph	0,039530574
s_Pichia_membranifaciens	0,039530574
Ectomycorrhizal-Undefined Saprotroph-Wood Saprotroph	0,007411983
s_Morchella_importuna	0,007411983
Dung Saprotroph-Ectomycorrhizal-Litter Saprotroph-Undefined Saprotroph	0,002470661
s_Peziza_sp.	0,002470661
Simbiontes	6,505250157
Ectomycorrhizal	3,686226066
s_Cortinarius_sp.	1,423100679

s_Geopyxis_sp.	1,047560222
s_Tomentella_sp.	0,610253243
s_Cortinarius_aurilicis	0,333539222
s_Epulothiza_sp.	0,113650401
s_Boletus_lupinus	0,086473132
s_Rhizopogon_roseolus	0,029647931
s_Suillus_granulatus	0,029647931
s_Cortinarius_aurantiorufus	0,004941322
s_Efibulobasidium_sp.	0,002470661
s_Tuber_melanosporum	0,002470661
s_Thelephora_sp.	0,002470661
Orchid Mycorrhizal	2,401482397
s_Serendipita_sp.	2,374305127
s_Serendipita_herbamans	0,017294626
s_Serendipita_vermifera	0,009882644
Arbuscular Mycorrhizal	0,214947499
s_Claroideoglosum_sp.	0,098826436
s_Glosum_sp.	0,049413218
s_Claroideoglosum_claroideum	0,02717727
s_Glosum_aggregatum	0,02717727
s_Paraglosum_sp.	0,012353305
Endophyte	0,165534281
s_Penicillium_brevicompactum	0,05435454
s_Lecythophora_sp.	0,049413218
s_Cadophora_luteo-olivacea	0,044471896
s_Phialocephala_humicola	0,009882644
s_Metschnikowia_pulcherrima	0,007411983
Ectomycorrhizal-Orchid Mycorrhizal-Root Associated Biotroph	0,037059914
s_Sebacina_sp.	0,037059914
Sin clasificar	3,36998147
-	3,36998147
s_Brettanomyces_brucei	1,756639901
s_Dactylonectria_alcacerensis	1,064854849
s_Metschnikowia_chrysoperlae	0,294008647
s_Lipomyces_tetrasporus	0,091414453
s_Neostagonospora_caricis	0,059295862
s_Spiromastigoides_tentaculata	0,044471896
s_Paraphoma_sp.	0,037059914
s_Paraphoma_chrysanthemicola	0,017294626
s_Hanseniaspora_osmophila	0,004941322
Total general	100

PTOLOMAIS

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Nº Especies totales identificadas 103

Nº Patógenos 56

Nº Saprófitos	24
Nº Saprófitos-simbiontes	5
Nº Simbiontes	11
Nº especies no clasificadas	7

Etiquetas de fila	Suma de AQ703H
Patógeno	55,87853551
Dung Saprotroph-Plant Pathogen	29,36563734
s_Coprinus_phaeopunctatus	29,36563734
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Soil Saprotroph-Wood Saprotroph	7,152128063
s_Fusarium_acuminatum	4,026283057
s_Fusarium_equiseti	2,547185117
s_Fusarium_pseudensiforme	0,578659889
Plant Pathogen	5,056513978
s_Stagonosporopsis_dorenboschii	2,192958737
s_Curvularia_australiensis	1,619706884
s_Leptosphaeria_sp.	0,448867016
s_Pleospora_betae	0,446162998
s_Phaeoacremonium_hungaricum	0,100048672
s_Lewia_infectoria	0,091936618
s_Penicillium_citrinum	0,048672327
s_Monographella_cucumerina	0,037856254
s_Haematonectria_haematococca	0,024336164
s_Leptosphaeria_biglobosa	0,018928127
s_Botryotinia_fuckeliana	0,018928127
s_Leptosphaeria_maculans	0,002704018
s_Ascochyta_fabae	0,002704018
s_Penicillium_glabrum	0,002704018
Animal Pathogen-Endophyte-Fungal Parasite-Plant Pathogen-Wood Saprotroph	3,225893678
s_Acremonium_alternatum	3,177221351
s_Acremonium_persicinum	0,045968309
s_Acremonium_implicatum	0,002704018
Animal Pathogen-Endophyte-Epiphyte-Undefined Saprotroph	2,493104753
s_Cryptococcus_magnus	1,059975123
s_Cryptococcus_adeliensis	1,054567087
s_Cryptococcus_dimennae	0,273105835
s_Cryptococcus_saitoi	0,048672327
s_Cryptococcus_laurentii	0,043264291
s_Cryptococcus_aerius	0,005408036
s_Cryptococcus_wieringae	0,005408036
s_Cryptococcus_terreus	0,002704018
Plant Pathogen-Wood Saprotroph	2,214590883
s_Coniothyrium_sp.	1,068087178
s_Coniothyrium_sidae	1,068087178
s_Cladosporium_herbarum	0,078416527
Endophyte-Lichen Parasite-Plant Pathogen-Undefined Saprotroph	2,146990428
s_Pleospora_halimiones	2,146990428
Animal Pathogen	1,703531449

s_Lecanicillium_saksenae	0,905846087
s_Lecanicillium_sp.	0,578659889
s_Hirsutella_minnesotensis	0,137904927
s_Rotiferophthora_angustispora	0,056784382
s_Lecanicillium_psalliotae	0,024336164
Animal Pathogen-Endophyte-Plant Pathogen-Wood Saprotrroph	0,611108107
s_Alternaria_soliaridae	0,567843816
s_Alternaria_alternata	0,043264291
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Wood Saprotrroph	0,554323725
s_Cladosporium_exasperatum	0,554323725
Endophyte-Plant Pathogen	0,438050944
s_Microdochium_bolleyi	0,28121789
s_Diaporthe_gulyae	0,146016981
s_Colletotrichum_dematium	0,010816073
Endophyte-Fungal Parasite-Lichen Parasite-Plant Pathogen-Wood Saprotrroph	0,273105835
s_Epicoccum_nigrum	0,273105835
Endophyte-Plant Pathogen-Wood Saprotrroph	0,270401817
s_Phomopsis_sp.	0,248769672
s_Torula_sp.	0,021632145
Animal Pathogen-Endophyte-Plant Saprotrroph-Soil Saprotrroph-Undefined Saprotrroph-Wood Saprotrroph	0,183873236
s_Aspergillus_neoniveus	0,183873236
Animal Pathogen-Plant Pathogen-Undefined Saprotrroph	0,062192418
s_Didymella_urticicola	0,062192418
Animal Pathogen-Undefined Saprotrroph	0,040560272
s_Exophiala_sp.	0,035152236
s_Aspergillus_fumigatus	0,005408036
Animal Endosymbiont-Animal Pathogen-Endophyte-Plant Pathogen-Undefined Saprotrroph	0,032448218
s_Rhodotorula_aurantiaca	0,032448218
Endophyte-Plant Pathogen-Undefined Saprotrroph	0,0297442
s_Pleospora_herbarum	0,0297442
Fungal Parasite	0,016224109
s_Purpureocillium_lilacinum	0,016224109
Endomycorrhizal-Plant Pathogen-Undefined Saprotrroph	0,005408036
s_Ceratobasidium_sp.	0,005408036
Animal Pathogen-Endophyte-Epiphyte-Plant Pathogen	0,002704018
s_Aureobasidium_pullulans	0,002704018
Saprófito	14,20961549
Undefined Saprotrroph	10,62408739
s_Coprinellus_sp.	3,123140988
s_Tetracladium_sp.	2,149694446
s_Cunninghamella_echinulata	1,430425612
s_Neosetophoma_sp.	1,41960954
s_Oliveonia_pauxilla	1,203288086
s_Myrothecium_sp.	0,34070629
s_Scoleobasidium_constrictum	0,273105835
s_Coprinellus_disseminatus	0,25147369
s_Apodus_sp.	0,19198529

s_Hyphodontia_sp.	0,146016981
s_Scolecobasidium_sp.	0,037856254
s_Cunninghamella_blakesleeana	0,032448218
s_Ascorhizoctonia_sp.	0,010816073
s_Erythrobasidium_hasegawianum	0,005408036
s_Articulospora_sp.	0,005408036
s_Dioszegia_fristingensis	0,002704018
Wood Saprotroph	1,679195285
s_Scytalidium_circinatum	0,662484452
s_Psathyrella_panaeoloides	0,594883998
s_Laetiporus_sulphureus	0,216321454
s_Lentinula_edodes	0,205505381
Dung Saprotroph-Wood Saprotroph	1,535882321
s_Ascobolus_sp.	1,535882321
Undefined Saprotroph-Wood Saprotroph	0,359634417
s_Pyrenochaeta_sp.	0,359634417
Dung Saprotroph-Undefined Saprotroph-Wood Saprotroph	0,010816073
s_Penicillium_sp.	0,008112055
s_Scopulariopsis_sp.	0,002704018
Saprófito-simbionte	20,91287653
Endophyte-Litter Saprotroph-Soil Saprotroph-Undefined Saprotroph	17,25163593
s_Mortierella_sp.	17,0542426
s_Mortierella_amoeboidea	0,197393326
Dung Saprotroph-Ectomycorrhizal	3,555783895
s_Trichophaea_sp.	3,555783895
Endophyte-Undefined Saprotroph	0,067600454
s_Annulohyphoxylon_sp.	0,067600454
Dung Saprotroph-Ectomycorrhizal-Litter Saprotroph-Undefined Saprotroph	0,037856254
s_Peziza_sp.	0,037856254
Simbionte	1,787356011
Animal Endosymbiont	1,003190741
s_Smittium_morbosum	1,003190741
Ectomycorrhizal	0,381266562
s_Epulothiza_sp.	0,229841545
s_Pisolithus_capsulifer	0,100048672
s_Cortinarius_sp.	0,051376345
Endophyte	0,256881726
s_Cadophora_luteo-olivacea	0,254177708
s_Capronia_sp.	0,002704018
Arbuscular Mycorrhizal	0,056784382
s_Rhizophagus_irregularis	0,043264291
s_Glomus_sp.	0,010816073
s_Claroideoglomus_sp.	0,002704018
Lichenized	0,045968309
s_Leptosphaerulina_trifolii	0,045968309
Orchid Mycorrhizal	0,043264291
s_Serendipita_sp.	0,043264291
Sin clasificar	7,211616461

-	7,211616461
s_Paraphoma_sp.	6,300362338
s_Parastagonospora_avenae	0,319074144
s_Setophaeosphaeria_sp.	0,270401817
s_Clohesyomyces_sp.	0,254177708
s_Oedocephalum_adhaerens	0,045968309
s_Gastrosporium_simplex	0,018928127
s_Chaetosphaeronema_sp.	0,002704018
Total general	100

**PTOLOMAIS
SENSOTERRA**

Nº Especies totales identificadas	86
Nº Patógenos	46
Nº Saprófitos	21
Nº Saprófitos-simbiontes	4
Nº Simbiontes	8
Nº especies no clasificadas	7

Etiquetas de fila	Suma de
Patógeno	AQ703I
	47,99490146
Plant Pathogen	12,19727424
s_Botryotinia_fuckeliana	4,88283165
s_Leptosphaeria_sp.	4,304343563
s_Leptosphaeria_biglobosa	1,987122921
s_Stagonosporopsis_dorenboschii	0,594829558
s_Pleospora_betae	0,323561133
s_Monographella_cucumerina	0,042487826
s_Truncatella_laurocerasi	0,026146354
s_Lirula_exigua	0,019609766
s_Ascochyta_fabae	0,006536589
s_Clonostachys_rosea	0,003268294
s_Penicillium_glabrum	0,003268294
s_Pythium_rostratum	0,003268294
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Soil Saprotrroph-Wood Saprotrroph	7,961564859
s_Fusarium_acuminatum	6,474490963
s_Fusarium_equiseti	1,487073896
Animal Pathogen-Endophyte-Epiphyte-Undefined Saprotrroph	7,507271954
s_Cryptococcus_paraflavus	4,062489787
s_Cryptococcus_podzolicus	1,889074092
s_Cryptococcus_aerius	1,523025133
s_Cryptococcus_peneaus	0,016341471
s_Cryptococcus_dimennae	0,009804883
s_Cryptococcus_diffluens	0,003268294
s_Cryptococcus_laurentii	0,003268294
Animal Pathogen	3,111416152

s_Hanseniaspora_uvarum	1,65048861
s_Lecanicillium_psalliotae	1,447854365
s_Lecanicillium_sp.	0,009804883
s_Metacordyceps_chlamydosporia	0,003268294
Animal Pathogen-Endosymbiont-Undefined Saprotroph	2,817269667
s_Candida_sp.	1,781220381
s_Candida_stellata	1,036049286
Animal Pathogen-Endophyte-Fungal Parasite-Lichen Parasite-Plant Pathogen-Wood Saprotroph	2,529659771
s_Nectria_ramulariae	2,529659771
Endophyte-Lichen Parasite-Plant Pathogen-Undefined Saprotroph	2,470830474
s_Pleospora_halimiones	2,470830474
Animal Pathogen-Endophyte-Plant Saprotroph-Soil Saprotroph	2,212635226
s_Sporothrix_inflata	2,212635226
Animal Pathogen-Endophyte-Fungal Parasite-Plant Pathogen-Wood Saprotroph	1,509951956
s_Acremonium_blochii	1,500147073
s_Acremonium_rutilum	0,009804883
Animal Pathogen-Undefined Saprotroph	1,392293362
s_Exophiala_equina	1,219073765
s_Malassezia_restricta	0,173219597
Endophyte-Fungal Parasite-Lichen Parasite-Plant Pathogen-Wood Saprotroph	1,313854299
s_Epicoccum_nigrum	1,313854299
Animal Pathogen-Endophyte-Plant Pathogen-Wood Saprotroph	1,003366343
s_Alternaria_soliaridae	1,000098049
s_Alternaria_atra	0,003268294
Plant Pathogen-Wood Saprotroph	0,578488087
s_Cladosporium_herbarum	0,490244142
s_Ganoderma_adsersum	0,088243945
Endophyte-Plant Pathogen	0,486975847
s_Camarosporium_sp.	0,486975847
Animal Endosymbiont-Animal Pathogen-Endophyte-Plant Pathogen-Undefined Saprotroph	0,323561133
s_Rhodotorula_laryngis	0,320292839
s_Rhodotorula_graminis	0,003268294
Ectomycorrhizal-Fungal Parasite	0,313756251
s_Tricholoma_batschii	0,313756251
Animal Pathogen-Wood Saprotroph	0,238585482
s_Aspergillus_terreus	0,238585482
Endophyte-Plant Pathogen-Wood Saprotroph	0,013073177
s_Torula_sp.	0,013073177
Animal Pathogen-Endophyte-Epiphyte-Plant Pathogen	0,013073177
s_Aureobasidium_pullulans	0,013073177
Saprófito	21,23737621
Undefined Saprotroph	16,35127627
s_Tetracladium_sp.	11,72337157
s_Saccharomyces_cerevisiae	1,820439912
s_Gymnopus_luxurians	1,585122724
s_Coprinopsis_atramentaria	0,424878256
s_Sporormiella_sp.	0,372585548
s_Leucopaxillus_gentianeus	0,179756185

s_Hyaloscypha_sp.	0,173219597
s_Erythrobasidium_hasegawianum	0,019609766
s_Ascorhizoctonia_sp.	0,019609766
s_Ramicandelaber_sp.	0,016341471
s_Arthrinium_pseudosinense	0,006536589
s_Lepista_personata	0,006536589
s_Absidia_glauca	0,003268294
Soil Saprotroph	2,640781776
s_Tulostoma_brumale	1,045854169
s_Bovista_promontorii	0,875902866
s_Bovista_plumbea	0,719024741
Wood Saprotroph	2,150537634
s_Stachybotrys_chartarum	1,170049351
s_Laetiporus_sulphureus	0,980488283
Dung Saprotroph	0,088243945
s_Cercophora_samala	0,088243945
Dung Saprotroph-Undefined Saprotroph-Wood Saprotroph	0,006536588
s_Scopulariopsis_sp.	0,003268294
s_Penicillium_sp.	0,003268294
Saprófito-simbiote	14,75634866
Endophyte-Litter Saprotroph-Soil Saprotroph-Undefined Saprotroph	14,74000719
s_Mortierella_sp.	12,21361571
s_Mortierella_exigua	2,496976828
s_Mortierella_rishiksha	0,029414648
Dung Saprotroph-Ectomycorrhizal	0,016341471
s_Trichophaea_sp.	0,016341471
Simbiote	4,278197208
Ectomycorrhizal	2,186488872
s_Sphaerosporella_sp.	1,01643952
s_Tuber_melanosporum	0,915122398
s_Efibulobasidium_sp.	0,254926954
Endophyte	1,954439977
s_Capronia_sp.	1,026244403
s_Metschnikowia_pulcherrima	0,911854103
s_Penicillium_brevicompactum	0,016341471
Arbuscular Mycorrhizal	0,111122005
s_Claroideoglomus_sp.	0,111122005
Lichenized	0,026146354
s_Verrucaria_andesiatica	0,026146354
Sin clasificar	11,73317646
-	11,73317646
s_Paraphoma_sp.	3,98078243
s_Chaetosphaeronema_sp.	2,683269602
s_Dactylonectria_alcacerensis	2,555806125
s_Schwanniomyces_occidentalis	1,29097624
s_Metschnikowia_chrysoperlae	1,215805471
s_Setophoma_terrestris	0,003268294
s_Hanseniaspora_thailandica	0,003268294

Total general**99,99999999****PTOLOMAIS****UNIT 5****Nº Especies totales identificadas** 76**Nº Patógenos** 37**Nº Saprófitos** 20**Nº Saprófitos-simbiontes** 2**Nº Simbiontes** 12**Nº especies no clasificadas** 5**Etiquetas de fila****Suma de AQ703J****Patógeno****23,43450602**

Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Soil Saprotrroph-Wood Saprotrroph	6,154671572
s_Fusarium_acuminatum	3,222963133
s_Fusarium_equiseti	2,759255001
s_Fusarium_pseudensiforme	0,172453438
Animal Pathogen-Endophyte-Plant Pathogen-Wood Saprotrroph	4,441634092
s_Alternaria_solani	4,422472599
s_Alternaria_alternata	0,019161493
Plant Pathogen	4,307503641
s_Botryotinia_fuckeliana	3,353261286
s_Leptosphaeria_sp.	0,770292021
s_Pleospora_betae	0,080478271
s_Leptosphaeria_biglobosa	0,042155285
s_Monographella_cucumerina	0,02682609
s_Haematonectria_haematococca	0,019161493
s_Lewia_infectoria	0,011496896
s_Penicillium_expansum	0,003832299
Animal Pathogen-Endophyte-Epiphyte-Undefined Saprotrroph	2,648118342
s_Cryptococcus_podzolicus	2,62512455
s_Cryptococcus_magnus	0,019161493
s_Cryptococcus_bhutanensis	0,003832299
Endophyte-Fungal Parasite-Plant Pathogen	1,417950487
s_Verticillium_dahliae	1,417950487
Endophyte-Lichen Parasite-Plant Pathogen-Undefined Saprotrroph	1,069211313
s_Pleospora_halimiones	1,069211313
Dung Saprotrroph-Plant Pathogen	0,639993868
s_Coprinus_phaeopunctatus	0,639993868
Animal Pathogen-Endophyte-Fungal Parasite-Plant Pathogen-Wood Saprotrroph	0,521192611
s_Acremonium_persicinum	0,325745382
s_Acremonium_alternatum	0,176285736
s_Acremonium_stromaticum	0,019161493
Endophyte-Fungal Parasite-Lichen Parasite-Plant Pathogen-Wood Saprotrroph	0,502031118
s_Epicoccum_nigrum	0,502031118
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Wood Saprotrroph	0,341074577

s_Cladosporium_exasperatum	0,341074577
Animal Endosymbiont-Animal Pathogen-Endophyte-Plant Pathogen-Undefined Saprotrroph	0,310416188
s_Rhodotorula_mucilaginos	0,310416188
Plant Pathogen-Wood Saprotrroph	0,256764007
s_Cladosporium_herbarum	0,256764007
Animal Pathogen	0,241434813
s_Lecanicillium_psalliotae	0,226105618
s_Lecanicillium_sp.	0,011496896
s_Hanseniaspora_uvarum	0,003832299
Endophyte-Plant Pathogen	0,19161493
s_Boeremia_exigua	0,149459646
s_Camarosporium_sp.	0,02682609
s_Diaporthes_gulyae	0,015329194
Animal Pathogen-Dung Saprotrroph-Endophyte-Epiphyte-Plant Saprotrroph-Wood Saprotrroph	0,153291945
s_Chaetomium_sp.	0,153291945
Animal Pathogen-Undefined Saprotrroph	0,145627347
s_Malassezia_sp.	0,076645972
s_Malassezia_restricta	0,068981375
Endophyte-Plant Pathogen-Undefined Saprotrroph	0,061316778
s_Pleospora_herbarum	0,061316778
Epiphyte-Leaf Saprotrroph-Lichen Parasite-Lichenized-Plant Pathogen-Wood Saprotrroph	0,030658389
s_Athelia_sp.	0,030658389
Saprófito	41,06307964
Undefined Saprotrroph	34,37955085
s_Antarctomyces_psychrotrophicus	16,04583429
s_Ascorhizoctonia_sp.	11,68851077
s_Tetracladium_sp.	3,916609182
s_Coprinellus_sp.	0,655323063
s_Cunninghamella_echinulata	0,475205028
s_Myrothecium_sp.	0,471372729
s_Erythrobasidium_hasegawianum	0,429217445
s_Saccharomyces_cerevisiae	0,306583889
s_Geastrum_minimum	0,157124243
s_Ramicandelaber_sp.	0,065149076
s_Preussia_sp.	0,057484479
s_Dioszegia_hungarica	0,042155285
s_Lophiostoma_sp.	0,030658389
s_Biscogniauxia_nummularia	0,019161493
s_Phaeosphaeria_sp.	0,015329194
s_Pseudeurotium_hygrophilum	0,003832299
Wood Saprotrroph	5,606652871
s_Psathyrella_effibulata	5,598988273
s_Stachybotrys_echinata	0,003832299
s_Aspergillus_ustus	0,003832299
Dung Saprotrroph-Wood Saprotrroph	1,07687591
s_Ascobolus_sp.	1,07687591

Saprófito-simbionte	10,33187706
Dung Saprotroph-Ectomycorrhizal-Litter Saprotroph-Undefined Saprotroph s_Peziza_sp.	8,411895455
Endophyte-Litter Saprotroph-Soil Saprotroph-Undefined Saprotroph s_Mortierella_sp.	1,919981605
Simbionte	10,02912547
Ectomycorrhizal s_Pisolithus_arhizus	4,686901204
s_Cortinarius_sp.	4,460795585
s_Tuber_melanosporum	0,172453438
s_Rhizopogon_roseolus	0,049819882
s_Rhizopogon_roseolus	0,003832299
Arbuscular Mycorrhizal	4,491453974
s_Paraglomus_sp.	4,242354564
s_Diversispora_gibbosa	0,199279528
s_Claroideoglomus_sp.	0,049819882
Lichenized	0,502031118
s_Caloplaca_obscurella	0,30275159
s_Leptosphaerulina_trifolii	0,199279528
Animal Endosymbiont	0,260596306
s_Smittium_morbosum	0,260596306
Endophyte	0,088142868
s_Cadophora_luteo-olivacea	0,080478271
s_Penicillium_brevicompactum	0,007664597
Sin clasificar	15,14141182
-	15,14141182
s_Paraphoma_sp.	13,83459799
s_Clohesyomyces_sp.	0,66298766
s_Chaetosphaeronema_sp.	0,609335479
s_Dactylonectria_alcacerensis	0,02682609
s_Paraphoma_chrysanthemicola	0,007664597
Total general	100

PTOLOMAIS NEXT TO SENSOTERRA

Nº Especies totales identificadas	110
Nº Patógenos	58
Nº Saprófitos	26
Nº Saprófitos-simbiontes	8
Nº Simbiontes	11
Nº especies no clasificadas	7

Etiquetas de fila	Suma de AQ703K
Patógeno	42,60293544
Animal Pathogen-Endophyte-Epiphyte-Undefined Saprotroph s_Cryptococcus_aerius	9,901718836
s_Cryptococcus_terreus	4,524397108
s_Cryptococcus_terreus	1,099709919
s_Cryptococcus_podzolicus	0,974152487

s_Cryptococcus_sp.	0,917868121
s_Cryptococcus_magnus	0,636446292
s_Cryptococcus_laurentii	0,597480192
s_Cryptococcus_bhutanensis	0,528207126
s_Cryptococcus_chernovii	0,441615794
s_Cryptococcus_wieringae	0,103909599
s_Cryptococcus_terricola	0,038966099
s_Cryptococcus_victoriae	0,038966099
Animal Pathogen	9,07044205
s_Hanseniaspora_uvarum	5,022297268
s_Torulasporea_delbrueckii	3,338095857
s_Coniochaeta_cateniformis	0,324717496
s_Lachancea_thermotolerans	0,225137464
s_Rotiferophthora_angustispora	0,151534831
s_Aspergillus_insuetus	0,004329567
s_Hirsutella_minnesotensis	0,004329567
Plant Pathogen	7,840845131
s_Botryotinia_fuckeliana	2,606399099
s_Penicillium_glabrum	1,082391653
s_Penicillium_expansum	0,822617656
s_Bipolaris_eleusines	0,580161926
s_Venturia_hystrionoides	0,51088886
s_Uncinula_necator	0,402649695
s_Monographella_cucumerina	0,359354029
s_Cylindrocarpon_ianthothele	0,346365329
s_Phaeoacremonium_hungaricum	0,285751396
s_Truncatella_laurocerasi	0,277092263
s_Haematonectria_haematococca	0,272762696
s_Clonostachys_rosea	0,173182664
s_Cochliobolus_geniculatus	0,121227865
Animal Pathogen-Endosymbiont-Undefined Saprotroph	3,454994155
s_Candida_stellata	3,095640126
s_Candida_fluviatilis	0,359354029
Animal Pathogen-Endophyte-Fungal Parasite-Plant Pathogen-Wood Saprotroph	1,705849244
s_Acremonium_persicinum	0,653764558
s_Acremonium_stromaticum	0,632116725
s_Acremonium_alternatum	0,220807897
s_Acremonium_sp.	0,199160064
Animal Pathogen-Dung Saprotroph-Endophyte-Epiphyte-Plant Saprotroph-Wood Saprotroph	1,606269212
s_Chaetomium_sp.	1,606269212
Plant Pathogen-Wood Saprotroph	1,57163268
s_Cladosporium_herbarum	1,515348314
s_Ganoderma_lingzhi	0,056284366
Animal Pathogen-Endophyte-Epiphyte-Plant Pathogen	1,363813482
s_Aureobasidium_pullulans	1,363813482
Endophyte-Fungal Parasite-Plant Pathogen	1,25124475
s_Verticillium_dahliae	1,25124475

Endophyte-Fungal Parasite-Lichen Parasite-Plant Pathogen-Wood Saprotroph	1,242585617
s_Epicoccum_nigrum	1,242585617
Animal Pathogen-Undefined Saprotroph	1,047755119
s_Aspergillus_fumigatus	0,49790016
s_Malassezia_restricta	0,441615794
s_Malassezia_sp.	0,095250465
s_Exophiala_equina	0,0129887
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Wood Saprotroph	0,883231589
s_Cladosporium_exasperatum	0,883231589
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Soil Saprotroph-Wood Saprotroph	0,684071525
s_Fusarium_acuminatum	0,502229727
s_Fusarium_pseudensiforme	0,181841798
Animal Pathogen-Endophyte-Fungal Parasite-Lichen Parasite-Plant Pathogen-Wood Saprotroph	0,506559293
s_Nectria_ramulariae	0,506559293
Bryophyte Parasite-Leaf Saprotroph-Soil Saprotroph-Undefined Saprotroph-Wood Saprotroph	0,298740096
s_Galerina_laevis	0,298740096
Animal Pathogen-Endophyte-Plant Saprotroph-Soil Saprotroph-Undefined Saprotroph-Wood Saprotroph	0,086591332
s_Aspergillus_piperis	0,086591332
Fungal Parasite-Litter Saprotroph	0,038966099
s_Sporobolomyces_ruberrimus	0,038966099
Animal Pathogen-Endophyte-Plant Pathogen-Wood Saprotroph	0,0259774
s_Alternaria_alternata	0,0259774
Endophyte-Plant Pathogen	0,0129887
s_Thermomyces_lanuginosus	0,0129887
Animal Pathogen-Animal Endosymbiont	0,004329567
s_Issatchenkia_terricola	0,004329567
Endophyte-Dung Saprotroph-Lichen Parasite-Litter Saprotroph-Plant Pathogen-Soil Saprotroph-Wood Saprotroph	0,004329567
s_Phoma_crystallifera	0,004329567
Saprófito	25,56176127
Undefined Saprotroph	21,27116076
s_Geminibasidium_sp.	6,65454388
s_Saccharomyces_cerevisiae	5,706368792
s_Lycoperdon_pratense	3,32077759
s_Neobulgaria_sp.	2,173442438
s_Conocybe_dunensis	1,000129887
s_Tetracladium_sp.	0,506559293
s_Pseudeurotium_hygrophilum	0,49790016
s_Auricularia_sp.	0,424297528
s_Hyphodontia_setulosa	0,337706196
s_Preussia_sp.	0,316058363
s_Talaromyces_purpureogenus	0,151534831
s_Pyronema_sp.	0,151534831
s_Cunninghamella_echinulata	0,008659133
s_Erythrobasidium_hasegawianum	0,008659133
s_Absidia_glauca	0,008659133

s_Gymnopus_alkalivirens	0,004329567
Dung Saprotroph-Undefined Saprotroph-Wood Saprotroph	1,870372775
s_Penicillium_meridianum	0,645105425
s_Penicillium_sp.	0,554184526
s_Penicillium_adametzoides	0,342035762
s_Penicillium_bilaiae	0,329047062
Wood Saprotroph	1,472052648
s_Simocybe_sp.	0,969822921
s_Stachybotrys_chartarum	0,342035762
s_Laetiporus_sulphureus	0,160193965
Undefined Saprotroph-Wood Saprotroph	0,515218427
s_Pyrenochaeta_sp.	0,515218427
Dung Saprotroph-Undefined Saprotroph	0,424297528
s_Chaetomidium_galaicum	0,424297528
Litter Saprotroph	0,008659133
s_Udeniomyces_megalosporus	0,008659133
Saprófito-simbionte	13,49092956
Endophyte-Litter Saprotroph-Soil Saprotroph-Undefined Saprotroph	11,92795601
s_Mortierella_sp.	8,195869593
s_Mortierella_elongata	1,714508378
s_Mortierella_exigua	1,363813482
s_Mortierella_clonocystis	0,649434992
s_Mortierella_rishiksha	0,004329567
Ectomycorrhizal-Undefined Saprotroph-Wood Saprotroph	1,220937784
s_Morchella_importuna	1,220937784
Dung Saprotroph-Ectomycorrhizal-Litter Saprotroph-Undefined Saprotroph	0,324717496
s_Peziza_sp.	0,324717496
Animal Endosymbiont-Undefined Saprotroph	0,017318266
s_Pichia_membranifaciens	0,017318266
Simbionte	14,24860371
Orchid Mycorrhizal	4,494090142
s_Serendipita_sp.	3,000389661
s_Serendipita_herbamans	1,493700481
Arbuscular Mycorrhizal	3,035026194
s_Paraglomus_sp.	3,035026194
Endophyte	2,649694765
s_Metschnikowia_pulcherrima	2,407239035
s_Penicillium_brevicompactum	0,24245573
Ectomycorrhizal	2,337965969
s_Epulothiza_sp.	0,822617656
s_Pisolithus_arhizus	0,506559293
s_Thelephora_sp.	0,450274927
s_Efibulobasidium_sp.	0,389660995
s_Tuber_melanosporum	0,168853098
Ectomycorrhizal-Orchid Mycorrhizal-Root Associated Biotroph	1,731826644
s_Sebacina_sp.	1,731826644
Sin clasificar	4,095770014
-	4,095770014

s_Metschnikowia_chrysoperlae	1,155994285
s_Dactylonectria_alcacerensis	0,826947223
s_Metschnikowia_sp.	0,666753258
s_Letendreaa_sp.	0,619128025
s_Hanseniaspora_osmophila	0,389660995
s_Hanseniaspora_valbyensis	0,246785297
s_Holtermannia_corniformis	0,190500931
Total general	100

PTOLOMAIS

BLACK LAND UPPER

Nº Especies totales identificadas	135
Nº Patógenos	61
Nº Saprófitos	45
Nº Saprófitos-simbiontes	4
Nº Simbiontes	13
Nº especies no clasificadas	12

Etiquetas de fila	Suma de AQ703L
Patógenos	60,15094641
Plant Pathogen	21,49189362
s_Leptosphaeria_sp.	10,39254053
s_Clonostachys_rosea	5,209248463
s_Truncatella_laurocerasi	2,815270346
s_Phaeoacremonium_hungaricum	1,191997444
s_Curvularia_australiensis	0,696829327
s_Uromyces_punctatus	0,403322418
s_Leptosphaeria_maculans	0,261560578
s_Monographella_cucumerina	0,111812156
s_Olpidium_brassicae	0,101828927
s_Curvularia_inaequalis	0,079865825
s_Lewia_infectoria	0,069882597
s_Claviceps_purpurea	0,041929558
s_Botryotinia_fuckeliana	0,033942976
s_Penicillium_glabrum	0,021963102
s_Podosphaera_astericola	0,021963102
s_Pythium_rostratum	0,013976519
s_Pleospora_betae	0,013976519
s_Lectera_colletotrichoides	0,009983228
Animal Pathogen-Endophyte-Plant Pathogen-Wood Saprotrroph	19,48127147
s_Alternaria_solaridae	19,07794905
s_Alternaria_atra	0,365386151
s_Alternaria_alternata	0,037936267
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Soil Saprotrroph-Wood Saprotrroph	12,29135053
s_Fusarium_equiseti	6,539014456
s_Fusarium_pseudensiforme	2,571679578
s_Fusarium_acuminatum	2,56169635

s_Fusarium_sp.	0,61297021
s_Fusarium_beomiforme	0,005989937
Endophyte-Lichen Parasite-Plant Pathogen-Undefined Saprotroph	2,409951282
s_Pleospora_halimiones	2,409951282
Animal Pathogen-Endophyte-Epiphyte-Undefined Saprotroph	1,15805447
s_Cryptococcus_magnus	0,495168118
s_Cryptococcus_adeliensis	0,177701462
s_Cryptococcus_dimennae	0,165721588
s_Cryptococcus_diffluens	0,113808801
s_Cryptococcus_chernovii	0,089849054
s_Cryptococcus_podzolicus	0,069882597
s_Cryptococcus_laurentii	0,039932913
s_Cryptococcus_victoriae	0,005989937
Endophyte-Fungal Parasite-Lichen Parasite-Plant Pathogen-Wood Saprotroph	0,571040652
s_Epicoccum_nigrum	0,571040652
Animal Pathogen-Undefined Saprotroph	0,477198307
s_Malassezia_restricta	0,467215079
s_Exophiala_sp.	0,009983228
Plant Pathogen-Wood Saprotroph	0,47520166
s_Cladosporium_herbarum	0,359396214
s_Ganoderma_adspersum	0,079865825
s_Peniophora_sp.	0,035939621
Animal Pathogen	0,473205016
s_Lecanicillium_psalliotae	0,47120837
s_Hanseniaspora_uvarum	0,001996646
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Wood Saprotroph	0,347416341
s_Cladosporium_exasperatum	0,347416341
Endophyte-Plant Pathogen-Undefined Saprotroph	0,325453239
s_Pleospora_herbarum	0,325453239
Animal Pathogen-Plant Pathogen-Undefined Saprotroph	0,169714879
s_Didymella_urticicola	0,135771903
s_Coniosporium_sp.	0,033942976
Plant Pathogen-Undefined Parasite-Undefined Saprotroph	0,143758486
s_Spizellomyces_acuminatus	0,143758486
Animal Pathogen-Clavicipitaceous Endophyte-Fungal Parasite	0,089849053
s_Cordyceps_bassiana	0,085855762
s_Tolypocladium_parasiticum	0,003993291
Animal Pathogen-Endophyte-Epiphyte-Plant Pathogen	0,049916141
s_Aureobasidium_pullulans	0,049916141
Animal Endosymbiont-Animal Pathogen-Endophyte-Plant Pathogen-Undefined Saprotroph	0,04592285
s_Rhodotorula_aurantiaca	0,027953039
s_Rhodotorula_mucilaginoso	0,017969811
Ectomycorrhizal-Fungal Parasite	0,043926204
s_Tricholoma_scalpturatum	0,043926204
Endomycorrhizal-Plant Pathogen-Undefined Saprotroph	0,033942976
s_Ceratobasidium_sp.	0,033942976
Fungal Parasite-Litter Saprotroph	0,019966456
s_Sporobolomyces_sp.	0,019966456

Animal Pathogen-Endophyte-Fungal Parasite-Plant Pathogen-Wood Saprotrroph	0,017969811
s_Acremonium_stromaticum	0,017969811
Endophyte-Fungal Parasite-Plant Pathogen	0,017969811
s_Verticillium_dahliae	0,017969811
Endophyte-Plant Pathogen	0,009983229
s_Diaporthe_gulyae	0,007986583
s_Diaporthe_ambigua	0,001996646
Animal Pathogen-Endophyte-Plant Saprotrroph-Soil Saprotrroph-Undefined Saprotrroph-Wood Saprotrroph	0,005989937
s_Aspergillus_piperis	0,005989937
Saprófito	11,08737322
Undefined Saprotrroph	7,511380883
s_Cunninghamella_echinulata	1,94872614
s_Tetracladium_sp.	1,195990736
s_Catenaria_anguillulae	0,780688443
s_Coprinellus_sabulicola	0,591007108
s_Coprinellus_sp.	0,587013817
s_Ramicandelaber_sp.	0,553070841
s_Antarctomyces_psychrotrophicus	0,299496845
s_Spiromyces_sp.	0,235604185
s_Xylodon_sambuci	0,21963102
s_Ascorhizoctonia_sp.	0,213641083
s_Cristinia_mucida	0,15573836
s_Myrothecium_sp.	0,153741714
s_Coprinellus_radians	0,103825573
s_Parasola_conopilus	0,091845699
s_Volvopluteus_gloiocephalus	0,067885952
s_Articulospora_sp.	0,055906078
s_Rhodocollybia_butyracea	0,049916141
s_Gymnopus_dryophilus	0,047919495
s_Preussia_sp.	0,029949685
s_Mucor_hiemalis	0,029949685
s_Clavaria_californica	0,025956393
s_Mucor_brunneogriseus	0,023959748
s_Coniocessia_nodulisporioides	0,013976519
s_Preussia_flanaganii	0,011979874
s_Lophiostoma_sp.	0,007986583
s_Hydropisphaera_erubescens	0,007986583
s_Rhodospiridium_babjevae	0,005989937
s_Gymnostellatospora_frigida	0,001996646
Wood Saprotrroph	1,495487581
s_Thielaviopsis_basicola	0,598993691
s_Psathyrella_panaeoloides	0,39333919
s_Lentinula_edodes	0,169714879
s_Laetiporus_sulphureus	0,14176184
s_Aporospora_terricola	0,07786918
s_Stachybotrys_chartarum	0,057902723
s_Scytalidium_circinatum	0,055906078

Soil Saprotroph	0,950403322
s_Bovista_furfuracea	0,575033943
s_Bovista_promontorii	0,249580704
s_Disciseda_candida	0,081862471
s_Lepiota_brunneoincarnata	0,043926204
Dung Saprotroph	0,614966855
s_Cercophora_sp.	0,569044006
s_Zopfiella_sp.	0,041929558
s_Schizothecium_carpinicola	0,003993291
Undefined Saprotroph-Wood Saprotroph	0,319463302
s_Chrysosporium_pilosum	0,319463302
Dung Saprotroph-Wood Saprotroph	0,193674627
s_Ascobolus_sp.	0,193674627
Dung Saprotroph-Undefined Saprotroph-Wood Saprotroph	0,001996646
s_Penicillium_sp.	0,001996646
Saprófito-simbionte	12,64076351
Endophyte-Litter Saprotroph-Soil Saprotroph-Undefined Saprotroph	11,05942017
s_Mortierella_sp.	11,05942017
Dung Saprotroph-Endophyte-Litter Saprotroph-Undefined Saprotroph	1,203977318
s_Podospora_sp.	1,203977318
Endophyte-Soil Saprotroph	0,355402923
s_Bartalinia_robillardoides	0,355402923
Animal Endosymbiont-Undefined Saprotroph	0,021963102
s_Pichia_membranifaciens	0,021963102
Simbionte	4,332721029
Arbuscular Mycorrhizal	2,453877486
s_Diversispora_gibbosa	2,45188084
s_Rhizophagus_irregularis	0,001996646
Ectomycorrhizal	1,864867023
s_Cortinarius_sp.	0,543087613
s_Pisolithus_arhizus	0,42528552
s_Epulothiza_sp.	0,2056545
s_Tomentella_sp.	0,18768469
s_Rhizopogon_roseolus	0,175704816
s_Cortinarius_aprinus	0,117802092
s_Suillus_bellinii	0,089849054
s_Naucoria_tantilla	0,079865825
s_Terfezia_sp.	0,039932913
Endophyte	0,01397652
s_Metschnikowia_pulcherrima	0,007986583
s_Cladosporium_sphaerospermum	0,005989937
Sin clasificar	11,78819583
-	11,78819583
s_Oedocephalum_adhaerens	5,554668157
s_Paraphoma_sp.	5,145355802
s_Oedocephalum_sp.	0,433272103
s_Setophaeosphaeria_sp.	0,169714879
s_Setophoma_terrestris	0,163724942

s_Paraphoma_chrysanthemicola	0,119798738
s_Dactylonectria_alcacerensis	0,105822219
s_Chaetosphaeronema_sp.	0,035939621
s_Globisporangium_carolinianum	0,033942976
s_Cryptovalsa_ampelina	0,015973165
s_Clohesyomyces_sp.	0,007986583
s_Leptospora_rubella	0,001996646
Total general	100

PTOLOMAIS

OBSERVATORY (entiendo que se corresponde con la que en 2017 se llamaba upper plot)

Nº Especies totales identificadas	43
Nº Patógenos	19
Nº Saprófitos	8
Nº Saprófitos-simbiontes	2
Nº Simbiontes	9
Nº especies no clasificadas	5

Etiquetas de fila	Suma de AQ703M
Patógeno	29,51648046
Animal Pathogen-Endophyte-Epiphyte-Undefined Saprotroph	10,2788466
s_Cryptococcus_aerius	8,087246766
s_Cryptococcus_bhutanensis	2,191599833
Plant Pathogen	7,782439386
s_Typhula_japonica	3,705206064
s_Venturia_pyrina	1,937786843
s_Hortaea_werneckii	1,559964768
s_Clonostachys_rosea	0,574845858
s_Botryotinia_fuckeliana	0,00347689
s_Penicillium_expansum	0,001158963
Animal Pathogen-Endophyte-Fungal Parasite-Plant Pathogen-Wood Saprotroph	4,822446804
s_Acremonium_persicinum	4,822446804
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Wood Saprotroph	2,907839229
s_Cladosporium_exasperatum	2,907839229
Plant Pathogen-Wood Saprotroph	2,716610264
s_Cladosporium_herbarum	2,716610264
Animal Pathogen-Endophyte-Epiphyte-Plant Pathogen	0,519215614
s_Aureobasidium_pullulans	0,519215614
Animal Pathogen-Undefined Saprotroph	0,456631589
s_Malassezia_restricta	0,456631589
Animal Pathogen-Endophyte-Plant Pathogen-Wood Saprotroph	0,020861341
s_Alternaria_alternata	0,019702378
s_Alternaria_soliaridae	0,001158963
Animal Pathogen-Endosymbiont-Undefined Saprotroph	0,006953781
s_Candida_apicola	0,004635854
s_Candida_stellata	0,002317927
Animal Pathogen	0,00347689

s_Hanseniaspora_uvarum	0,00347689
Endophyte-Fungal Parasite-Lichen Parasite-Plant Pathogen-Wood Saprotroph	0,001158963
s_Epicoccum_nigrum	0,001158963
Saprófito	20,247091
Wood Saprotroph	9,391080618
s_Lentinula_edodes	7,634092068
s_Laetiporus_sulphureus	1,724537574
s_Trametes_versicolor	0,032450976
Soil Saprotroph	5,756571323
s_Lepiota_brunneoincarnata	5,756571323
Undefined Saprotroph	5,099439061
s_Mucor_brunneogriseus	3,444439293
s_Scedosporium_dehoogii	1,646887024
s_Cunninghamella_echinulata	0,005794817
s_Ascorhizoctonia_sp.	0,002317927
Saprófito-Simbionte	0,004635853
Endophyte-Litter Saprotroph-Soil Saprotroph-Undefined Saprotroph	0,004635853
s_Mortierella_sp.	0,00347689
s_Mortierella_elongata	0,001158963
Simbionte	49,89685225
Ectomycorrhizal	44,44392935
s_Pisolithus_arhizus	36,57688563
s_Tomentella_sp.	7,864725789
s_Amanita_ochroterrea	0,001158963
s_Efibulobasidium_sp.	0,001158963
Orchid Mycorrhizal	4,245283019
s_Serendipita_herbamans	4,245283019
Endophyte	1,191414399
s_Trichoderma_asperellum	1,190255436
s_Metschnikowia_pulcherrima	0,001158963
Arbuscular Mycorrhizal	0,016225488
s_Rhizophagus_irregularis	0,013907561
s_Glomus_sp.	0,002317927
Sin clasificar	0,334940428
-	0,334940428
s_Clohesyomyces_sp.	0,329145612
s_Saccharomycopsis_crataegensis	0,002317927
s_Schwanniomyces_occidentalis	0,001158963
s_Hannaella_oryzae	0,001158963
s_Oedocephalum_adhaerens	0,001158963
(en blanco)	
(en blanco)	
(en blanco)	
Total general	99,99999999

SLOPED AREA

Nº Especies totales identificadas	37
Nº Patógenos	20
Nº Saprófitos	9
Nº Saprófitos-simbiontes	1
Nº Simbiontes	6
Nº especies no clasificadas	1

Etiquetas de fila	Suma de AQ703N
Patógenos	49,65363351
Animal Pathogen-Undefined Saprotroph	18,32744954
s_Malassezia_restricta	18,32578432
s_Malassezia_sp.	0,001665223
Endophyte-Fungal Parasite-Lichen Parasite-Plant Pathogen-Wood Saprotroph	11,55498568
s_Epicoccum_nigrum	11,55498568
Animal Pathogen-Endophyte-Epiphyte-Undefined Saprotroph	10,21281556
s_Cryptococcus_aerius	6,009791514
s_Cryptococcus_podzolicus	4,201358822
s_Cryptococcus_laurentii	0,001665223
Animal Pathogen	4,4977686
s_Clavispora_lusitaniae	4,496103377
s_Trichosporon_mycotoxinovorans	0,001665223
Endophyte-Fungal Parasite-Plant Pathogen	3,034037168
s_Verticillium_dahliae	3,034037168
Plant Pathogen-Wood Saprotroph	1,851728502
s_Cephalosporium_serrae	1,851728502
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Wood Saprotroph	0,146539666
s_Cladosporium_exasperatum	0,146539666
Animal Pathogen-Endophyte-Plant Pathogen-Wood Saprotroph	0,00999134
s_Alternaria_alternata	0,008326117
s_Alternaria_atra	0,001665223
Animal Pathogen-Endosymbiont-Undefined Saprotroph	0,00999134
s_Candida_stellata	0,008326117
s_Candida_subhashii	0,001665223
Plant Pathogen	0,001665223
s_Penicillium_glabrum	0,001665223
Epiphyte-Plant Pathogen-Wood Saprotroph	0,001665223
s_Diplodia_seriata	0,001665223
Animal Pathogen-Endophyte-Epiphyte-Plant Pathogen	0,001665223
s_Aureobasidium_pullulans	0,001665223
Endophyte-Plant Pathogen-Undefined Saprotroph	0,001665223
s_Pleospora_herbarum	0,001665223
Endophyte-Dung Saprotroph-Lichen Parasite-Litter Saprotroph-Plant Pathogen-Soil Saprotroph-Wood Saprotroph	0,001665223
s_Phoma_crystallifera	0,001665223
Saprófitos	39,76553653
Undefined Saprotroph	32,05055618
s_Ascorhizoctonia_sp.	19,04682608
s_Tetracladium_sp.	6,91400786

s_Myrothecium_sp.	3,546925997
s_Scleropezicula_sp.	2,527809232
s_Cunninghamella_echinulata	0,011656564
s_Umbelopsis_autotrophica	0,001665223
s_Gyoerffyella_entomobryoides	0,001665223
Leaf Saprotroph	7,713315127
s_Cystofilobasidium_macerans	7,713315127
Wood Saprotroph	0,001665223
s_Scytalidium_sp.	0,001665223
Saprófitos-simbiontes	7,743289149
Endophyte-Litter Saprotroph-Soil Saprotroph-Undefined Saprotroph	7,743289149
s_Mortierella_sp.	7,743289149
Simbionte	2,417904481
Ectomycorrhizal-Orchid Mycorrhizal-Root Associated Biotroph	2,304669287
s_Sebacina_sp.	2,304669287
Arbuscular Mycorrhizal	0,098248184
s_Rhizophagus_irregularis	0,093252514
s_Glomus_sp.	0,00499567
Endophyte	0,008326117
s_Penicillium_brevicompactum	0,008326117
Epiphyte	0,00499567
s_Meyerozyma_caribbica	0,00499567
Ectomycorrhizal	0,001665223
s_Amanita_ochroterrea	0,001665223
Sin clasificar	0,419636315
-	0,419636315
s_Clohesyomyces_sp.	0,419636315
Total general	99,99999999

**PTOLOMAIS
NEXT TO GREY LAND**

Nº Especies totales identificadas	187
Nº Patógenos	88
Nº Saprófitos	61
Nº Saprófitos-simbiontes	6
Nº Simbiontes	23
Nº especies no clasificadas	9

Etiquetas de fila	Suma de AQ7030
Patógenos	35,28371208
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Soil Saprotroph- Wood Saprotroph	10,56606341
s_Fusarium_equiseti	6,075656552
s_Fusarium_acuminatum	4,490406858
Plant Pathogen	8,590737971
s_Leptosphaeria_sp.	5,295505057
s_Stagonosporopsis_dorenboschii	1,018279131

s_Lewia_infectoria	0,458112215
s_Pythium_rostratum	0,358325396
s_Bipolaris_eleusines	0,217716696
s_Botryotinia_fuckeliana	0,156483875
s_Cercospora_apii	0,156483875
s_Monographella_cucumerina	0,149680229
s_Leptosphaeria_biglobosa	0,127001406
s_Seimatosporium_vitis	0,124733524
s_Curvularia_sp.	0,102054701
s_Monosporascus_eutypoides	0,081643761
s_Ascochyta_fabae	0,074840114
s_Puccinia_acroptili	0,043089763
s_Urocystis_agropyri	0,040821881
s_Penicillium_glabrum	0,029482469
s_Clonostachys_rosea	0,024946705
s_Cochliobolus_microlaenae	0,022678823
s_Leptosphaeria_maculans	0,022678823
s_Lectera_colletotrichoides	0,018143058
s_Truncatella_laurocerasi	0,015875176
s_Olpidium_brassicae	0,015875176
s_Phaeoacremonium_hungaricum	0,015875176
s_Uromyces_punctatus	0,009071529
s_Sphacelotheca_reiliana	0,006803647
s_Tilletia_controversa	0,004535765
Animal Pathogen-Endophyte-Fungal Parasite-Plant Pathogen-Wood Saprotrroph	2,99133669
s_Acremonium_persicinum	2,984533043
s_Acremonium_rutilum	0,004535765
s_Acremonium_stromaticum	0,002267882
Animal Pathogen-Endophyte-Plant Pathogen-Wood Saprotrroph	2,528688711
s_Alternaria_soliaridae	1,977593323
s_Alternaria_atra	0,494398331
s_Alternaria_alternata	0,031750352
s_Alternaria_leptinellae	0,024946705
Endophyte-Plant Pathogen-Undefined Saprotrroph	2,399419422
s_Pleospora_herbarum	2,399419422
Animal Endosymbiont-Animal Pathogen-Undefined Saprotrroph	2,342722366
s_Basidiobolus_ranarum	1,818841566
s_Basidiobolus_magnus	0,5238808
Endomycorrhizal-Plant Pathogen-Undefined Saprotrroph	1,741733569
s_Ceratobasidium_sp.	1,741733569
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Wood Saprotrroph	0,898081372
s_Cladosporium_exasperatum	0,898081372
Plant Pathogen-Wood Saprotrroph	0,84592008
s_Cladosporium_herbarum	0,542023858
s_Stemphylium_loti	0,099786819
s_Coniothyrium_sidae	0,09071529
s_Ganoderma_adpersum	0,072572232
s_Ganoderma_lingzhi	0,024946705

s_Phellinus_ribis	0,015875176
Animal Pathogen-Endophyte-Epiphyte-Undefined Saprotroph	0,648614324
s_Cryptococcus_magnus	0,23132399
s_Cryptococcus_dimennae	0,099786819
s_Cryptococcus_laurentii	0,088447408
s_Cryptococcus_chernovii	0,068036468
s_Cryptococcus_aerius	0,063500703
s_Cryptococcus_terreus	0,029482469
s_Cryptococcus_bhutanensis	0,024946705
s_Cryptococcus_wieringae	0,02041094
s_Cryptococcus_sp.	0,011339411
s_Cryptococcus_podzolicus	0,011339411
Endophyte-Lichen Parasite-Plant Pathogen-Undefined Saprotroph	0,589649385
s_Pleospora_halimiones	0,589649385
Endophyte-Fungal Parasite-Lichen Parasite-Plant Pathogen-Wood Saprotroph	0,36286116
s_Epicoccum_nigrum	0,36286116
Endophyte-Plant Pathogen	0,176894816
s_Boeremia_exigua	0,040821881
s_Diaporthe_ambigua	0,029482469
s_Camarosporium_sp.	0,029482469
s_Rhizopycnis_vagum	0,027214587
s_Colletotrichum_dematum	0,024946705
s_Colletotrichum_incanum	0,013607294
s_Diaporthe_gulyae	0,011339411
Animal Pathogen	0,120197759
s_Lecanicillium_psalliotae	0,072572232
s_Medicopsis_romeroi	0,027214587
s_Beauveria_pseudobassiana	0,011339411
s_Hanseniaspora_uvarum	0,006803647
s_Aspergillus_sydowii	0,002267882
Animal Pathogen-Plant Pathogen-Undefined Saprotroph	0,088447408
s_Didymella_sp.	0,065768585
s_Coniosporium_apollinis	0,022678823
Animal Pathogen-Endophyte-Epiphyte-Plant Pathogen	0,074840114
s_Aureobasidium_pullulans	0,074840114
Plant Pathogen-Undefined Saprotroph	0,047625527
s_Rhizopus_oryzae	0,047625527
Endophyte-Plant Pathogen-Wood Saprotroph	0,045357645
s_Periconia_sp.	0,045357645
Animal Pathogen-Undefined Saprotroph	0,031750352
s_Malassezia_restricta	0,031750352
Dung Saprotroph-Plant Pathogen	0,031750352
s_Coprinus_phaeopunctatus	0,031750352
Endophyte-Dung Saprotroph-Lichen Parasite-Litter Saprotroph-Plant Pathogen-Soil Saprotroph-Wood Saprotroph	0,02948247
s_Phoma_clematidis-rectae	0,022678823
s_Phoma_glomerata	0,006803647
Bryophyte Parasite-Litter Saprotroph-Wood Saprotroph	0,029482469

s_Pluteus_cervinus	0,029482469
Animal Pathogen-Endosymbiont-Undefined Saprotroph	0,027214587
s_Candida_stellata	0,027214587
Animal Pathogen-Clavicipitaceous Endophyte-Fungal Parasite	0,022678823
s_Cordyceps_bassiana	0,022678823
Plant Pathogen-Undefined Parasite-Undefined Saprotroph	0,018143058
s_Spizellomyces_sp.	0,015875176
s_Spizellomyces_acuminatus	0,002267882
Endophyte-Fungal Parasite-Plant Pathogen	0,018143058
s_Verticillium_dahliae	0,018143058
Animal Pathogen-Endophyte-Plant Saprotroph-Soil Saprotroph-Undefined Saprotroph-Wood Saprotroph	0,011339412
s_Aspergillus_granulosus	0,006803647
s_Aspergillus_amstelodami	0,004535765
Fungal Parasite	0,004535765
s_Hyphomyces_chlorinigenus	0,004535765
Saprófitos	4,719462973
Undefined Saprotroph	3,946115122
s_Tetracladium_sp.	1,029618542
s_Coprinellus_sp.	0,492130449
s_Actinomucor_elegans	0,351521749
s_Scolecobasidium_tshawytschae	0,267610106
s_Coprinellus_radians	0,176894816
s_Sporormiella_pulchella	0,131537171
s_Neosectophoma_sp.	0,122465642
s_Lycoperdon_utrifforme	0,122465642
s_Conocybe_fuscimarginata	0,09071529
s_Ochroconis_tshawytschae	0,086179526
s_Scolecobasidium_constrictum	0,086179526
s_Myrothecium_sp.	0,086179526
s_Cunninghamella_echinulata	0,083911643
s_Hansfordia_sp.	0,077107997
s_Hydropisphaera_erubescens	0,068036468
s_Preussia_sp.	0,058964939
s_Coprinellus_sabulicola	0,052161292
s_Coprinellus_curtus	0,04989341
s_Lycoperdon_pratense	0,045357645
s_Trematosphaeria_pertusa	0,043089763
s_Pholiota_lenta	0,036286116
s_Lycoperdon_nigrescens	0,034018234
s_Coprinellus_micaceus	0,031750352
s_Coprinopsis_radiata	0,029482469
s_Geastrum_coronatum	0,027214587
s_Coprinopsis_calospora	0,027214587
s_Sclerostagonospora_sp.	0,024946705
s_Lophiostoma_sp.	0,024946705
s_Coprinellus_disseminatus	0,022678823
s_Ascorhizoctonia_sp.	0,02041094

s_Ramicandelaber_sp.	0,02041094
s_Geastrum_indicum	0,018143058
s_Fusidium_griseum	0,018143058
s_Hyaloscypha_sp.	0,018143058
s_Myrmecridium_sp.	0,011339411
s_Geminibasidium_hirsutum	0,011339411
s_Arthrinium_malaysianum	0,011339411
s_Fomitiporella_sp.	0,011339411
s_Geastrum_fimbriatum	0,009071529
s_Spiromyces_sp.	0,009071529
s_Cladophialophora_psammophila	0,002267882
s_Umbelopsis_sp.	0,002267882
s_Pseudallescheria_fimeti	0,002267882
Wood Saprotroph	0,424093982
s_Stachybotrys_chartarum	0,106590466
s_Scytalidium_circinatum	0,088447408
s_Aporospora_terricola	0,072572232
s_Laetiporus_sulphureus	0,063500703
s_Psathyrella_panaeoloides	0,027214587
s_Fomes_fomentarius	0,022678823
s_Psathyrella_candolleana	0,015875176
s_Psathyrella_fatua	0,015875176
s_Psathyrella_tephrophylla	0,011339411
Dung Saprotroph	0,133805053
s_Panaeolus_sphinctrinus	0,07030435
s_Cercophora_sp.	0,063500703
Soil Saprotroph	0,081643762
s_Bovista_promontorii	0,068036468
s_Bovista_plumbea	0,013607294
Dung Saprotroph-Soil Saprotroph-Undefined Saprotroph	0,068036468
s_Agrocybe_pediades	0,068036468
Dung Saprotroph-Wood Saprotroph	0,04989341
s_Ascobolus_sp.	0,04989341
Undefined Saprotroph-Wood Saprotroph	0,009071529
s_Chrysosporium_pilosum	0,009071529
Litter Saprotroph	0,004535765
s_Lalaria_carpini	0,004535765
Dung Saprotroph-Undefined Saprotroph-Wood Saprotroph	0,002267882
s_Penicillium_meridianum	0,002267882
Saprófito-Simbionte	14,08354878
Dung Saprotroph-Ectomycorrhizal-Litter Saprotroph-Undefined Saprotroph	12,73642672
s_Peziza_sp.	12,73642672
Endophyte-Litter Saprotroph-Soil Saprotroph-Undefined Saprotroph	1,317639589
s_Mortierella_sp.	1,224656416
s_Mortierella_selenospora	0,04989341
s_Mortierella_amoeboidea	0,040821881
s_Mortierella_clonocystis	0,002267882
Dung Saprotroph-Endophyte-Litter Saprotroph-Undefined Saprotroph	0,029482469

s_Podospora_sp.	0,029482469
Simbionte	41,84469543
Ectomycorrhizal	39,48609788
s_Efibulobasidium_sp.	39,28425636
s_Hebeloma_sp.	0,052161292
s_Boletus_luridus	0,04989341
s_Tomentella_sp.	0,036286116
s_Tomentella_lapida	0,031750352
s_Suillus_granulatus	0,018143058
s_Cortinarius_georgiolens	0,013607294
Arbuscular Mycorrhizal	1,517213228
s_Otophora_bareae	0,75520479
s_Rhizophagus_irregularis	0,331110809
s_Diversispora_insculpta	0,16101964
s_Corymbiglomus_tortuosum	0,158751758
s_Rhizophagus_sp.	0,040821881
s_Claroideoglosum_claroideum	0,024946705
s_Diversispora_sp.	0,02041094
s_Glomus_aggregatum	0,015875176
s_Claroideoglosum_sp.	0,004535765
s_Glomus_sp.	0,002267882
s_Funneliformis_mosseae	0,002267882
Lichenized	0,551095387
s_Leptosphaerulina_trifolii	0,551095387
Orchid Mycorrhizal	0,25173493
s_Serendipita_sp.	0,25173493
Endophyte	0,038553998
s_Capronia_sp.	0,02041094
s_Cadophora_luteo-olivacea	0,015875176
s_Metschnikowia_pulcherrima	0,002267882
Sin clasificar	4,068580759
-	4,068580759
s_Paraphoma_sp.	2,852995872
s_Chaetosphaeronema_sp.	0,970653604
s_Setophaeosphaeria_sp.	0,11112623
s_Letendraea_sp.	0,043089763
s_Dactylonectria_alcacerensis	0,029482469
s_Neostagonospora_caricis	0,022678823
s_Clohesyomyces_sp.	0,02041094
s_Globisporangium_carolinianum	0,009071529
s_Holtermannia_corniformis	0,009071529
Total general	100

PTOLOMAIS
ABOVE BLACK LAND

Nº Patógenos	40
Nº Saprófitos	13
Nº Saprófitos-simbiontes	1
Nº Simbiontes	11
Nº especies no clasificadas	2

Etiquetas de fila	Suma de AQ703P
Patógeno	30,37604677
Plant Pathogen	10,1832833
s_Stagonosporopsis_dorenboschii	3,51556328
s_Haematonectria_haematococca	2,22942013
s_Botryotinia_fuckeliana	1,791752252
s_Leptosphaeria_sp.	1,164480961
s_Penicillium_glabrum	0,635171433
s_Clonostachys_rosea	0,575130352
s_Uromyces_punctatus	0,240164323
s_Lewia_infectoria	0,03002054
s_Gaeumannomyces_incrustans	0,001580028
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Soil Saprotrroph-Wood Saprotrroph	6,743561384
s_Fusarium_acuminatum	6,092589667
s_Fusarium_equiseti	0,650971717
Animal Pathogen-Endophyte-Epiphyte-Undefined Saprotrroph	2,599146784
s_Cryptococcus_terreus	1,069679254
s_Cryptococcus_dimennae	0,706272713
s_Cryptococcus_chernovii	0,49612893
s_Cryptococcus_magnus	0,325485859
s_Cryptococcus_diffluens	0,001580028
Endophyte-Plant Pathogen-Undefined Saprotrroph	1,510507189
s_Pleospora_herbarum	1,510507189
Dung Saprotrroph-Plant Pathogen	1,497866961
s_Coprinus_comatus	1,496286933
s_Coprinus_phaeopunctatus	0,001580028
Plant Pathogen-Wood Saprotrroph	1,216621899
s_Peniophora_aurantiaca	1,0333386
s_Cladosporium_herbarum	0,183283299
Animal Pathogen	1,132880391
s_Aspergillus_ochraceus	1,121820193
s_Beauveria_sp.	0,007900142
s_Lecanicillium_saksenae	0,001580028
s_Hanseniaspora_uvarum	0,001580028
Animal Pathogen-Endophyte-Fungal Parasite-Plant Pathogen-Wood Saprotrroph	1,050718913
s_Acremonium_persicinum	0,755253595
s_Acremonium_rutilum	0,290725233
s_Acremonium_alternatum	0,004740085
Animal Pathogen-Endophyte-Plant Pathogen-Wood Saprotrroph	1,030178543
s_Alternaria_soliaridae	1,019118344
s_Alternaria_alternata	0,009480171
s_Alternaria_atra	0,001580028

Animal Pathogen-Undefined Saprotroph	0,846895244
s_Malassezia_restricta	0,846895244
Endophyte-Lichen Parasite-Plant Pathogen-Undefined Saprotroph	0,622531206
s_Pleospora_halimiones	0,622531206
Animal Pathogen-Endophyte-Epiphyte-Plant Pathogen	0,551429926
s_Aureobasidium_pullulans	0,551429926
Endophyte-Plant Pathogen	0,511929215
s_Boeremia_exigua	0,511929215
Animal Pathogen-Endosymbiont-Undefined Saprotroph	0,488228788
s_Candida_stellata	0,488228788
Fungal Parasite-Litter Saprotroph	0,357086428
s_Sporobolomyces_sp.	0,357086428
Endophyte-Dung Saprotroph-Lichen Parasite-Litter Saprotroph-Plant Pathogen-Soil Saprotroph-Wood Saprotroph	0,03002054
s_Phoma_glomerata	0,03002054
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Wood Saprotroph	0,003160056
s_Cladosporium_ramotenellum	0,001580028
s_Cladosporium_exasperatum	0,001580028
Saprófito	65,12877232
Undefined Saprotroph	59,92257861
s_Cunninghamella_echinulata	50,7331332
s_Tetracladium_sp.	7,685258335
s_Coprinellus_sp.	0,644651604
s_Spiromyces_sp.	0,303365461
s_Lophiostoma_sp.	0,20224364
s_Myrothecium_sp.	0,189603413
s_Yarrowia_lipolytica	0,153262759
s_Helicosporium_guianense	0,011060199
Undefined Saprotroph-Wood Saprotroph	3,013114236
s_Pyrenochaeta_sp.	1,401485227
s_Humicola_grisea	1,392005056
s_Chrysosporium_pilosum	0,219623953
Wood Saprotroph	2,189919419
s_Laetiporus_sulphureus	2,189919419
Soil Saprotroph	0,003160057
s_Lepiota_brunneoincarnata	0,003160057
Saprófito-simbionte	0,001580028
Endophyte-Litter Saprotroph-Soil Saprotroph-Undefined Saprotroph	0,001580028
s_Mortierella_sp.	0,001580028
Simbionte	3,89003002
Ectomycorrhizal	2,322641807
s_Lactarius_controversus	1,208721757
s_Inocybe_purpureobadia	0,870595671
s_Boletus_pulchrotinctus	0,241744351
s_Amanita_ochroterrea	0,001580028
Lichenized	0,636751462
s_Leptosphaerulina_trifolii	0,636751462
Endophyte	0,608310949

s_Cladosporium_sphaerospermum	0,600410807
s_Penicillium_brevicompactum	0,006320114
s_Metschnikowia_pulcherrima	0,001580028
Arbuscular Mycorrhizal	0,322325802
s_Diversispora_sp.	0,251224522
s_Rhizophagus_irregularis	0,037920683
s_Glomus_sp.	0,033180597
sin clasificar	0,603570865
-	0,603570865
s_Chaetosphaeronema_sp.	0,43608785
s_Clohesyomyces_sp.	0,167483015
Total general	100

PTOLOMAIS

GREY LAND

Nº Especies totales identificadas	117
Nº Patógenos	68
Nº Saprófitos	24
Nº Saprófitos-simbiontes	7
Nº Simbiontes	9
Nº especies no clasificadas	9

Etiquetas de fila	Suma de AQ703Q
Patógeno	20,94337305
Plant Pathogen	8,217663678
s_Leptosphaeria_sp.	4,108831839
s_Stagonosporopsis_dorenboschii	3,381034271
s_Curvularia_inaequalis	0,196536052
s_Curvularia_australiensis	0,113622405
s_Phaeoacremonium_hungaricum	0,110551529
s_Dactylaria_ampulliformis	0,085984523
s_Venturia_hystrionoides	0,07370102
s_Pythium_rostratum	0,03685051
s_Lectera_colletotrichoides	0,033779634
s_Lewia_infectoria	0,030708758
s_Leptosphaeria_biglobosa	0,027637882
s_Clonostachys_rosea	0,009212627
s_Penicillium_glabrum	0,003070876
s_Zygosaccharomyces_bailii	0,003070876
s_Botryotinia_fuckeliana	0,003070876
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Soil Saprotrroph-Wood Saprotrroph	5,008598452
s_Fusarium_acuminatum	4,170249355
s_Fusarium_equiseti	0,801498587
s_Fusarium_delphinoides	0,033779634
s_Fusarium_beomiforme	0,003070876
Animal Pathogen-Endophyte-Epiphyte-Undefined Saprotrroph	1,360397984
s_Cryptococcus_terreus	0,426851738
s_Cryptococcus_aerius	0,239528313

s_Cryptococcus_dimennae	0,181181673
s_Cryptococcus_bhutanensis	0,181181673
s_Cryptococcus_terricola	0,079842771
s_Cryptococcus_sp.	0,064488392
s_Cryptococcus_laurentii	0,061417516
s_Cryptococcus_magnus	0,05834664
s_Cryptococcus_adeliensis	0,049134013
s_Cryptococcus_heimaeyensis	0,009212627
s_Cryptococcus_paraflavus	0,003070876
s_Cryptococcus_victoriae	0,003070876
s_Cryptococcus_chernovii	0,003070876
Animal Endosymbiont-Animal Pathogen-Undefined Saprotroph	1,354256234
s_Basidiobolus_ranarum	1,120869672
s_Basidiobolus_magnus	0,233386562
Dung Saprotroph-Plant Pathogen	1,191499816
s_Coprinus_phaeopunctatus	1,191499816
Endophyte-Fungal Parasite-Lichen Parasite-Plant Pathogen-Wood Saprotroph	0,908979241
s_Epicoccum_nigrum	0,908979241
Animal Pathogen-Endophyte-Fungal Parasite-Plant Pathogen-Wood Saprotroph	0,497481881
s_Acremonium_persicinum	0,307087581
s_Acremonium_rutilum	0,162756418
s_Acremonium_sp.	0,027637882
Plant Pathogen-Wood Saprotroph	0,374646849
s_Ganoderma_resinaceum	0,22724481
s_Coniothyrium_sidae	0,082913647
s_Cladosporium_herbarum	0,064488392
Endophyte-Lichen Parasite-Plant Pathogen-Undefined Saprotroph	0,285591451
s_Pleospora_halimiones	0,285591451
Endophyte-Plant Pathogen-Undefined Saprotroph	0,276378823
s_Pleospora_herbarum	0,276378823
Animal Pathogen	0,261024444
s_Lecanicillium_psalliotae	0,141260287
s_Aspergillus_sydowii	0,113622405
s_Torulaspora_delbrueckii	0,003070876
s_Hanseniaspora_uvarum	0,003070876
Endophyte-Plant Pathogen	0,254882692
s_Boeremia_exigua	0,128976784
s_Colletotrichum_dematium	0,09519715
s_Diaporthe_gulyae	0,030708758
Endophyte-Dung Saprotroph-Lichen Parasite-Litter Saprotroph-Plant Pathogen-Soil Saprotroph-Wood Saprotroph	0,236457438
s_Phoma_paspali	0,178110797
s_Phoma_sp.	0,03685051
s_Phoma_glomerata	0,021496131
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Wood Saprotroph	0,1903943
s_Cladosporium_exasperatum	0,1903943
Animal Pathogen-Endophyte-Plant Saprotroph-Soil Saprotroph-Undefined Saprotroph-Wood Saprotroph	0,092126275
s_Aspergillus_amstelodami	0,089055399

s_Aspergillus_carbonarius	0,003070876
Bryophyte Parasite-Litter Saprotroph-Wood Saprotroph	0,089055399
s_Pluteus_hongoi	0,089055399
Endophyte-Fungal Parasite-Plant Pathogen	0,076771895
s_Verticillium_dahliae	0,076771895
Endophyte-Lichen Parasite-Undefined Saprotroph	0,067559268
s_Pyrenochaetopsis_sp.	0,067559268
Animal Pathogen-Undefined Saprotroph	0,064488392
s_Malassezia_restricta	0,064488392
Endophyte-Plant Pathogen-Wood Saprotroph	0,039921386
s_Torula_sp.	0,039921386
Animal Pathogen-Plant Pathogen-Undefined Saprotroph	0,033779634
s_Coniosporium_apollinis	0,033779634
Animal Pathogen-Endosymbiont-Undefined Saprotroph	0,033779634
s_Candida_stellata	0,030708758
s_Candida_apicola	0,003070876
Endomycorrhizal-Plant Pathogen-Undefined Saprotroph	0,021496131
s_Ceratobasidium_sp.	0,021496131
Animal Pathogen-Endophyte-Plant Pathogen-Wood Saprotroph	0,006141752
s_Alternaria_atra	0,003070876
s_Alternaria_alternata	0,003070876
Saprófito	6,906399707
Undefined Saprotroph	3,893870533
s_Myrothecium_sp.	1,255988208
s_Coprinopsis_stangliana	0,810711215
s_Tetracladium_sp.	0,515907137
s_Coprinellus_brevisetulosus	0,319371085
s_Coprinopsis_calospora	0,202677804
s_Coprinellus_sp.	0,178110797
s_Scolecobasidium_constrictum	0,122835033
s_Hydropisphaera_erubescens	0,119764157
s_Mucor_hiemalis	0,09519715
s_Lycoperdon_perlatum	0,09519715
s_Cunninghamella_echinulata	0,079842771
s_Geastrum_schmidelii	0,049134013
s_Preussia_sp.	0,039921386
s_Saccharomyces_cerevisiae	0,009212627
Wood Saprotroph	1,67976907
s_Stachybotrys_chartarum	0,878270483
s_Scytalidium_circinatum	0,350079843
s_Psathyrella_panaeoloides	0,32244196
s_Laetiporus_sulphureus	0,064488392
s_Psathyrella_tephrophylla	0,064488392
Dung Saprotroph	0,712443189
s_Schizothecium_carpinicola	0,712443189
Leaf Saprotroph	0,251811817
s_Cystofilobasidium_macerans	0,251811817
Dung Saprotroph-Soil Saprotroph-Undefined Saprotroph	0,184252549

s_Agrocybe_pediades	0,184252549
Soil Saprotroph	0,147402039
s_Disciseda_candida	0,147402039
Undefined Saprotroph-Wood Saprotroph	0,03685051
s_Humicola_grisea	0,03685051
Saprófito-simbionte	55,96978258
Endophyte-Litter Saprotroph-Soil Saprotroph-Undefined Saprotroph	37,59366171
s_Mortierella_sp.	37,19137698
s_Mortierella_dichotoma	0,178110797
s_Mortierella_amoeboides	0,138189412
s_Mortierella_clonocystis	0,085984523
Dung Saprotroph-Ectomycorrhizal-Litter Saprotroph-Undefined Saprotroph	18,29934897
s_Peziza_sp.	18,29934897
Dung Saprotroph-Endophyte-Litter Saprotroph-Undefined Saprotroph	0,042992261
s_Podospora_sp.	0,042992261
Endophyte-Soil Saprotroph	0,033779634
s_Bartalinia_robillardoides	0,033779634
Simbionte	1,940793514
Orchid Mycorrhizal	1,289767842
s_Serendipita_sp.	1,289767842
Ectomycorrhizal	0,540474142
s_Hebeloma_sp.	0,1903943
s_Pisolithus_arhizus	0,128976784
s_Astraeus_hygrometricus	0,113622405
s_Efibulobasidium_sp.	0,107480653
Endophyte	0,052204889
s_Capronia_sp.	0,052204889
Lichenized	0,049134014
s_Sarcogyne_regularis	0,024567007
s_Arthothelium_spectabile	0,024567007
Arbuscular Mycorrhizal	0,009212627
s_Rhizophagus_irregularis	0,009212627
sin clasificar	14,23965115
-	14,23965115
s_Oedocephalum_adhaerens	7,434590345
s_Paraphoma_sp.	6,347500307
s_Chaetosphaeronema_sp.	0,13204766
s_Setophaeosphaeria_sp.	0,119764157
s_Globisporangium_carolinianum	0,061417516
s_Setophaeosphaeria_hemerocallidis	0,05834664
s_Clohesyomyces_sp.	0,03685051
s_Holtermannia_corniformis	0,024567007
s_Neopecticia_coulteri	0,024567007
Total general	100

SUBZONA BOSQUE (A18)

Nº Especies totales identificadas	223
Nº Patógenos	102
Nº Saprófitos	70
Nº Saprófitos-simbiontes	12
Nº Simbiontes	22
Nº especies no clasificadas	17

Etiquetas de fila	Suma de AQ703R
Patógenos	26,03487005
Animal Pathogen-Endophyte-Epiphyte-Undefined Saprotrroph	9,82636289
s_Cryptococcus_aerius	9,362855207
s_Cryptococcus_terreus	0,27810461
s_Cryptococcus_adeliensis	0,078439762
s_Cryptococcus_bhutanensis	0,035654437
s_Cryptococcus_podzolicus	0,032088993
s_Cryptococcus_dimennae	0,016044497
s_Cryptococcus_sp.	0,014261775
s_Cryptococcus_magnus	0,007130887
s_Cryptococcus_chernovii	0,001782722
Plant Pathogen	7,499910867
s_Truncatella_laurocerasi	3,349734374
s_Bipolaris_eleusines	1,821941741
s_Haematonectria_haematococca	0,443897743
s_Olpidium_brassicae	0,322672657
s_Macrophomina_phaseolina	0,197882126
s_Seimatosporium_hypericinum	0,190751239
s_Clonostachys_rosea	0,169358577
s_Cylindrocarpon_sp.	0,158662246
s_Laetisaria_arvalis	0,156879524
s_Monographella_sp.	0,106963312
s_Ilyonectria_robusta	0,082005206
s_Pythium_periplocum	0,065960709
s_Cochliobolus_geniculatus	0,064177987
s_Phaeoacremonium_hungaricum	0,060612543
s_Discostroma_corticola	0,037437159
s_Cylindrocarpon_ianthothele	0,030306272
s_Leptosphaeria_sp.	0,02852355
s_Neonectria_sp.	0,026740828
s_Pythium_rostratum	0,026740828
s_Catenulostroma_herminusense	0,01960994
s_Dothiorella_iberica	0,016044497
s_Pythium_acanthicum	0,016044497
s_Discohainesia_oenotherae	0,014261775
s_Devriesia_agapanthi	0,014261775
s_Venturia_hystrioides	0,012479053
s_Pythium_aristosporum	0,012479053
s_Penicillium_glabrum	0,010696331
s_Pestalotiopsis_sp.	0,010696331

s_Pythium_ultimum	0,007130887
s_Seimatosporium_vitis	0,007130887
s_Penicillium_purpurogenum	0,005348166
s_Pythium_debaryanum	0,003565444
s_Cercospora_carotae	0,003565444
s_Penicillium_expansum	0,001782722
s_Botryotinia_fuckeliana	0,001782722
s_Leptosphaeria_sacchari	0,001782722
Animal Pathogen-Endophyte-Plant Pathogen-Wood Saprotrroph	2,675865512
s_Alternaria_solaridae	2,33893108
s_Alternaria_atra	0,331586266
s_Alternaria_alternata	0,005348166
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Soil Saprotrroph-Wood Saprotrroph	1,928905053
s_Fusarium_equiseti	1,611580561
s_Fusarium_pseudensiforme	0,155096802
s_Fusarium_acuminatum	0,142617749
s_Fusarium_lichenicola	0,017827219
s_Fusarium_beomiforme	0,001782722
Endophyte-Plant Pathogen	0,927015367
s_Rhizopycnis_vagum	0,468855849
s_Microdochium_bolleyi	0,386850644
s_Periconia_prolifca	0,058829821
s_Camarosporium_sp.	0,012479053
Animal Pathogen-Endophyte-Fungal Parasite-Plant Pathogen-Wood Saprotrroph	0,850358328
s_Acremonium_persicinum	0,698826969
s_Acremonium_nepalense	0,10518059
s_Acremonium_spinosum	0,026740828
s_Acremonium_sp.	0,014261775
s_Acremonium_stromaticum	0,005348166
Animal Endosymbiont-Animal Pathogen-Endophyte-Plant Pathogen-Undefined Saprotrroph	0,493813955
s_Rhodotorula_lamellibrachiae	0,461724962
s_Rhodotorula_ferulica	0,01960994
s_Rhodotorula_sp.	0,012479053
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Wood Saprotrroph	0,269191001
s_Cladosporium_exasperatum	0,247798339
s_Cladosporium_ramotenellum	0,021392662
Animal Pathogen-Plant Pathogen-Undefined Saprotrroph	0,269191001
s_Coniosporium_sp.	0,269191001
Plant Pathogen-Wood Saprotrroph	0,210361179
s_Coniothyrium_sidae	0,187185795
s_Cladosporium_herbarum	0,023175384
Animal Pathogen	0,192533961
s_Beauveria_sp.	0,073091596
s_Metacordyceps_chlamydosporia	0,041002603
s_Lecanicillium_psalliotae	0,039219881

s_Trichosporon_asahii	0,021392662
s_Pochonia_bulbillosa	0,007130887
s_Conidiobolus_coronatus	0,005348166
s_Aspergillus_wentii	0,001782722
s_Aspergillus_sydowii	0,001782722
s_Hanseniaspora_uvarum	0,001782722
Animal Pathogen-Undefined Saprotroph	0,158662246
s_Malassezia_restricta	0,078439762
s_Exophiala_equina	0,033871715
s_Malassezia_sp.	0,02852355
s_Exophiala_sp.	0,017827219
Endophyte-Fungal Parasite-Plant Pathogen	0,139052305
s_Verticillium_dahliae	0,139052305
Animal Pathogen-Endophyte-Fungal Parasite-Lichen Parasite-Plant Pathogen-Wood Saprotroph	0,135486861
s_Nectria_ramulariae	0,135486861
Endophyte-Dung Saprotroph-Lichen Parasite-Litter Saprotroph-Plant Pathogen-Soil Saprotroph-Wood Saprotroph	0,126573252
s_Phoma_sp.	0,126573252
Plant Pathogen-Undefined Saprotroph	0,067743431
s_Rhizopus_oryzae	0,067743431
Epiphyte-Plant Pathogen-Wood Saprotroph	0,055264378
s_Diplodia_seriate	0,055264378
Endophyte-Fungal Parasite-Lichen Parasite-Plant Pathogen-Wood Saprotroph	0,051698934
s_Epicoccum_nigrum	0,051698934
Ectomycorrhizal-Fungal Parasite-Soil Saprotroph-Undefined Saprotroph	0,042785325
s_Entoloma_rusticoides	0,026740828
s_Entoloma_phaeocyathus	0,016044497
Animal Pathogen-Endophyte-Epiphyte-Plant Pathogen	0,02852355
s_Aureobasidium_pullulans	0,02852355
Animal Pathogen-Endophyte-Ericoid Mycorrhizal-Plant Pathogen-Wood Saprotroph	0,026740828
s_Phialophora_geniculata	0,026740828
Fungal Parasite	0,014261775
s_Cystobasidium_sloffiae	0,014261775
Endophyte-Lichen Parasite-Undefined Saprotroph	0,012479053
s_Pyrenochaetopsis_leptospora	0,012479053
Animal Pathogen-Dung Saprotroph-Endophyte-Epiphyte-Plant Saprotroph-Wood Saprotroph	0,007130888
s_Chaetomium_trigonosporum	0,003565444
s_Chaetomium_sp.	0,003565444
Animal Pathogen-Endosymbiont-Undefined Saprotroph	0,007130887
s_Candida_stellata	0,007130887
Endophyte-Fungal Parasite	0,005348166
s_Hypocrea_stellata	0,005348166
Animal Pathogen-Plant Pathogen-Wood Saprotroph	0,005348166
s_Aspergillus_flavus	0,005348166
Animal Pathogen-Endophyte-Plant Saprotroph-Soil Saprotroph-Undefined Saprotroph-Wood Saprotroph	0,003565444

s_Aspergillus_granulosus	0,003565444
Fungal Parasite-Undefined Saprotroph	0,003565444
s_Bionectria_ralfsii	0,003565444
Saprófitos	15,11926409
Undefined Saprotroph	8,811994154
s_Pyronema_sp.	2,695475452
s_Geminibasidium_sp.	1,90751239
s_Mucor_brunneogriseus	0,807573002
s_Arthrotrrys_conoides	0,586515492
s_Paraconiothyrium_africanum	0,513423896
s_Scutellinia_torrentis	0,310193604
s_Tetracladium_sp.	0,270973723
s_Scutellinia_sp.	0,240667451
s_Epidermophyton_floccosum	0,162227689
s_Arthrotrrys_sp.	0,156879524
s_Capnobotryella_sp.	0,112311477
s_Ochroconis_tshawytschae	0,083787927
s_Paraconiothyrium_hawaiiense	0,067743431
s_Polytolypa_hystricis	0,067743431
s_Paraconiothyrium_variabile	0,067743431
s_Preussia_flanaganii	0,064177987
s_Lophiostoma_sp.	0,064177987
s_Cirrenalia_macrocephala	0,062395265
s_Coniocybe_nodulisporioides	0,062395265
s_Sagenomella_diversispora	0,055264378
s_Pholiota_chocenensis	0,053481656
s_Articulospora_sp.	0,04813349
s_Cunninghamella_echinulata	0,044568046
s_Coprinellus_radians	0,033871715
s_Hansfordia_sp.	0,026740828
s_Absidia_spinosa	0,024958106
s_Geoglossum_sp.	0,023175384
s_Petriella_guttulata	0,023175384
s_Gymnostellatospora_frigida	0,01960994
s_Guehomyces_pullulans	0,016044497
s_Preussia_sp.	0,014261775
s_Capnodium_sp.	0,014261775
s_Pseudeurotium_hygrophilum	0,014261775
s_Myrothecium_sp.	0,012479053
s_Walleimia_sebi	0,012479053
s_Ramicandelaber_sp.	0,012479053
s_Dactylella_oxyspora	0,010696331
s_Tricladium_sp.	0,008913609
s_Auricularia_sp.	0,008913609
s_Roussoella_neopustulans	0,007130887
s_Ijuhya_paraparilis	0,005348166
s_Spiromyces_sp.	0,005348166
s_Scolecobasidium_sp.	0,003565444

s_Trichocladium_pyriforme	0,003565444
s_Cunninghamella_blakesleeana	0,003565444
s_Ascorhizoctonia_sp.	0,001782722
Wood Saprotroph	2,583163974
s_Stachybotrys_chartarum	1,638321389
s_Stachybotrys_sp.	0,643562591
s_Scytalidium_circinatum	0,160444967
s_Aporospora_terricola	0,032088993
s_Laetiporus_sulphureus	0,026740828
s_Bactrodesmium_longisporum	0,024958106
s_Scytalidium_sp.	0,023175384
s_Coniophora_sp.	0,017827219
s_Trechispora_sp.	0,014261775
s_Stachybotrys_oleronensis	0,001782722
Undefined Saprotroph-Wood Saprotroph	2,551074982
s_Pyrenochaeta_sp.	1,531358078
s_Humicola_grisea	0,837879274
s_Chrysosporium_sp.	0,18183763
Leaf Saprotroph	0,848575605
s_Cystofilobasidium_macerans	0,848575605
Soil Saprotroph	0,178272186
s_Melanoleuca_decembris	0,060612543
s_Archaeorhizomyces_sp.	0,055264378
s_Melanoleuca_pseudoluscina	0,033871715
s_Melanoleuca_communis	0,02852355
Dung Saprotroph-Undefined Saprotroph-Wood Saprotroph	0,073091596
s_Penicillium_meridianum	0,053481656
s_Penicillium_megasporum	0,008913609
s_Penicillium_madriti	0,008913609
s_Penicillium_bialowiezense	0,001782722
Dung Saprotroph	0,073091596
s_Schizothecium_glutinans	0,039219881
s_Zopfiella_marina	0,033871715
Saprófito-simbiontes	22,65304667
Endophyte-Litter Saprotroph-Soil Saprotroph-Undefined Saprotroph	17,75590972
s_Mortierella_sp.	14,98734267
s_Mortierella_exigua	1,832638072
s_Mortierella_clonocystis	0,443897743
s_Mortierella_beljakovae	0,424287803
s_Mortierella_amoeboidea	0,064177987
s_Mortierella_rishiksha	0,003565444
Ectomycorrhizal-Undefined Saprotroph-Wood Saprotroph	4,761650087
s_Morchella_importuna	4,761650087
Dung Saprotroph-Ectomycorrhizal-Litter Saprotroph-Undefined Saprotroph	0,09626698
s_Peziza_subcitrina	0,09626698
Dung Saprotroph-Endophyte-Litter Saprotroph-Undefined Saprotroph	0,021392662
s_Podospora_sp.	0,021392662
Clavicipitaceous Endophyte-Undefined Saprotroph-Wood Saprotroph	0,007130887

s_Paecilomyces_marquandii	0,007130887
Animal Endosymbiont-Undefined Saprotroph	0,005348166
s_Pichia_manshurica	0,005348166
Ectomycorrhizal-Wood Saprotroph	0,005348166
s_Sistotrema_sp.	0,005348166
Simbiontes	28,98170928
Ectomycorrhizal	17,87891754
s_Tuber_melanosporum	13,17787999
s_Rhizopogon_roseolus	3,848896495
s_Cortinarius_sp.	0,399329697
s_Suillus_mediterraneensis	0,27810461
s_Tomentella_sp.	0,085570649
s_Suillus_collinitus	0,0570471
s_Pisolithus_arhizus	0,026740828
s_Astraeus_telleriae	0,005348166
Orchid Mycorrhizal	10,16329732
s_Serendipita_sp.	7,740578315
s_Serendipita_herbamans	2,422719007
Arbuscular Mycorrhizal	0,629300817
s_Claroideoglossum_sp.	0,244232895
s_Claroideoglossum_claroideum	0,238884729
s_Diversispora_sp.	0,053481656
s_Archaeospora_schenckii	0,051698934
s_Ambispora_gerdemannii	0,033871715
s_Otophora_bareae	0,005348166
s_Glossum_sp.	0,001782722
Endophyte	0,301279995
s_Cadophora_luteo-olivacea	0,269191001
s_Penicillium_brevicompactum	0,02852355
s_Metschnikowia_pulcherrima	0,001782722
s_Capronia_pilosella	0,001782722
Animal Endosymbiont	0,008913609
s_Smittium_morbosum	0,008913609
sin clasificar	7,211109924
-	7,211109924
s_Dactylonectria_alcacerensis	5,009448426
s_Paraphoma_chrysanthemicola	1,501051806
s_Paraphoma_sp.	0,247798339
s_Clohesyomyces_sp.	0,115876921
s_Letendreaa_sp.	0,073091596
s_Minimedusa_sp.	0,060612543
s_Neopestalotiopsis_foedans	0,0570471
s_Neostagonospora_caricis	0,055264378
s_Hispidoconidioma_sp.	0,041002603
s_Radulidium_subulatum	0,014261775
s_Kurtzmanomyces_sp.	0,008913609
s_Lipomyces_tetrasporus	0,008913609
s_Lobulomyces_angularis	0,008913609

s_Bradomyces_alpinus	0,003565444
s_Hanseniaspora_osmophila	0,001782722
s_Metschnikowia_chrysoperlae	0,001782722
s_Metschnikowia_sp.	0,001782722

Total general	100
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EL BRUC CT (0123)

Nº Especies totales identificadas	219
Nº Patógenos	86
Nº Saprófitos	78
Nº Saprófitos-simbiontes	12
Nº Simbiontes	28
Nº especies no clasificadas	15

Etiquetas de fila	Suma de AQ703S
Patógeno	12,82483354

Endophyte-Dung Saprotroph-Lichen Parasite-Litter Saprotroph-Plant Pathogen-Soil Saprotroph-Wood Saprotroph	4,094932596
s_Phoma_sp.	3,837095988
s_Phoma_crystallifera	0,20911158
s_Phoma_saxea	0,048725028
Plant Pathogen	2,263683618
s_Clonostachys_rosea	0,584700341
s_Ilyonectria_robusta	0,471008608
s_Stagonosporopsis_dorenboschii	0,194900114
s_Haematonectria_haematococca	0,174598019
s_Phaeoacremonium_hungaricum	0,172567809
s_Leptosphaeria_sp.	0,136024038
s_Pyrenophora_triseptata	0,115721943
s_Pestalotiopsis_sp.	0,077147962
s_Curvularia_australiensis	0,062936495
s_Monosporascus_cannonballus	0,050755238
s_Cylindrocarpon_sp.	0,0426344
s_Truncatella_laurocerasi	0,0426344
s_Pythium_rostratum	0,028422933
s_Venturia_hystrioides	0,022332305
s_Botryotinia_fuckeliana	0,016241676
s_Penicillium_glabrum	0,014211467
s_Cercospora_apii	0,010151048
s_Aphanomyces_cochlioides	0,010151048
s_Phytophthora_drechsleri	0,010151048
s_Olipidium_brassicae	0,006090629
s_Microdiplodia_sp.	0,006090629
s_Dothiorella_iberica	0,006090629
s_Podosphaera_astericola	0,004060419
s_Pythium_irregulare	0,00203021
s_Monographella_cucumerina	0,00203021

Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Soil Saprotroph-Wood Saprotroph	1,8129771
s_Fusarium_acuminatum	1,591684262
s_Fusarium_pseudensiforme	0,156326133
s_Fusarium_equiseti	0,050755238
s_Fusarium_poae	0,012181257
s_Fusarium_keratoplasticum	0,00203021
Animal Pathogen-Endophyte-Fungal Parasite-Plant Pathogen-Wood Saprotroph	1,563261328
s_Acremonium_persicinum	1,370391424
s_Acremonium_sp.	0,12587299
s_Acremonium_spinosum	0,036543771
s_Acremonium_rutilum	0,018271886
s_Acremonium_fusidioides	0,012181257
Animal Pathogen-Endophyte-Epiphyte-Undefined Saprotroph	1,195793406
s_Cryptococcus_aerius	0,726815007
s_Cryptococcus_adeliensis	0,16647718
s_Cryptococcus_dimennae	0,140084457
s_Cryptococcus_podzolicus	0,117752152
s_Cryptococcus_terricola	0,038573981
s_Cryptococcus_sp.	0,004060419
s_Cryptococcus_chernovii	0,00203021
Animal Pathogen-Endophyte-Plant Pathogen-Wood Saprotroph	0,379649181
s_Alternaria_atra	0,351226247
s_Alternaria_sp.	0,014211467
s_Alternaria_soliaridae	0,014211467
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Wood Saprotroph	0,235504304
s_Cladosporium_exasperatum	0,231443885
s_Cladosporium_ramotenellum	0,004060419
Animal Pathogen-Undefined Saprotroph	0,211141791
s_Exophiala_pisciphila	0,140084457
s_Exophiala_sp.	0,064966705
s_Malassezia_restricta	0,004060419
s_Exophiala_xenobiotica	0,00203021
Plant Pathogen-Wood Saprotroph	0,194900114
s_Coniothyrium_sidae	0,138054247
s_Cladosporium_herbarum	0,030453143
s_Coniothyrium_sp.	0,026392724
Endophyte-Plant Pathogen	0,129933409
s_Boeremia_exigua	0,099480266
s_Rhizopycnis_vagum	0,030453143
Endophyte-Plant Pathogen-Wood Saprotroph	0,1279032
s_Periconia_sp.	0,097450057
s_Phomopsis_sp.	0,030453143
Animal Pathogen	0,111661525
s_Metacordyceps_chlamydosporia	0,060906286
s_Beauveria_sp.	0,024362514
s_Hanseniaspora_uvarum	0,012181257
s_Rotiferophthora_angustispora	0,006090629

s_Trichosporon_asahii	0,006090629
s_Pochonia_bulbillosa	0,00203021
Bryophyte Parasite-Litter Saprotroph-Wood Saprotroph	0,093389638
s_Pluteus_exiguus	0,058876076
s_Pluteus_longistriatus	0,034513562
Endophyte-Fungal Parasite-Lichen Parasite-Plant Pathogen-Wood Saprotroph	0,060906286
s_Epicoccum_nigrum	0,060906286
Animal Pathogen-Endophyte-Epiphyte-Plant Pathogen-Undefined Saprotroph	0,060906286
s_Aureobasidium_sp.	0,060906286
Animal Pathogen-Endosymbiont-Undefined Saprotroph	0,054815657
s_Candida_stellata	0,036543771
s_Candida_subhashii	0,018271886
Animal Endosymbiont-Animal Pathogen-Endophyte-Plant Pathogen-Undefined Saprotroph	0,052785447
s_Rhodotorula_sp.	0,052785447
Animal Pathogen-Plant Pathogen-Undefined Saprotroph	0,0426344
s_Didymella_urticicola	0,04060419
s_Coniosporium_sp.	0,00203021
Animal Pathogen-Endophyte-Epiphyte-Plant Pathogen	0,030453143
s_Aureobasidium_pullulans	0,030453143
Dung Saprotroph-Plant Pathogen	0,030453143
s_Coprinus_phaeopunctatus	0,030453143
Endophyte-Plant Pathogen-Undefined Saprotroph	0,022332305
s_Pleospora_herbarum	0,022332305
Epiphyte-Plant Pathogen-Wood Saprotroph	0,016241676
s_Diplodia_seriate	0,016241676
Fungal Parasite-Lichen Parasite	0,014211467
s_Tremella_sp.	0,014211467
Endophyte-Lichen Parasite-Undefined Saprotroph	0,012181257
s_Pyrenochaetopsis_leptospora	0,012181257
Ectomycorrhizal-Fungal Parasite-Soil Saprotroph-Undefined Saprotroph	0,006090629
s_Entoloma_rusticoides	0,006090629
Endophyte-Fungal Parasite	0,00406042
s_Hypocrea_virens	0,00203021
s_Hypocrea_lactea	0,00203021
Fungal Parasite-Litter Saprotroph	0,00203021
s_Sporobolomyces_sp.	0,00203021
Saprófito	32,61531591
Undefined Saprotroph	29,27359104
s_Geminibasidium_sp.	23,70269612
s_Hydropisphaera_erubescens	1,212035082
s_Oliveonia_pauxilla	0,956228683
s_Ramicandelaber_sp.	0,702452493
s_Tetracladium_sp.	0,278138704
s_Cladophialophora_sp.	0,200990742
s_Zygorhynchus_sp.	0,164446971
s_Arthrotrichum_conoides	0,156326133
s_Paraconiothyrium_variabile	0,152265714

s_Hansfordia_sp.	0,144144876
s_Scutellinia_sp.	0,138054247
s_Clavaria_sp.	0,121812571
s_Lophiostoma_sp.	0,113691733
s_Conlarium_sp.	0,107601104
s_Myrothecium_sp.	0,101510476
s_Ochrocladosporium_elatum	0,095419847
s_Cunninghamella_echinulata	0,081208381
s_Paraconiothyrium_africanum	0,069027124
s_Mucor_circinelloides	0,060906286
s_Preussia_sp.	0,060906286
s_Mucor_bainieri	0,060906286
s_Ochroconis_tshawytschae	0,044664609
s_Auricularia_sp.	0,044664609
s_Scolecobasidium_sp.	0,034513562
s_Coprinopsis_sp.	0,034513562
s_Scolecobasidium_tshawytschae	0,034513562
s_Agaricus_bisporus	0,034513562
s_Absidia_spinosa	0,028422933
s_Mucor_brunneogriseus	0,026392724
s_Clitopilus_hobsonii	0,026392724
s_Spiromyces_sp.	0,024362514
s_Paraphaeosphaeria_pilleata	0,022332305
s_Trichoglossum_durandii	0,016241676
s_Geastrum_fimbriatum	0,016241676
s_Umbelopsis_sp.	0,016241676
s_Geoglossum_umbratile	0,016241676
s_Articulospora_sp.	0,016241676
s_Pseudallescheria_fimeti	0,014211467
s_Calcarisporiella_sp.	0,014211467
s_Coprinellus_xanthothrix	0,012181257
s_Uncobasidium_sp.	0,012181257
s_Lophium_sp.	0,010151048
s_Idriella_lunata	0,010151048
s_Cirrenalia_macrocephala	0,010151048
s_Conlarium_duplumascospora	0,010151048
s_Arthrographis_sp.	0,010151048
s_Infundibulicybe_geotropa	0,008120838
s_Xenopolyscytalum_pinea	0,008120838
s_Rosellinia_sp.	0,006090629
s_Dactylella_sp.	0,006090629
s_Tricharina_praecox	0,004060419
s_Talaromyces_viridulus	0,004060419
s_Arthrotrys_sp.	0,004060419
s_Resinicium_saccharicola	0,004060419
s_Saccharomyces_cerevisiae	0,004060419
s_Circinella_muscae	0,00203021
s_Neosetophoma_sp.	0,00203021

Wood Saprotroph	2,480916031
s_Bactrodesmium_longisporum	0,978560987
s_Stachybotrys_chartarum	0,755237941
s_Thielaviopsis_basicola	0,582670132
s_Lindtneria_trachyspora	0,032483352
s_Psathyrella_calcareo	0,032483352
s_Stachybotrys_oleronensis	0,026392724
s_Tapinella_panuoides	0,018271886
s_Crepidotus_lundellii	0,016241676
s_Serpula_himantioides	0,016241676
s_Lentinula_edodes	0,012181257
s_Stachybotrys_sp.	0,010151048
Soil Saprotroph	0,497401332
s_Camarophylloopsis_micacea	0,365437713
s_Archaeorhizomyces_sp.	0,060906286
s_Melanoleuca_decembris	0,056845866
s_Geomyces_sp.	0,008120838
s_Melanoleuca_pseudoluscina	0,006090629
Undefined Saprotroph-Wood Saprotroph	0,270017866
s_Pyrenochaeta_sp.	0,207081371
s_Humicola_grisea	0,062936495
Dung Saprotroph	0,079178171
s_Cercophora_sp.	0,079178171
Dung Saprotroph-Undefined Saprotroph-Wood Saprotroph	0,014211467
s_Penicillium_meridianum	0,012181257
s_Penicillium_quercetorum	0,00203021
Saprófito-simbionte	21,27659575
Endophyte-Litter Saprotroph-Soil Saprotroph-Undefined Saprotroph	15,33011207
s_Mortierella_sp.	11,67370473
s_Mortierella_clonocystis	2,815900601
s_Mortierella_exigua	0,694331655
s_Mortierella_hyalina	0,115721943
s_Mortierella_amoeboides	0,030453143
Dung Saprotroph-Ectomycorrhizal-Litter Saprotroph-Undefined Saprotroph	4,947620595
s_Peziza_sp.	3,587380218
s_Peziza_limnaea	1,360240377
Dung Saprotroph-Endophyte-Litter Saprotroph-Undefined Saprotroph	0,481159656
s_Podospora_sp.	0,481159656
Clavicipitaceous Endophyte-Undefined Saprotroph-Wood Saprotroph	0,434464837
s_Paecilomyces_penicillatus	0,434464837
Endophyte-Soil Saprotroph	0,060906286
s_Bartalinia_robillardoides	0,060906286
Dung Saprotroph-Endophyte-Wood Saprotroph	0,018271886
s_Stilbella_sp.	0,018271886
Animal Endosymbiont-Undefined Saprotroph	0,004060419
s_Pichia_membranifaciens	0,004060419
Simbionte	26,80079584
Ectomycorrhizal-Orchid Mycorrhizal-Root Associated Biotroph	10,62814682

s_Sebacina_sp.	10,62814682
Ectomycorrhizal	7,976693197
s_Epulothiza_sp.	3,406691571
s_Cortinarius_sp.	1,902306318
s_Thelephora_sp.	1,216095501
s_Rhizopogon_roseolus	0,92780575
s_Pulvinula_sp.	0,119782362
s_Pisolithus_arhizus	0,119782362
s_Pseudotomentella_sp.	0,069027124
s_Suillus_mediterraneensis	0,050755238
s_Tomentella_sp.	0,044664609
s_Terfezia_olbiensis	0,036543771
s_Hydnocystis_piligera	0,030453143
s_Inocybe_sp.	0,022332305
s_Suillus_collinitus	0,012181257
s_Amphinema_sp.	0,008120838
s_Delastria_sp.	0,006090629
s_Cenococcum_geophilum	0,004060419
Orchid Mycorrhizal	6,722023713
s_Serendipita_sp.	6,722023713
Arbuscular Mycorrhizal	1,057739159
s_Claroideoglomus_sp.	0,870959883
s_Scutellospora_sp.	0,093389638
s_Glomus_sp.	0,08323859
s_Corymbioglomus_corymbiforme	0,006090629
s_Ambispora_granatensis	0,004060419
Lichenized	0,322803313
s_Arthothelium_spectabile	0,322803313
Endophyte	0,083238591
s_Trichoderma_asperellum	0,069027124
s_Ampelomyces_quisqualis	0,012181257
s_Metschnikowia_pulcherrima	0,00203021
Animal Endosymbiont	0,010151048
s_Smittium_morbosum	0,010151048
sin clasificar	6,482458989
-	6,482458989
s_Dactylonectria_alcacerensis	3,44932597
s_Chaetosphaeronema_sp.	0,706512912
s_Paraphoma_sp.	0,525824265
s_Pustularia_sp.	0,438525256
s_Oedocephalum_adhaerens	0,397921065
s_Lyomyces_sp.	0,259866818
s_Setophaeosphaeria_sp.	0,243625142
s_Neostagonospora_caricis	0,188809485
s_Lipomyces_sp.	0,182718857
s_Kurtzmanomyces_sp.	0,036543771
s_Paraphoma_chrysanthemicola	0,020302095
s_Lipomyces_tetrasporus	0,018271886

s_Clohesyomyces_sp.	0,008120838
s_Radulidium_subulatum	0,004060419
s_Hanseniaspora_osmophila	0,00203021

Total general	100
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**EL BRUC
CTF (R431)**

Nº Especies totales identificadas	302
Nº Patógenos	132
Nº Saprófitos	112
Nº Saprófitos-simbiontes	58
Nº Simbiontes	27
Nº especies no clasificadas	16

Etiquetas de fila	Suma de AQ703T
Patógeno	44,72122857

Animal Pathogen-Endophyte-Epiphyte-Undefined Saprotroph	18,82802511
s_Cryptococcus_terreus	7,103966441
s_Cryptococcus_aerius	3,661882803
s_Cryptococcus_podzolicus	2,99242914
s_Cryptococcus_bhutanensis	1,925038429
s_Cryptococcus_sp.	1,383441796
s_Cryptococcus_friedmannii	0,7254809
s_Cryptococcus_laurentii	0,379261302
s_Cryptococcus_terricola	0,333290235
s_Cryptococcus_saitoi	0,146532776
s_Cryptococcus_magnus	0,073266388
s_Cryptococcus_adeliensis	0,041661279
s_Cryptococcus_chernovii	0,027295321
s_Cryptococcus_victoriae	0,025858725
s_Cryptococcus_filicatus	0,007182979
s_Cryptococcus_wieringae	0,001436596
Plant Pathogen	6,550877039
s_Penicillium_expansum	1,081756669
s_Pyrenophora_triseptata	1,038658794
s_Phaeoacremonium_hungaricum	0,890689422
s_Curvularia_inaequalis	0,663707279
s_Monographella_cucumerina	0,509991524
s_Botryotinia_fuckeliana	0,407993219
s_Stagonosporopsis_dorenboschii	0,364895344
s_Haematonectria_haematococca	0,346219598
s_Curvularia_australiensis	0,32467066
s_Trichothecium_roseum	0,152279159
s_Penicillium_glabrum	0,114927667
s_Truncatella_laurocerasi	0,100561709
s_Devriesia_sp.	0,081885963
s_Cylindrocarpon_sp.	0,077576175
s_Pestalotiopsis_rosea	0,077576175
s_Ilyonectria_robusta	0,061773621

s_Lewia_infectoria	0,056027238
s_Microdiplodia_sp.	0,041661279
s_Penicillium_citrinum	0,030168513
s_Thanatephorus_sp.	0,028731917
s_Pestalotiopsis_sp.	0,024422129
s_Podosphaera_astericola	0,018675746
s_Clonostachys_rosea	0,01723915
s_Uncinula_necator	0,007182979
s_Dactylaria_sp.	0,005746383
s_Leptosphaeria_heterospora	0,005746383
s_Trichothecium_ovalisporum	0,004309788
s_Pseudoseptoria_donacis	0,002873192
s_Chalastospora_obclavata	0,002873192
s_Pythium_rostratum	0,002873192
s_Devriesia_agapanthi	0,001436596
s_Bipolaris_eleusines	0,001436596
s_Aphanomyces_cochlioides	0,001436596
s_Septoria_sp.	0,001436596
s_Neonectria_sp.	0,001436596
Animal Pathogen-Undefined Saprotroph	3,783993449
s_Aspergillus_fumigatus	3,3170998
s_Exophiala_equina	0,209742993
s_Exophiala_xenobiotica	0,112054476
s_Geotrichum_candidum	0,054590642
s_Ajellomyces_crescens	0,053154046
s_Geotrichum_klebahnii	0,033041704
s_Malassezia_restricta	0,002873192
s_Malassezia_sp.	0,001436596
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Soil Saprotroph-Wood Saprotroph	2,531281875
s_Fusarium_equiseti	2,229596748
s_Fusarium_acuminatum	0,274389806
s_Fusarium_pseudensiforme	0,01723915
s_Fusarium_poae	0,005746383
s_Fusarium_beomiforme	0,004309788
Endophyte-Fungal Parasite-Plant Pathogen	2,27700441
s_Verticillium_dahliae	2,27700441
Animal Pathogen-Endophyte-Fungal Parasite-Plant Pathogen-Wood Saprotroph	2,152020573
s_Acremonium_persicinum	1,51704521
s_Acremonium_alternatum	0,369205132
s_Acremonium_stromaticum	0,153715755
s_Acremonium_sp.	0,090505538
s_Acremonium_rutilum	0,01723915
s_Acremonium_implicatum	0,004309788
Endophyte-Fungal Parasite-Lichen Parasite-Plant Pathogen-Wood Saprotroph	1,626226494
s_Epicoccum_nigrum	1,626226494
Animal Pathogen	1,113361776
s_Aspergillus_japonicus	0,343346406

s_Beauveria_sp.	0,185320864
s_Coniochaeta_cateniformis	0,160898734
s_Aspergillus_ochraceus	0,077576175
s_Metarhizium_anisopliae	0,053154046
s_Aspergillus_sydowii	0,05171745
s_Hanseniaspora_uvarum	0,050280854
s_Aspergillus_insuetus	0,047407663
s_Aspergillus_wentii	0,043097875
s_Madurella_sp.	0,041661279
s_Lecanicillium_dimorphum	0,021548938
s_Hirsutella_minnesotensis	0,018675746
s_Aspergillus_quadri-lineatus	0,015802554
s_Metacordyceps_chlamydosporia	0,002873192
Animal Pathogen-Dung Saprotroph-Endophyte-Epiphyte-Plant Saprotroph-Wood Saprotroph	1,087503053
s_Chaetomium_sp.	1,087503053
Animal Pathogen-Endophyte-Plant Pathogen-Wood Saprotroph	1,032912411
s_Alternaria_atra	0,943843469
s_Alternaria_soliaridae	0,087632346
s_Alternaria_alternata	0,001436596
Ectomycorrhizal-Fungal Parasite-Soil Saprotroph-Undefined Saprotroph	0,938097085
s_Entoloma_platyphylloides	0,923731127
s_Entoloma_perumbilicatum	0,014365958
Endophyte-Plant Pathogen-Wood Saprotroph	0,537286845
s_Chalara_sp.	0,46976684
s_Periconia_sp.	0,064646813
s_Chalara_vaccinii	0,002873192
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Wood Saprotroph	0,333290236
s_Cladosporium_exasperatum	0,33185364
s_Cladosporium_fusifforme	0,001436596
Plant Pathogen-Wood Saprotroph	0,219799164
s_Cladosporium_herbarum	0,136476605
s_Coniothyrium_sidae	0,053154046
s_Peniophora_sp.	0,028731917
s_Cephalosporium_serrae	0,001436596
Animal Pathogen-Endophyte-Plant Saprotroph-Soil Saprotroph-Undefined Saprotroph-Wood Saprotroph	0,186757459
s_Aspergillus_piperis	0,181011076
s_Aspergillus_fumisynnematus	0,005746383
Endophyte-Dung Saprotroph-Lichen Parasite-Litter Saprotroph-Plant Pathogen-Soil Saprotroph-Wood Saprotroph	0,185320864
s_Phoma_sp.	0,185320864
Animal Endosymbiont-Animal Pathogen-Endophyte-Plant Pathogen-Undefined Saprotroph	0,172391501
s_Rhodotorula_sp.	0,089068942
s_Rhodotorula_lamellibrachiae	0,077576175
s_Rhodotorula_nothofagi	0,002873192
s_Rhodotorula_cresolica	0,001436596
s_Rhodotorula_mucilaginoso	0,001436596

Animal Pathogen-Endosymbiont-Undefined Saprotroph	0,129293626
s_Candida_stellata	0,129293626
Epiphyte-Plant Pathogen-Wood Saprotroph	0,123547242
s_Diplodia_seriate	0,123547242
Endophyte-Plant Pathogen	0,11061788
s_Periconia_prolifca	0,087632346
s_Thermomyces_lanuginosus	0,020112342
s_Microdochium_sp.	0,002873192
Endophyte-Fungal Parasite	0,081885963
s_Hyphocrea_virens	0,081885963
Dung Saprotroph-Plant Pathogen	0,081885963
s_Coprinus_phaeopunctatus	0,081885963
Endophyte-Lichen Parasite-Undefined Saprotroph	0,077576175
s_Pyrenochaetopsis_leptospora	0,077576175
Endophyte-Plant Pathogen-Undefined Saprotroph	0,07613958
s_Pleospora_herbarum	0,07613958
Animal Pathogen-Plant Pathogen-Undefined Saprotroph	0,067520004
s_Didymella_urticicola	0,060337025
s_Coniosporium_sp.	0,007182979
Ectomycorrhizal-Endophyte-Plant Pathogen-Wood Saprotroph	0,05890043
s_Chloridium_sp.	0,05890043
Bryophyte Parasite-Ectomycorrhizal-Ericoid Mycorrhizal-Undefined Saprotroph	0,05890043
s_Hymenoscyphus_sp.	0,05890043
Ericoid Mycorrhizal	0,05171745
s_Oidiodendron_sp.	0,05171745
Animal Pathogen-Endophyte-Ericoid Mycorrhizal-Plant Pathogen-Wood Saprotroph	0,050280854
s_Phialophora_sp.	0,050280854
Animal Pathogen-Endophyte-Epiphyte-Plant Pathogen	0,041661279
s_Aureobasidium_pullulans	0,041661279
Bryophyte Parasite-Litter Saprotroph-Wood Saprotroph	0,041661279
s_Pluteus_sp.	0,041661279
NULL	0,031605109
s_Cordana_sp.	0,031605109
Fungal Parasite-Litter Saprotroph	0,020112342
s_Sporobolomyces_sp.	0,020112342
Fungal Parasite-Undefined Saprotroph	0,018675746
s_Bionectria_ralfsii	0,018675746
Animal Pathogen-Endophyte-Plant Pathogen-Undefined Saprotroph	0,015802554
s_Microascus_brevicaulis	0,015802554
Animal Pathogen-Dung Saprotroph-Endophyte-Lichen Parasite-Plant Pathogen-Undefined Saprotroph	0,012929363
s_Coniochaeta_mutabilis	0,012929363
Animal Pathogen-Endophyte-Plant Saprotroph-Soil Saprotroph	0,011492767
s_Sporothrix_inflata	0,011492767
Endophyte-Epiphyte-Fungal Parasite-Plant Pathogen-Wood Saprotroph	0,002873192
s_Trichoderma_velutinum	0,002873192
Saprófito	24,74823658
Undefined Saprotroph	10,41675646

s_Auricularia_sp.	2,374692928
s_Oliveonia_pauxilla	1,830223103
s_Tetracladium_sp.	0,932350702
s_Phaeosphaeria_sp.	0,711114942
s_Ochroconis_tshawytschae	0,537286845
s_Cistella_sp.	0,499935353
s_Arthrotrys_sp.	0,363458748
s_Hormonema_sp.	0,344783002
s_Calycina_claroflava	0,275826402
s_Erythrobasidium_hasegawianum	0,199686822
s_Dactylella_intermedia	0,18675746
s_Clavulinopsis_sp.	0,166645118
s_Paraphaeosphaeria_pilleata	0,123547242
s_Scolecobasidium_sp.	0,122110647
s_Arthrotrys_conoides	0,100561709
s_Sclerostagonospora_sp.	0,081885963
s_Umbelopsis_sp.	0,07613958
s_Geminibasidium_sp.	0,073266388
s_Talaromyces_rugulosus	0,070393196
s_Paraconiothyrium_variabile	0,067520005
s_Scutellinia_sp.	0,067520005
s_Absidia_spinosa	0,064646813
s_Filobasidium_floriforme	0,063210217
s_Ochroconis_sp.	0,057463834
s_Lycoperdon_pratense	0,057463834
s_Guehomyces_pullulans	0,05171745
s_Xenopolyscytalum_pinea	0,045971067
s_Ochrocladosporium_elatum	0,045971067
s_Paraconiothyrium_africanum	0,044534471
s_Conlarium_sp.	0,044534471
s_Leptodiscella_sp.	0,041661279
s_Coprinellus_sabulicola	0,038788088
s_Lophiostoma_sp.	0,038788088
s_Arthrographis_sp.	0,038788088
s_Articulospora_sp.	0,037351492
s_Saccharomyces_cerevisiae	0,035914896
s_Cladophialophora_chaetospira	0,0344783
s_Hydropisphaera_erubescens	0,0344783
s_Zygorhynchus_sp.	0,0344783
s_Polytolypa_hystricis	0,033041704
s_Warcupia_sp.	0,031605109
s_Ramicandelaber_sp.	0,027295321
s_Cladophialophora_sp.	0,025858725
s_Spiromastix_princeps	0,024422129
s_Dactylella_zhongdianensis	0,022985533
s_Rosellinia_thelena	0,020112342
s_Byssochlamys_spectabilis	0,018675746
s_Preussia_flanagani	0,01723915

s_Coprinellus_radians	0,01723915
s_Myrothecium_sp.	0,015802554
s_Coprinellus_sp.	0,014365958
s_Glarea_lozoyensis	0,014365958
s_Parasola_auricoma	0,012929363
s_Wardomyces_inflatus	0,011492767
s_Capnobotryella_sp.	0,010056171
s_Coprinellus_deminutus	0,010056171
s_Pholiota_chocenensis	0,007182979
s_Clitopilus_hobsonii	0,007182979
s_Ijuhya_paraparilis	0,007182979
s_Cunninghamella_echinulata	0,005746383
s_Mucor_bainieri	0,005746383
s_Cephalotheca_sulfurea	0,005746383
s_Ophiosphaerella_sp.	0,004309788
s_Triangularia_backusii	0,004309788
s_Catenulifera_sp.	0,004309788
s_Clavaria_sp.	0,002873192
s_Petriella_guttulata	0,002873192
s_Dactylella_oxyspora	0,002873192
s_Myrmecridium_sp.	0,002873192
s_Cylindrotrichum_gorii	0,002873192
s_Preussia_sp.	0,001436596
s_Helicosporium_guianense	0,001436596
s_Arthrinium_malaysianum	0,001436596
s_Fusidium_griseum	0,001436596
s_Lophium_sp.	0,001436596
Soil Saprotroph	6,875547702
s_Lepiota_brunneoincarnata	6,763493226
s_Melanoleuca_communis	0,09337873
s_Geomyces_asperulatus	0,011492767
s_Melanoleuca_pseudoluscina	0,007182979
Dung Saprotroph-Undefined Saprotroph-Wood Saprotroph	4,316970506
s_Penicillium_nodositatum	2,423537186
s_Penicillium_meridianum	1,200994124
s_Penicillium_subrubescens	0,308868106
s_Penicillium_sp.	0,160898734
s_Penicillium_megasporum	0,136476605
s_Penicillium_bilaiae	0,057463834
s_Penicillium_westlingii	0,008619575
s_Penicillium_corylophilum	0,008619575
s_Penicillium_quercetorum	0,008619575
s_Penicillium_abidjanum	0,002873192
Undefined Saprotroph-Wood Saprotroph	1,455271588
s_Humicola_grisea	1,222543062
s_Pyrenochaeta_sp.	0,070393196
s_Chrysosporium_pilosum	0,060337025
s_Chrysosporium_lobatum	0,054590642

s_Chrysosporium_sp.	0,038788088
s_Humicola_sp.	0,008619575
Dung Saprotroph	1,093249435
s_Schizothecium_glutinans	0,543033228
s_Zopfiella_sp.	0,281572785
s_Zopfiella_marina	0,165208522
s_Cercophora_sp.	0,066083409
s_Schizothecium_carpinicola	0,022985533
s_Podospora_communis	0,014365958
Wood Saprotroph	0,492752374
s_Bactrodesmium_longisporum	0,170954905
s_Stachybotrys_chartarum	0,135040009
s_Stachybotrys_sp.	0,079012771
s_Phanerochaete_avellanea	0,067520005
s_Scytalidium_sp.	0,021548938
s_Laetiporus_sulphureus	0,008619575
s_Tapinella_panuoides	0,005746383
s_Aporospora_terricola	0,002873192
s_Stachybotrys_elegans	0,001436596
Leaf Saprotroph	0,061773621
s_Cystofilobasidium_macerans	0,061773621
Dung Saprotroph-Undefined Saprotroph	0,035914896
s_Thielavia_basicola	0,035914896
Saprófito-simbionte	17,84683015
Endophyte-Litter Saprotroph-Soil Saprotroph-Undefined Saprotroph	17,2420233
s_Mortierella_sp.	7,138444741
s_Mortierella_beljakovae	5,951816575
s_Mortierella_clonocystis	1,940840983
s_Mortierella_elongata	1,85895502
s_Mortierella_exigua	0,350529386
s_Mortierella_alpina	0,001436596
Clavicipitaceous Endophyte-Undefined Saprotroph-Wood Saprotroph	0,192503843
s_Paecilomyces_marquandii	0,119237455
s_Paecilomyces_penicillatus	0,070393196
s_Paecilomyces_verrucosus	0,002873192
Dung Saprotroph-Endophyte-Litter Saprotroph-Undefined Saprotroph	0,188194055
s_Podospora_sp.	0,188194055
Animal Endosymbiont-Undefined Saprotroph	0,099125113
s_Pichia_membranifaciens	0,073266388
s_Pichia_kluyveri	0,025858725
Ectomycorrhizal-Undefined Saprotroph-Wood Saprotroph	0,090505538
s_Morchella_quercus-ilicis	0,090505538
Dung Saprotroph-Ectomycorrhizal-Litter Saprotroph-Undefined Saprotroph	0,031605109
s_Peziza_sp.	0,031605109
Dung Saprotroph-Endophyte-Wood Saprotroph	0,002873192
s_Stilbella_byssiseda	0,002873192
Simbionte	10,1940841
Ectomycorrhizal	6,398597883

s_Tomentella_sp.	3,885991754
s_Cortinarius_sp.	1,025729432
s_Rhizopogon_roseolus	0,543033228
s_Terfezia_sp.	0,471203436
s_Pseudotomentella_sp.	0,237038314
s_Pulvinula_sp.	0,112054476
s_Cortinarius_platypus	0,037351492
s_Suillus_collinitus	0,025858725
s_Clavulina_rugosa	0,022985533
s_Thelephora_sp.	0,01723915
s_Suillus_mediterraneensis	0,011492767
s_Inocybe_jacobi	0,004309788
s_Sphaerosporella_sp.	0,004309788
Endophyte	2,159203552
s_Capronia_sp.	0,969702194
s_Cadophora_finlandica	0,966829002
s_Cladosporium_sphaerospermum	0,163771926
s_Phialocephala_fortinii	0,024422129
s_Penicillium_brevicompactum	0,021548938
s_Phialocephala_fusca	0,008619575
s_Cadophora_luteo-olivacea	0,004309788
Orchid Mycorrhizal	1,41361031
s_Serendipita_sp.	1,380568605
s_Serendipita_vermifera	0,028731917
s_Serendipita_herbamans	0,004309788
Lichenized	0,183884267
s_Leptosphaerulina_trifolii	0,160898734
s_Arthothelium_spectabile	0,022985533
Arbuscular Mycorrhizal	0,028731917
s_Claroideoglossum_sp.	0,028731917
Ectomycorrhizal-Orchid Mycorrhizal-Root Associated Biotroph	0,010056171
s_Sebacina_sp.	0,010056171
sin clasificar	2,489620594
-	2,489620594
s_Holtermannia_corniformis	0,89499921
s_Pustularia_sp.	0,729790688
s_Brettanomyces_brucei	0,244221293
s_Neopecticia_coulteri	0,205433205
s_Dactylonectria_alcacerensis	0,133603413
s_Paraphoma_sp.	0,090505538
s_Neostagonospora_caricis	0,089068942
s_Hispidoconidioma_sp.	0,027295321
s_Oedocephalum_adhaerens	0,025858725
s_Oedocephalum_sp.	0,018675746
s_Radulidium_subulatum	0,014365958
s_Wojnowicia_viburni	0,007182979
s_Lipomyces_tetrasporus	0,002873192
s_Paraphoma_chrysanthemicola	0,002873192

s_Setophoma_terrestris	0,001436596
s_Metschnikowia_sp.	0,001436596
Total general	100

EL BRUC
SUBZONA CAMPO (A34)

Nº Especies totales identificadas	299
Nº Patógenos	125
Nº Saprófitos	174
Nº Saprófitos-simbiontes	16
Nº Simbiontes	27
Nº especies no clasificadas	18

Etiquetas de fila	Suma de AQ703U
Patógeno	54,27861011
Animal Pathogen-Endophyte-Epiphyte-Undefined Saprotrroph	26,67045957
s_Cryptococcus_terreus	8,833259582
s_Cryptococcus_aerius	5,879006258
s_Cryptococcus_podzolicus	4,279663696
s_Cryptococcus_bhutanensis	2,528604842
s_Cryptococcus_sp.	2,360031186
s_Cryptococcus_terricola	1,108371789
s_Cryptococcus_friedmannii	0,587900626
s_Cryptococcus_laurentii	0,459363213
s_Cryptococcus_magnus	0,214931412
s_Cryptococcus_saitoi	0,168573656
s_Cryptococcus_victoriae	0,077965316
s_Cryptococcus_adeliensis	0,071643804
s_Cryptococcus_filicatus	0,052679268
s_Cryptococcus_chernovii	0,048464926
Plant Pathogen	6,233010937
s_Penicillium_expansum	1,881703437
s_Monographella_cucumerina	1,706808269
s_Botryotinia_fuckeliana	0,497292286
s_Haematonectria_haematococca	0,478327749
s_Truncatella_laurocerasi	0,326611459
s_Stagonosporopsis_dorenboschii	0,318182776
s_Clonostachys_rosea	0,12010873
s_Curvularia_australiensis	0,107465706
s_Devriesia_sp.	0,105358535
s_Phaeoacremonium_hungaricum	0,096929852
s_Typhula_japonica	0,088501169
s_Cylindrocarpon_sp.	0,075858145
s_Penicillium_glabrum	0,067429462
s_Cercospora_apii	0,056893609
s_Olpidium_brassicae	0,052679268
s_Pyrenophora_triseptata	0,048464926

s_Stagonospora_sp.	0,040036243
s_Penicillium_citrinum	0,035821902
s_Cochliobolus_geniculatus	0,027393219
s_Discohainesia_oenotherae	0,025286048
s_Pestalotiopsis_rosea	0,016857366
s_Trichothecium_roseum	0,014750195
s_Devriesia_agapanthi	0,010535854
s_Leptosphaeria_sp.	0,010535854
s_Monographella_sp.	0,010535854
s_Macrophomina_phaseolina	0,006321512
s_Volutella_ciliata	0,004214341
s_Lewia_infectoria	0,002107171
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Soil Saprotroph- Wood Saprotroph	3,280864782
s_Fusarium_equiseti	3,116505468
s_Fusarium_acuminatum	0,111680047
s_Fusarium_sp.	0,048464926
s_Fusarium_pseudensiforme	0,004214341
Endophyte-Fungal Parasite-Plant Pathogen	3,06171903
s_Verticillium_dahliae	3,06171903
Animal Pathogen	2,25256548
s_Aspergillus_japonicus	0,93136945
s_Aspergillus_wentii	0,362433361
s_Coniochaeta_cateniformis	0,252860484
s_Aspergillus_ochraceus	0,136966096
s_Lecanicillium_dimorphum	0,096929852
s_Beauveria_sp.	0,082179657
s_Trichosporon_dehoogii	0,05900078
s_Metarhizium_anisopliae	0,05900078
s_Aspergillus_quadri-lineatus	0,05900078
s_Aspergillus_sydowii	0,056893609
s_Hanseniaspora_uvarum	0,048464926
s_Hirsutella_minnesotensis	0,046357755
s_Lecanicillium_psalliotae	0,037929073
s_Beauveria_pseudobassiana	0,006321512
s_Aspergillus_insuetus	0,006321512
s_Pochonia_bulbillosa	0,004214341
s_Metacordyceps_chlamydosporia	0,004214341
s_Trichosporon_asahii	0,002107171
Animal Pathogen-Endophyte-Fungal Parasite-Plant Pathogen-Wood Saprotroph	1,993383485
s_Acremonium_alternatum	1,300124323
s_Acremonium_stromaticum	0,29921824
s_Acremonium_sp.	0,200181217
s_Acremonium_persicinum	0,151716291
s_Acremonium_rutilum	0,033714731
s_Acremonium_pilosum	0,006321512
s_Acremonium_fusidioides	0,002107171
Animal Pathogen-Undefined Saprotroph	1,369660957

s_Aspergillus_fumigatus	0,724866721
s_Exophiala_equina	0,170680827
s_Ajellomyces_crescens	0,122215901
s_Malassezia_globosa	0,107465706
s_Exophiala_xenobiotica	0,094822682
s_Geotrichum_candidum	0,065322292
s_Cyphellophora_sp.	0,042143414
s_Malassezia_restricta	0,018964536
s_Exophiala_lacus	0,014750195
s_Cyphellophora_vermispora	0,008428683
Animal Pathogen-Endophyte-Plant Pathogen-Wood Saprotrroph	1,247445056
s_Alternaria_atra	0,946119645
s_Alternaria_soliaridae	0,29921824
s_Alternaria_alternata	0,002107171
Animal Pathogen-Dung Saprotrroph-Endophyte-Epiphyte-Plant Saprotrroph-Wood Saprotrroph	1,198980129
s_Chaetomium_sp.	1,123121984
s_Chaetomium_iranianum	0,046357755
s_Chaetomium_trigonosporum	0,018964536
s_Chaetomium_caprinum	0,010535854
Endophyte-Plant Pathogen-Wood Saprotrroph	1,175801252
s_Chalara_sp.	0,969298523
s_Torula_sp.	0,204395558
s_Periconia_sp.	0,002107171
Ectomycorrhizal-Fungal Parasite-Soil Saprotrroph-Undefined Saprotrroph	1,175801252
s_Entoloma_platyphylloides	1,16947974
s_Entoloma_perumbilicatum	0,006321512
Endophyte-Lichen Parasite-Undefined Saprotrroph	0,984048718
s_Pyrenochaetopsis_leptospora	0,984048718
Endophyte-Fungal Parasite-Lichen Parasite-Plant Pathogen-Wood Saprotrroph	0,958762669
s_Epicoccum_nigrum	0,958762669
Animal Endosymbiont-Animal Pathogen-Endophyte-Plant Pathogen-Undefined Saprotrroph	0,476220579
s_Rhodotorula_mucilaginoso	0,280253703
s_Rhodotorula_lamellibrachiae	0,193859705
s_Rhodotorula_cresolica	0,002107171
Endophyte-Plant Pathogen	0,453041701
s_Periconia_prolifica	0,36032619
s_Microdochium_bolleyi	0,067429462
s_Rhizopycnis_vagum	0,016857366
s_Thermomyces_lanuginosus	0,008428683
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Wood Saprotrroph	0,402469604
s_Cladosporium_exasperatum	0,402469604
Animal Pathogen-Endophyte-Plant Saprotrroph-Soil Saprotrroph-Undefined Saprotrroph-Wood Saprotrroph	0,356111849
s_Aspergillus_piperis	0,318182776
s_Aspergillus_amstelodami	0,037929073
Plant Pathogen-Wood Saprotrroph	0,284468045
s_Coniothyrium_sidae	0,225467265

s_Cladosporium_herbarum	0,037929073
s_Coniothyrium_sp.	0,021071707
Endophyte-Plant Pathogen-Undefined Saprotrroph	0,145394778
s_Pleospora_herbarum	0,145394778
Animal Pathogen-Endophyte-Epiphyte-Plant Pathogen	0,134858925
s_Aureobasidium_pullulans	0,134858925
Fungal Parasite-Lichen Parasite	0,065322292
s_Tremella_sp.	0,065322292
Animal Pathogen-Animal Endosymbiont	0,054786438
s_Issatchenkia_orientalis	0,054786438
Animal Pathogen-Wood Saprotrroph	0,048464926
s_Aspergillus_terreus	0,048464926
Animal Pathogen-Plant Pathogen-Undefined Saprotrroph	0,046357755
s_Coniosporium_sp.	0,046357755
Endophyte-Fungal Parasite	0,040036243
s_Hypocrea_virens	0,040036243
Animal Pathogen-Plant Pathogen-Wood Saprotrroph	0,033714731
s_Aspergillus_flavus	0,033714731
Fungal Parasite	0,02950039
s_Purpureocillium_lilacinum	0,02950039
Ectomycorrhizal-Endophyte-Plant Pathogen-Wood Saprotrroph	0,02950039
s_Chloridium_sp.	0,02950039
Animal Pathogen-Dung Saprotrroph-Endophyte-Lichen Parasite-Plant Pathogen-Undefined Saprotrroph	0,02950039
s_Coniochaeta_sp.	0,02950039
Animal Pathogen-Endophyte-Fungal Parasite-Lichen Parasite-Plant Pathogen-Wood Saprotrroph	0,016857366
s_Nectria_ramulariae	0,016857366
Animal Pathogen-Endosymbiont-Undefined Saprotrroph	0,012643024
s_Candida_stellata	0,012643024
Animal Pathogen-Clavicipitaceous Endophyte-Fungal Parasite	0,008428683
s_Cordyceps_bassiana	0,008428683
Ericoid Mycorrhizal	0,006321512
s_Oidiodendron_sp.	0,006321512
Epiphyte-Plant Pathogen-Wood Saprotrroph	0,002107171
s_Diplodia_seriate	0,002107171
Saprófito	24,04492489
Undefined Saprotrroph	8,485576422
s_Tetracladium_sp.	1,630950123
s_Gymnostellatospora_frigida	1,285374128
s_Hormonema_sp.	0,590007797
s_Ascorhizoctonia_sp.	0,552078724
s_Clavulinopsis_sp.	0,545757212
s_Filobasidium_floriforme	0,335040142
s_Ochroconis_tshawytschae	0,288682386
s_Calycina_claroflava	0,233895948
s_Monocillium_indicum	0,219145753
s_Sporormiella_sp.	0,172787998
s_Erythrobasidium_hasegawianum	0,172787998

s_Cladophialophora_sp.	0,141180437
s_Conocybe_subpubescens	0,136966096
s_Scolecobasidium_sp.	0,130644584
s_Absidia_spinosa	0,12010873
s_Talaromyces_stollii	0,096929852
s_Scolecobasidium_tshawytschae	0,088501169
s_Geoglossum_sp.	0,086393999
s_Myrothecium_sp.	0,084286828
s_Talaromyces_barcinensis	0,080072487
s_Coprinellus_sabulicola	0,080072487
s_Sagenomella_diversispora	0,075858145
s_Clavaria_californica	0,073750975
s_Guehomyces_pullulans	0,073750975
s_Lophiostoma_sp.	0,071643804
s_Phaeococcomyces_aloes	0,056893609
s_Barnettozyma_vustinii	0,054786438
s_Sarcocladium_strictum	0,052679268
s_Arthrobotrys_sp.	0,048464926
s_Dactylella_oxyspora	0,048464926
s_Idriella_rara	0,044250585
s_Catenulifera_sp.	0,042143414
s_Phaeosphaeria_sp.	0,040036243
s_Preussia_sp.	0,037929073
s_Coprinopsis_phlyctidospora	0,037929073
s_Glarea_lozoyensis	0,037929073
s_Ochrocladosporium_sp.	0,035821902
s_Ramicandelaber_sp.	0,035821902
s_Polytolypa_hystricis	0,035821902
s_Talaromyces_purpureogenus	0,033714731
s_Lacrymaria_lacrymabunda	0,033714731
s_Paraconiothyrium_fuckelii	0,031607561
s_Oliveonia_pauxilla	0,031607561
s_Arthrimum_sacchari	0,027393219
s_Scutellinia_torrentis	0,025286048
s_Absidia_glauca	0,025286048
s_Antarctomyces_psychrotrophicus	0,023178878
s_Saccharomyces_cerevisiae	0,023178878
s_Arthrobotrys_conoides	0,021071707
s_Neurospora_terricola	0,018964536
s_Leptodiscella_chlamydospora	0,016857366
s_Eudarluka_caricis	0,016857366
s_Coprinopsis_ochraceolanata	0,014750195
s_Wardomyces_inflatus	0,014750195
s_Agaricus_comtulus	0,014750195
s_Phaeosphaeria_juncicola	0,012643024
s_Coniocessia_nodulisporioides	0,012643024
s_Pterula_sp.	0,008428683
s_Leptodiscella_sp.	0,008428683

s_Dioszegia_hungarica	0,008428683
s_Mucor_bainieri	0,008428683
s_Leuconeurospora_sp.	0,008428683
s_Preussia_flanaganii	0,006321512
s_Mucor_mucedo	0,006321512
s_Wardomyces_humicola	0,006321512
s_Mucor_hiemalis	0,006321512
s_Auxarthron_alboluteum	0,006321512
s_Thermoascus_sp.	0,004214341
s_Actinomucor_elegans	0,004214341
s_Tricladium_sp.	0,004214341
s_Mucor_genevensis	0,004214341
s_Pseudallescheria_fimeti	0,004214341
s_Hansfordia_sp.	0,002107171
s_Sclerostagonospora_sp.	0,002107171
s_Umbelopsis_sp.	0,002107171
s_Hydropisphaera_erubescens	0,002107171
s_Wardomycopsis_sp.	0,002107171
s_Scedosporium_dehoogii	0,002107171
s_Delicatula_integrella	0,002107171
s_Helicosporium_guianense	0,002107171
Soil Saprotroph	6,789304002
s_Lepiota_brunneoincarnata	6,549086542
s_Melanoleuca_communis	0,24021746
Dung Saprotroph-Undefined Saprotroph-Wood Saprotroph	4,153233455
s_Penicillium_nodositatum	3,146005858
s_Penicillium_subrubescens	0,29921824
s_Penicillium_meridianum	0,250753314
s_Penicillium_sizovae	0,229681607
s_Penicillium_bilaiae	0,195966875
s_Penicillium_paneum	0,008428683
s_Penicillium_parvulum	0,008428683
s_Penicillium_buchwaldii	0,006321512
s_Penicillium_sp.	0,004214341
s_Penicillium_levitum	0,002107171
s_Penicillium_bialowiezense	0,002107171
Undefined Saprotroph-Wood Saprotroph	3,99098131
s_Humicola_grisea	2,524390501
s_Pyrenochaeta_sp.	0,889226036
s_Chrysosporium_lobatum	0,398255263
s_Humicola_sp.	0,14960912
s_Chrysosporium_pilosum	0,02950039
Dung Saprotroph	0,265503508
s_Cercophora_sp.	0,166466485
s_Zopfiella_sp.	0,048464926
s_Schizothecium_glutinans	0,025286048
s_Schizothecium_carpinicola	0,023178878
s_Schizothecium_sp.	0,002107171

Wood Saprotroph	0,248646142
s_Lindtneria_sp.	0,071643804
s_Scytalidium_circinatum	0,065322292
s_Trechispora_sp.	0,033714731
s_Stachybotrys_sp.	0,025286048
s_Stachybotrys_chartarum	0,021071707
s_Chaetomium_erectum	0,014750195
s_Laetiporus_sulphureus	0,012643024
s_Psathyrella_candolleana	0,004214341
Leaf Saprotroph	0,103251364
s_Cystofilobasidium_macerans	0,103251364
Dung Saprotroph-Undefined Saprotroph	0,008428683
s_Chaetomidium_galaicum	0,008428683
Saprófito-simbionte	14,09065049
Endophyte-Litter Saprotroph-Soil Saprotroph-Undefined Saprotroph	12,96120699
s_Mortierella_sp.	6,405798934
s_Mortierella_elongata	4,894957541
s_Mortierella_clonocystis	1,394947005
s_Mortierella_dichotoma	0,17910951
s_Mortierella_oligospora	0,054786438
s_Mortierella_amoeboida	0,031607561
Dung Saprotroph-Endophyte-Litter Saprotroph-Undefined Saprotroph	0,804939208
s_Podospora_multipilosa	0,697473502
s_Podospora_sp.	0,107465706
Clavicipitaceous Endophyte-Undefined Saprotroph-Wood Saprotroph	0,170680828
s_Paecilomyces_marquandii	0,122215901
s_Paecilomyces_penicillatus	0,031607561
s_Paecilomyces_sp.	0,016857366
Dung Saprotroph-Ectomycorrhizal-Litter Saprotroph-Undefined Saprotroph	0,084286828
s_Peziza_subcitrina	0,084286828
Animal Endosymbiont-Undefined Saprotroph	0,048464926
s_Pichia_membranifaciens	0,048464926
Endophyte-Litter Saprotroph-Wood Saprotroph	0,010535854
s_Chaetosphaeria_sp.	0,010535854
Dung Saprotroph-Endophyte-Wood Saprotroph	0,006321512
s_Stilbella_sp.	0,006321512
Endophyte-Undefined Saprotroph-Wood Saprotroph	0,004214341
s_Xylaria_sp.	0,004214341
Simbionte	4,414522622
Ectomycorrhizal	2,185136019
s_Cortinarius_sp.	0,891333207
s_Terfezia_sp.	0,674294625
s_Rhizopogon_roseolus	0,309754093
s_Tomentella_sp.	0,166466485
s_Suillus_collinitus	0,052679268
s_Suillus_mediterraneensis	0,048464926
s_Epulothiza_sp.	0,02950039
s_Clavulina_rugosa	0,008428683

s_Pisolithus_arhizus	0,002107171
s_Sphaerosporella_sp.	0,002107171
Endophyte	1,685736563
s_Capronia_sp.	1,451840614
s_Cladosporium_sphaerospermum	0,101144194
s_Acrostalagmus_luteoalbus	0,067429462
s_Metschnikowia_pulcherrima	0,031607561
s_Retroconis_fusiformis	0,02950039
s_Cadophora_luteo-olivacea	0,002107171
s_Penicillium_brevicompactum	0,002107171
Arbuscular Mycorrhizal	0,250753313
s_Claroideoglomus_sp.	0,141180437
s_Diversispora_celata	0,05900078
s_Glomus_sp.	0,025286048
s_Archaeospora_sp.	0,014750195
s_Funneliformis_mosseae	0,006321512
s_Ambispora_gerdemannii	0,004214341
Orchid Mycorrhizal	0,164359315
s_Serendipita_sp.	0,164359315
Lichenized	0,067429462
s_Degelia_plumbea	0,048464926
s_Arthothelium_spectabile	0,018964536
Ectomycorrhizal-Orchid Mycorrhizal-Root Associated Biotroph	0,06110795
s_Sebacina_sp.	0,06110795
sin clasificar	3,171291908
-	3,171291908
s_Holtermannia_corniformis	0,617401016
s_Brettanomyces_brucei	0,486756432
s_Chaetosphaeronema_sp.	0,396148092
s_Setophaeosphaeria_sp.	0,341361654
s_Dactylonectria_alcacerensis	0,335040142
s_Paraphoma_sp.	0,297111069
s_Paraphoma_chrysanthemicola	0,217038582
s_Neopecticia_coulteri	0,17910951
s_Minimedusa_sp.	0,107465706
s_Metschnikowia_sp.	0,042143414
s_Lipomyces_tetrasporus	0,042143414
s_Metschnikowia_chrysoperlae	0,025286048
s_Oedocephalum_sp.	0,021071707
s_Leptospora_rubella	0,016857366
s_Letendreaa_sp.	0,016857366
s_Globisporangium_carolinianum	0,012643024
s_Setophoma_terrestris	0,008428683
s_Clohesyomyces_sp.	0,008428683
Total general	100

ITALIA
FICO COCOON

Nº Especies totales identificadas	273
Nº Patógenos	132
Nº Saprófitos	93
Nº Saprófitos-simbiontes	10
Nº Simbiontes	23
Nº especies no clasificadas	15

Etiquetas de fila	Suma de AQ7042
Patógenos	65,73812408
Endophyte-Plant Pathogen-Wood Saprotrroph	21,09742968
s_Torula_sp.	20,92585116
s_Periconia_sp.	0,161485668
s_Phomopsis_sp.	0,010092854
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Soil Saprotrroph-Wood Saprotrroph	12,1349751
s_Fusarium_equiseti	10,89355403
s_Fusarium_acuminatum	1,110213969
s_Fusarium_boothii	0,107657112
s_Fusarium_beomiforme	0,013457139
s_Fusarium_pseudensiforme	0,010092854
Plant Pathogen	9,665590097
s_Stagonosporopsis_dorenboschii	2,93029202
s_Truncatella_laurocerasi	1,042928273
s_Thanatephorus_sp.	0,676221235
s_Monographella_cucumerina	0,649306957
s_Macrophomina_phaseolina	0,541649845
s_Lewia_infectoria	0,477728435
s_Leptosphaeria_sp.	0,437357018
s_Ascochyta_manawaorae	0,383528462
s_Drechslera_nobleae	0,356614184
s_Lectera_colletotrichoides	0,356614184
s_Pyrenophora_lolii	0,349885614
s_Septoria_sp.	0,201857085
s_Penicillium_citrinum	0,185035661
s_Clonostachys_rosea	0,13457139
s_Penicillium_glabrum	0,114385682
s_Curvularia_inaequalis	0,097564258
s_Neofusicoccum_algeriense	0,097564258
s_Drechslera_sp.	0,087471404
s_Neonectria_sp.	0,057192841
s_Phaeoacremonium_hungaricum	0,050464271
s_Haematonectria_haematococca	0,050464271
s_Monosporascus_cannonballus	0,050464271
s_Ascochyta_fabae	0,043735702
s_Olpidium_brassicae	0,040371417
s_Stagonospora_sp.	0,037007132

s_Bipolaris_eleusines	0,037007132
s_Macrophoma_sp.	0,033642848
s_Rhizoctonia_fragariae	0,033642848
s_Pythium_rostratum	0,016821424
s_Chalastospora_ellipsoidea	0,016821424
s_Volutella_sp.	0,013457139
s_Devriesia_sp.	0,010092854
s_Curvularia_verruculosa	0,010092854
s_Embellisia_planifunda	0,010092854
s_Discohainesia_oenotherae	0,00672857
s_Bipolaris_microstegii	0,00672857
s_Puccinia_monoica	0,00672857
s_Mycoleptodiscus_sp.	0,003364285
s_Botryotinia_fuckeliana	0,003364285
s_Dactylaria_ampulliformis	0,003364285
s_Pyrenophora_avenae	0,003364285
Endophyte-Plant Pathogen	4,356748756
s_Boeremia_exigua	3,192706231
s_Microdochium_bolleyi	0,962185439
s_Periconia_prolifica	0,154757099
s_Camarosporium_sp.	0,040371417
s_Thermomyces_lanuginosus	0,003364285
s_Microdochium_sp.	0,003364285
Animal Pathogen-Dung Saprotroph-Endophyte-Plant Saprotroph-Soil Saprotroph-Wood Saprotroph	3,495491858
s_Cladorrhinum_phialophoroides	1,836899475
s_Cladorrhinum_sp.	1,658592383
Endophyte-Plant Pathogen-Undefined Saprotroph	3,438299018
s_Pleospora_herbarum	3,438299018
Animal Pathogen-Endophyte-Plant Pathogen-Wood Saprotroph	2,984120576
s_Alternaria_atra	1,766249495
s_Alternaria_soliaridae	1,143856816
s_Alternaria_solani	0,033642848
s_Alternaria_leptinellae	0,030278563
s_Alternaria_alternata	0,010092854
Leaf Saprotroph-Plant Pathogen-Undefined Saprotroph	2,768806352
s_Paraphoma_sp.	2,768806352
Animal Pathogen-Endophyte-Epiphyte-Undefined Saprotroph	1,13712825
s_Cryptococcus_laurentii	0,400349886
s_Cryptococcus_dimennae	0,181671377
s_Cryptococcus_uzbekistanensis	0,121114251
s_Cryptococcus_oeirensis	0,087471404
s_Cryptococcus_saitoi	0,077378549
s_Cryptococcus_terreus	0,074014265
s_Cryptococcus_aerius	0,07064998
s_Cryptococcus_magnus	0,060557126
s_Cryptococcus_chernovii	0,020185709
s_Cryptococcus_sp.	0,013457139

s_Cryptococcus_victoriae	0,010092854
s_Cryptococcus_heimaeyensis	0,00672857
s_Cryptococcus_wieringae	0,00672857
s_Cryptococcus_podzolicus	0,003364285
s_Cryptococcus_phenolicus	0,003364285
Animal Pathogen-Endophyte-Fungal Parasite-Plant Pathogen-Wood Saprotroph	1,009285426
s_Acremonium_pilosum	0,541649845
s_Acremonium_alternatum	0,299421343
s_Acremonium_sp.	0,057192841
s_Acremonium_rutilum	0,040371417
s_Acremonium_alcalophilum	0,040371417
s_Acremonium_persicinum	0,023549993
s_Acremonium_fusidioides	0,00672857
Plant Pathogen-Wood Saprotroph	0,901628314
s_Cladosporium_herbarum	0,787242632
s_Cephalosporium_serrae	0,094199973
s_Coniothyrium_sidae	0,016821424
s_Aspergillus_niger	0,003364285
Animal Pathogen-Endophyte-Epiphyte-Plant Pathogen	0,423899879
s_Aureobasidium_pullulans	0,423899879
Endophyte-Dung Saprotroph-Lichen Parasite-Litter Saprotroph-Plant Pathogen-Soil Saprotroph-Wood Saprotroph	0,417171309
s_Phoma_sp.	0,232135648
s_Phoma_plurivora	0,185035661
Endophyte-Lichen Parasite-Plant Pathogen-Undefined Saprotroph	0,27587135
s_Pleospora_halimiones	0,27587135
Animal Pathogen-Dung Saprotroph-Endophyte-Epiphyte-Plant Saprotroph-Wood Saprotroph	0,259049926
s_Chaetomium_sp.	0,259049926
Animal Pathogen	0,235499935
s_Aspergillus_ochraceus	0,107657112
s_Aspergillus_insuetus	0,087471404
s_Metacordyceps_chlamydosporia	0,013457139
s_Isaria_cateniannulata	0,00672857
s_Metarhizium_flavoviride	0,00672857
s_Lachancea_thermotolerans	0,003364285
s_Aspergillus_ruber	0,003364285
s_Aspergillus_wentii	0,003364285
s_Cladosporium_halotolerans	0,003364285
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Wood Saprotroph	0,195128516
s_Cladosporium_ramotenellum	0,195128516
Endomycorrhizal-Plant Pathogen-Undefined Saprotroph	0,181671377
s_Ceratobasidium_sp.	0,181671377
Animal Pathogen-Undefined Saprotroph	0,164849953
s_Exophiala_opportunistica	0,090835688
s_Exophiala_equina	0,033642848
s_Exophiala_brunnea	0,026914278
s_Arthroderma_gypseum	0,013457139

Animal Pathogen-Endophyte-Plant Saprotroph-Soil Saprotroph-Undefined Saprotroph-Wood Saprotroph	0,107657113
s_Aspergillus_lanosus	0,067285695
s_Aspergillus_amstelodami	0,030278563
s_Aspergillus_sp.	0,00672857
s_Aspergillus_sclerotiorum	0,003364285
Endophyte-Fungal Parasite-Lichen Parasite-Plant Pathogen-Wood Saprotroph	0,074014265
s_Epicoccum_nigrum	0,074014265
Ectomycorrhizal-Fungal Parasite-Soil Saprotroph-Undefined Saprotroph	0,050464271
s_Entoloma_indutoides	0,050464271
Bryophyte Parasite-Litter Saprotroph-Wood Saprotroph	0,047099987
s_Pluteus_multiformis	0,040371417
s_Pluteus_cinereofuscus	0,00672857
Endophyte-Fungal Parasite	0,043735702
s_Hypocrea_atroviridis	0,040371417
s_Hypocrea_virens	0,003364285
Plant Pathogen-Undefined Saprotroph	0,043735702
s_Rhizopus_arrhizus	0,043735702
Animal Pathogen-Plant Pathogen-Undefined Saprotroph	0,037007132
s_Coniosporium_sp.	0,037007132
Animal Pathogen-Plant Pathogen-Wood Saprotroph	0,033642848
s_Aspergillus_flavus	0,033642848
Animal Pathogen-Wood Saprotroph	0,030278563
s_Aspergillus_terreus	0,030278563
Endophyte-Lichen Parasite-Undefined Saprotroph	0,026914279
s_Pyrenochaetopsis_microspora	0,020185709
s_Pyrenochaetopsis_leptospora	0,00672857
Fungal Parasite-Litter Saprotroph-Undefined Saprotroph	0,023549993
s_Occultifur_sp.	0,023549993
Animal Pathogen-Endophyte-Ericoid Mycorrhizal-Plant Pathogen-Wood Saprotroph	0,023549993
s_Phialophora_sp.	0,023549993
Endophyte-Fungal Parasite-Plant Pathogen	0,020185709
s_Verticillium_dahliae	0,020185709
Animal Pathogen-Clavicipitaceous Endophyte-Fungal Parasite	0,016821424
s_Cordyceps_bassiana	0,016821424
Litter Saprotroph-Plant Pathogen	0,010092854
s_Itersonilia_perplexans	0,010092854
Animal Pathogen-Endophyte-Plant Pathogen-Undefined Saprotroph	0,00672857
s_Microascus_sp.	0,00672857
Saprófitos	21,31947249
Undefined Saprotroph	13,50760329
s_Phaeosphaeria_sp.	4,642712959
s_Articulospora_sp.	2,230520791
s_Myrothecium_sp.	1,423092451
s_Hydropisphaera_erubescens	0,676221235
s_Preussia_sp.	0,464271296
s_Tetracladium_sp.	0,464271296

s_Spegazzinia_sp.	0,400349886
s_Neosectophoma_sp.	0,396985601
s_Heteroconium_sp.	0,289328489
s_Absidia_repens	0,222042794
s_Melanophyllum_haematospermum	0,168214238
s_Myrmecridium_sp.	0,168214238
s_Volvopluteus_gloiocephalus	0,164849953
s_Scedosporium_prolificans	0,148028529
s_Absidia_sp.	0,117749966
s_Mucor_bainieri	0,097564258
s_Coprinellus_bisporus	0,094199973
s_Ophioceras_aquaticus	0,094199973
s_Tetracladium_marchalianum	0,087471404
s_Harzia_acremonioides	0,074014265
s_Rodwayella_citrinula	0,060557126
s_Conocybe_dunensis	0,060557126
s_Pseudallescheria_fimeti	0,060557126
s_Cunninghamella_echinulata	0,053828556
s_Oliveonia_pauxilla	0,053828556
s_Lophiostoma_sp.	0,050464271
s_Chaetospermum_chaetosporum	0,043735702
s_Brachyphoris_oviparasitica	0,040371417
s_Pseudeurotium_hygrophilum	0,037007132
s_Coprinellus_sp.	0,033642848
s_Sclerostagonospora_sp.	0,033642848
s_Agaricus_bresadolianus	0,033642848
s_Tubeufia_helicomyces	0,033642848
s_Calycina_claroflava	0,030278563
s_Walleimia_sebi	0,030278563
s_Preussia_flanaganii	0,030278563
s_Fusidium_griseum	0,026914278
s_Scoleobasidium_constrictum	0,026914278
s_Lacrymaria_lacrymabunda	0,023549993
s_Trichocladium_pyriforme	0,023549993
s_Blastobotrys_raffinosisfermentans	0,023549993
s_Mucor_hiemalis	0,020185709
s_Scoleobasidium_sp.	0,020185709
s_Neurospora_terricola	0,020185709
s_Mucor_gigasporus	0,016821424
s_Cladophialophora_sp.	0,016821424
s_Phaeosphaeria_juncicola	0,016821424
s_Sarocladium_strictum	0,016821424
s_Coprinopsis_nivea	0,013457139
s_Ochroconis_tshawytschae	0,013457139
s_Neobulgaria_sp.	0,010092854
s_Lophiostoma_compressum	0,010092854
s_Cladophialophora_chaetospira	0,010092854
s_Rhodospiridium_babjevae	0,010092854

s_Leptodiscella_sp.	0,010092854
s_Mucor_circinelloides	0,010092854
s_Codinaeopsis_sp.	0,010092854
s_Leucoagaricus_irinellus	0,00672857
s_Geminibasidium_sp.	0,00672857
s_Sagenomella_diversispora	0,00672857
s_Hypholoma_subviride	0,003364285
s_Coprinopsis_radiata	0,003364285
s_Lycoperdon_pratense	0,003364285
s_Blastobotrys_proliferans	0,003364285
s_Paraconiothyrium_fuckelii	0,003364285
s_Preussia_terricola	0,003364285
s_Hansfordia_sp.	0,003364285
s_Coprinellus_radians	0,003364285
Dung Saprotroph-Wood Saprotroph	3,078320549
s_Ascobolus_sp.	3,078320549
Undefined Saprotroph-Wood Saprotroph	1,964742297
s_Pyrenochaeta_sp.	1,944556587
s_Rhinoclaadiella_sp.	0,00672857
s_Chrysosporium_lobatum	0,00672857
s_Pyrenochaeta_keratinophila	0,00672857
Dung Saprotroph	1,190956804
s_Cercophora_sp.	0,54501413
s_Zopfiella_sp.	0,34652133
s_Schizothecium_carpinicola	0,178307092
s_Podospora_communis	0,074014265
s_Schizothecium_glutinans	0,033642848
s_Zygopleurage_zygospora	0,013457139
Dung Saprotroph-Undefined Saprotroph-Wood Saprotroph	0,787242632
s_Penicillium_sp.	0,787242632
Wood Saprotroph	0,534921277
s_Stachybotrys_chartarum	0,40371417
s_Psathyrella_candolleana	0,047099987
s_Crepidotus_mollis	0,043735702
s_Trechispora_sp.	0,016821424
s_Stachybotrys_microspora	0,013457139
s_Panellus_stipticus	0,00672857
s_Stachybotrys_sp.	0,003364285
Leaf Saprotroph	0,164849953
s_Cystofilobasidium_macerans	0,164849953
Dung Saprotroph-Undefined Saprotroph	0,053828556
s_Melanospora_tiffanii	0,053828556
Soil Saprotroph-Undefined Saprotroph	0,020185709
s_Leucosporidium_sp.	0,020185709
Litter Saprotroph	0,013457139
s_Mastigobasidium_sp.	0,010092854
s_Mastigobasidium_intermedium	0,003364285
Soil Saprotroph	0,003364285

s_Melanoleuca_sublanipes	0,003364285
Saprófito-simbiotés	2,879827749
Endophyte-Litter Saprotroph-Soil Saprotroph-Undefined Saprotroph	1,678778092
s_Mortierella_sp.	1,550935271
s_Mortierella_oligospora	0,107657112
s_Mortierella_camargensis	0,013457139
s_Mortierella_chlamydospora	0,00672857
Dung Saprotroph-Endophyte-Litter Saprotroph-Undefined Saprotroph	0,393621316
s_Podospora_sp.	0,393621316
Dung Saprotroph-Endophyte-Wood Saprotroph	0,370071323
s_Stilbella_byssiseda	0,370071323
Endophyte-Soil Saprotroph	0,34652133
s_Bartalinia_robillardoides	0,34652133
Endophyte-Orchid Mycorrhizal-Undefined Saprotroph	0,057192841
s_Piriformospora_indica	0,057192841
Clavicipitaceous Endophyte-Undefined Saprotroph-Wood Saprotroph	0,023549993
s_Paecilomyces_penicillatus	0,023549993
Endophyte-Undefined Saprotroph-Wood Saprotroph	0,010092854
s_Xylaria_sp.	0,010092854
Symbiotés	2,466020726
Endophyte	1,601399543
s_Cadophora_luteo-olivacea	1,510563854
s_Capronia_sp.	0,030278563
s_Penicillium_brevicompactum	0,020185709
s_Capronia_semi-immersa	0,013457139
s_Ampelomyces_quisqualis	0,013457139
s_Lecythophora_sp.	0,010092854
s_Trichoderma_asperellum	0,003364285
Arbuscular Mycorrhizal	0,454178441
s_Claroideoglomus_sp.	0,201857085
s_Claroideoglomus_walkeri	0,144664244
s_Claroideoglomus_claroideum	0,050464271
s_Rhizophagus_sp.	0,033642848
s_Claroideoglomus_etunicatum	0,023549993
Ectomycorrhizal	0,393621318
s_Terfezia_sp.	0,306149913
s_Pisolithus_arhizus	0,033642848
s_Efibulobasidium_sp.	0,010092854
s_Suillus_granulatus	0,010092854
s_Pulvinula_sp.	0,010092854
s_Inocybe_whitei	0,00672857
s_Clavulina_castaneipes	0,00672857
s_Suillus_collinitus	0,00672857
s_Cortinarius_sp.	0,003364285
Animal Endosymbiont	0,010092854
s_Smittium_morbosum	0,010092854
Orchid Mycorrhizal	0,00672857
s_Serendipita_sp.	0,00672857

Sin clasificar	7,596554973
-	7,596554973
s_Pseudorobillarda_sp.	4,531691562
s_Setophaeosphaeria_sp.	1,655228099
s_Minimedusa_sp.	0,582021262
s_Chaetosphaeronema_sp.	0,316242767
s_Mycothermus_thermophilus	0,144664244
s_Dactylonectria_alcacerensis	0,074014265
s_Letendreaa_sp.	0,074014265
s_Holtermannia_corniformis	0,07064998
s_Cephaliphora_sp.	0,057192841
s_Kondoa_myxariophila	0,053828556
s_Dactylonectria_estremocensis	0,010092854
s_Setophoma_terrestris	0,010092854
s_Parastagonospora_nodorum	0,010092854
s_Sarcostroma_restionis	0,003364285
s_Lipomyces_tetrasporus	0,003364285
Total general	100

ITALIA
FICO CONTROLLO

Nº Especies totales identificadas	311
Nº Patógenos	154
Nº Saprófitos	102
Nº Saprófitos-simbiontes	13
Nº Simbiontes	21
Nº especies no clasificadas	21

Etiquetas de fila	Suma de
Patógeno	AQ7043
	61,29679538
Endophyte-Plant Pathogen-Wood Saprotrroph	18,70241772
s_Torula_sp.	18,42307163
s_Phomopsis_sp.	0,165246985
s_Periconia_sp.	0,108197431
s_Chalara_sp.	0,005901678
Plant Pathogen	11,55942006
s_Stagonosporopsis_dorenboschii	2,638050086
s_Truncatella_laurocerasi	1,776405091
s_Laetisaria_arvalis	0,930497905
s_Monographella_cucumerina	0,666889619
s_Lectera_colletotrichoides	0,509511538
s_Lewia_infectoria	0,485904826
s_Clonostachys_rosea	0,436724175
s_Penicillium_citrinum	0,395412429
s_Thanatephorus_sp.	0,369838491
s_Macrophomina_phaseolina	0,338362875

s_Leptosphaeria_sp.	0,314756162
s_Ascochyta_manawaorae	0,29114945
s_Ascochyta_fabae	0,243936026
s_Drechslera_nobleae	0,200657053
s_Mycoleptodiscus_sp.	0,200657053
s_Trichothecium_roseum	0,188853697
s_Neofusicoccum_algeriense	0,182952019
s_Phaeoacremonium_hungaricum	0,139673047
s_Haematonectria_haematococca	0,129836917
s_Typhula_japonica	0,123935239
s_Monosporascus_cannonballus	0,118033561
s_Stagonospora_sp.	0,112131883
s_Rhizoctonia_fragariae	0,104262979
s_Penicillium_glabrum	0,092459623
s_Septoria_sp.	0,078689041
s_Drechslera_sp.	0,076721815
s_Olpidium_brassicae	0,066885684
s_Neonectria_sp.	0,055082328
s_Venturia_hystrioides	0,045246198
s_Macrophoma_sp.	0,033442842
s_Pilidiella_quercicola	0,031475616
s_Pyrenophora_lolii	0,027541164
s_Devriesia_sp.	0,025573938
s_Amycosphaerella_africana	0,01967226
s_Bipolaris_iris	0,017705034
s_Pyrenophora_dictyoides	0,015737808
s_Discohainesia_oenotherae	0,015737808
s_Bipolaris_eleusines	0,015737808
s_Chalastospora_obclavata	0,00983613
s_Dactylaria_ampulliformis	0,007868904
s_Curvularia_inaequalis	0,007868904
s_Chalastospora_ellipsoidea	0,005901678
s_Pythium_rostratum	0,003934452
s_Ascochyta_hordei	0,003934452
s_Monographella_nivalis	0,001967226
s_Pyrenophora_avenae	0,001967226
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Soil Saprotroph- Wood Saprotroph	9,663014182
s_Fusarium_equiseti	8,138414022
s_Fusarium_acuminatum	1,272795231
s_Fusarium_boothii	0,139673047
s_Fusarium_delphinoides	0,04918065
s_Fusarium_keratoplasticum	0,045246198
s_Fusarium_beomiforme	0,00983613
s_Fusarium_pseudensiforme	0,007868904
Endophyte-Plant Pathogen-Undefined Saprotroph	4,796097024
s_Pleospora_herbarum	4,796097024
Endophyte-Plant Pathogen	3,59805638

s_Boeremia_exigua	1,701650503
s_Microdochium_bolleyi	1,239352389
s_Periconia_prolifica	0,590167804
s_Thermomyces_lanuginosus	0,062951232
s_Toxicocladosporium_leucadendri	0,001967226
s_Microdochium_sp.	0,001967226
Plant Pathogen-Wood Saprotroph	2,907560049
s_Cladosporium_herbarum	2,417720772
s_Cephalosporium_serrae	0,210493184
s_Coniothyrium_sidae	0,169181437
s_Coniothyrium_carteri	0,057049554
s_Ganoderma_adspersum	0,03934452
s_Teratosphaeria_capensis	0,011803356
s_Phellinus_mori	0,001967226
Animal Pathogen-Endophyte-Plant Pathogen-Wood Saprotroph	2,693132414
s_Alternaria_atra	1,87083194
s_Alternaria_soliaridae	0,678692975
s_Alternaria_solani	0,116066335
s_Alternaria_alternata	0,015737808
s_Alternaria_leptinellae	0,011803356
Leaf Saprotroph-Plant Pathogen-Undefined Saprotroph	2,360671218
s_Paraphoma_sp.	2,360671218
Animal Pathogen-Endophyte-Epiphyte-Undefined Saprotroph	0,969842422
s_Cryptococcus_aerius	0,179017567
s_Cryptococcus_laurentii	0,177050341
s_Cryptococcus_dimennae	0,159345307
s_Cryptococcus_uzbekistanensis	0,131804143
s_Cryptococcus_oeirensis	0,057049554
s_Cryptococcus_sp.	0,055082328
s_Cryptococcus_magnus	0,04918065
s_Cryptococcus_chernovii	0,045246198
s_Cryptococcus_victoriae	0,035410068
s_Cryptococcus_phenolicus	0,025573938
s_Cryptococcus_terreus	0,013770582
s_Cryptococcus_podzolicus	0,011803356
s_Cryptococcus_wieringae	0,00983613
s_Cryptococcus_friedmannii	0,005901678
s_Cryptococcus_saitoi	0,005901678
s_Cryptococcus_heimaeyensis	0,003934452
s_Cryptococcus_randhawii	0,003934452
Animal Pathogen-Dung Saprotroph-Endophyte-Plant Saprotroph-Soil	
Saprotroph-Wood Saprotroph	0,899022288
s_Cladorrhinum_phialophoroides	0,466232565
s_Cladorrhinum_sp.	0,432789723
Animal Pathogen	0,468199791
s_Aspergillus_ochraceus	0,263608286
s_Aspergillus_wentii	0,076721815
s_Aspergillus_insuetus	0,05901678

s_Metarhizium_flavoviride	0,04918065
s_Aspergillus_sydowii	0,005901678
s_Beauveria_pseudobassiana	0,005901678
s_Aspergillus_ruber	0,003934452
s_Cladosporium_halotolerans	0,001967226
s_Isaria_cateniannulata	0,001967226
Animal Pathogen-Endophyte-Epiphyte-Plant Pathogen	0,450494757
s_Aureobasidium_pullulans	0,450494757
Endophyte-Dung Saprotroph-Lichen Parasite-Litter Saprotroph-Plant Pathogen- Soil Saprotroph-Wood Saprotroph	0,326559519
s_Phoma_plurivora	0,206558732
s_Phoma_sp.	0,120000787
Animal Pathogen-Dung Saprotroph-Endophyte-Epiphyte-Plant Saprotroph-Wood Saprotroph	0,306887258
s_Chaetomium_sp.	0,304920032
s_Chaetomium_caprinum	0,001967226
Animal Pathogen-Endophyte-Plant Saprotroph-Soil Saprotroph-Undefined Saprotroph-Wood Saprotroph	0,214427635
s_Aspergillus_lanosus	0,137705821
s_Aspergillus_sclerotiorum	0,031475616
s_Aspergillus_amstelodami	0,025573938
s_Aspergillus_sp.	0,01967226
Animal Pathogen-Endophyte-Fungal Parasite-Plant Pathogen-Wood Saprotroph	0,200657053
s_Acremonium_alternatum	0,084590719
s_Acremonium_alcalophilum	0,027541164
s_Acremonium_rutilum	0,027541164
s_Acremonium_persicinum	0,023606712
s_Acremonium_sp.	0,021639486
s_Acremonium_pilosum	0,015737808
Animal Pathogen-Endophyte-Lichen Parasite-Plant Pathogen-Wood Saprotroph	0,175083115
s_Cladosporium_ramotenellum	0,127869691
s_Cladosporium_velox	0,047213424
Animal Pathogen-Undefined Saprotroph	0,171148663
s_Exophiala_opportunistica	0,102295753
s_Exophiala_brunnea	0,025573938
s_Exophiala_aquamarina	0,021639486
s_Exophiala_equina	0,011803356
s_Exophiala_angulospora	0,00983613
Bryophyte Parasite-Litter Saprotroph-Wood Saprotroph	0,159345307
s_Pluteus_multiformis	0,092459623
s_Pluteus_cinereofuscus	0,066885684
Lichen Parasite	0,127869691
s_Phoma_puncteliae	0,127869691
Endophyte-Fungal Parasite-Lichen Parasite-Plant Pathogen-Wood Saprotroph	0,080656267
s_Epicoccum_nigrum	0,080656267
Animal Pathogen-Plant Pathogen-Undefined Saprotroph	0,070820136
s_Didymella_urticicola	0,037377294
s_Coniosporium_sp.	0,027541164
s_Didymella_maydis	0,005901678

Animal Pathogen-Endosymbiont-Undefined Saprotroph	0,060984006
s_Candida_sp.	0,060984006
Plant Pathogen-Undefined Saprotroph	0,055082328
s_Rhizopus_arrhizus	0,055082328
Endophyte-Fungal Parasite	0,055082328
s_Hyphocrea_atroviridis	0,055082328
Endophyte-Lichen Parasite-Plant Pathogen-Undefined Saprotroph	0,055082328
s_Pleospora_halimiones	0,055082328
Animal Pathogen-Plant Pathogen-Wood Saprotroph	0,041311746
s_Aspergillus_flavus	0,041311746
Animal Pathogen-Endophyte-Ericoid Mycorrhizal-Plant Pathogen-Wood Saprotroph	0,02950839
s_Phialophora_sp.	0,02950839
Endophyte-Fungal Parasite-Plant Pathogen	0,015737808
s_Verticillium_dahliae	0,015737808
Ectomycorrhizal-Fungal Parasite-Soil Saprotroph-Undefined Saprotroph	0,015737808
s_Entoloma_indutoides	0,015737808
Fungal Parasite-Litter Saprotroph	0,011803356
s_Sporobolomyces_coprosmae	0,00983613
s_Sporobolomyces_gracilis	0,001967226
Fungal Parasite	0,011803356
s_Cystobasidium_sloffiae	0,00983613
s_Purpureocillium_lavendulum	0,001967226
Animal Pathogen-Wood Saprotroph	0,011803356
s_Aspergillus_terreus	0,011803356
Endomycorrhizal-Plant Pathogen-Undefined Saprotroph	0,011803356
s_Ceratobasidium_sp.	0,011803356
Animal Endosymbiont-Animal Pathogen-Endophyte-Plant Pathogen-Undefined Saprotroph	0,005901678
s_Rhodotorula_sp.	0,003934452
s_Rhodotorula_ingeniosa	0,001967226
Animal Pathogen-Clavicipitaceous Endophyte-Fungal Parasite	0,003934452
s_Cordyceps_bassiana	0,003934452
Fungal Parasite-Litter Saprotroph-Undefined Saprotroph	0,003934452
s_Occultifur_sp.	0,003934452
Endophyte-Lichen Parasite-Undefined Saprotroph	0,003934452
s_Pyrenochaetopsis_leptospora	0,003934452
Endophyte-Epiphyt-Fungal Parasite-Plant Pathogen-Wood Saprotroph	0,001967226
s_Trichoderma_spirale	0,001967226
Saprófito	28,96543583
Undefined Saprotroph	15,28534613
s_Phaeosphaeria_sp.	3,454448882
s_Myrothecium_sp.	1,833454646
s_Articulospora_sp.	1,630830366
s_Coprinellus_bisporus	1,355418724
s_Hydropisphaera_erubescens	1,323943108
s_Absidia_repens	0,731808077
s_Myrmecridium_sp.	0,501642634

s_Spegazzinia_sp.	0,485904826
s_Phaeosphaeria_juncicola	0,409183011
s_Tetracladium_sp.	0,342297327
s_Absidia_sp.	0,336395648
s_Scedosporium_prolificans	0,289182224
s_Preussia_sp.	0,279346094
s_Mucor_bainieri	0,200657053
s_Oliveonia_pauxilla	0,167214211
s_Neosetophoma_sp.	0,159345307
s_Preussia_terricola	0,125902465
s_Volvopluteus_gloiocephalus	0,121968013
s_Agaricus_bresadolianus	0,100328527
s_Tetracladium_marchalianum	0,092459623
s_Walleimia_sebi	0,084590719
s_Conocybe_dunensis	0,078689041
s_Mucor_circinelloides	0,076721815
s_Pseudallescheria_fimeti	0,070820137
s_Rodwayella_citrinula	0,062951232
s_Sarocladium_strictum	0,05901678
s_Brachyphoris_oviparasitica	0,05901678
s_Scolecobasidium_sp.	0,057049554
s_Arthrobotrys_oudemansii	0,055082328
s_Scolecobasidium_constrictum	0,053115102
s_Heteroconium_sp.	0,04918065
s_Trichocladium_pyriforme	0,041311746
s_Lophiostoma_sp.	0,041311746
s_Coprinellus_micaceus	0,03934452
s_Fimetariella_rabenhorstii	0,03934452
s_Ochroconis_tshawytschae	0,03934452
s_Coprinopsis_radiata	0,037377294
s_Calycina_claroflava	0,035410068
s_Coprinopsis_kubickae	0,035410068
s_Agaricus_bisporus	0,033442842
s_Cladophialophora_chaetospira	0,02950839
s_Pseudeurotium_hygrophilum	0,01967226
s_Paraconiothyrium_fuckelii	0,017705034
s_Preussia_flanaganii	0,017705034
s_Capnobotryella_sp.	0,017705034
s_Cunninghamella_echinulata	0,015737808
s_Cunninghamella_blakesleeana	0,015737808
s_Mycoarachis_inversa	0,013770582
s_Sclerostagonospora_sp.	0,013770582
s_Harzia_acremonioides	0,011803356
s_Flammulaster_muricatus	0,00983613
s_Biscogniauxia_mediterranea	0,00983613
s_Chaetospermum_chaetosporum	0,00983613
s_Nematoctonus_leiosporus	0,00983613
s_Tritirachium_dependens	0,00983613

s_Fusidium_griseum	0,00983613
s_Guehomyces_pullulans	0,00983613
s_Cladophialophora_sp.	0,007868904
s_Lacrymaria_lacrymabunda	0,005901678
s_Coprinopsis_clastophylla	0,003934452
s_Mucor_hiemalis	0,003934452
s_Agaricus_bitorquis	0,003934452
s_Ascorhizoctonia_sp.	0,003934452
s_Scutellinia_torrentis	0,003934452
s_Lophiostoma_compressum	0,003934452
s_Neobulgaria_sp.	0,001967226
s_Scedosporium_dehoogii	0,001967226
s_Tubeufia_helicomyces	0,001967226
s_Lycoperdon_pratense	0,001967226
s_Mariannaea_camptospora	0,001967226
s_Sagenomella_diversispora	0,001967226
s_Mariannaea_superimposita	0,001967226
s_Monocillium_indicum	0,001967226
Dung Saprotroph	6,893159954
s_Cercophora_sp.	4,119371275
s_Podospora_communis	2,077390671
s_Zopfiella_sp.	0,336395648
s_Schizothecium_carpinicola	0,253772156
s_Schizothecium_glutinans	0,053115102
s_Zygopleurage_zygospora	0,031475616
s_Zopfiella_marina	0,021639486
Undefined Saprotroph-Wood Saprotroph	2,856412173
s_Pyrenochaeta_sp.	2,848543269
s_Chrysosporium_lobatum	0,005901678
s_Chrysosporium_sp.	0,001967226
Dung Saprotroph-Wood Saprotroph	1,449845573
s_Ascobolus_sp.	1,449845573
Dung Saprotroph-Undefined Saprotroph-Wood Saprotroph	1,251155745
s_Penicillium_sp.	1,251155745
Wood Saprotroph	0,849841637
s_Stachybotrys_chartarum	0,529183798
s_Trechispora_sp.	0,088525171
s_Psathyrella_candolleana	0,062951232
s_Psathyrella_panaeoloides	0,047213424
s_Stachybotrys_elegans	0,041311746
s_Psathyrella_sp.	0,035410068
s_Psathyrella_piluliformis	0,027541164
s_Stachybotrys_echinata	0,013770582
s_Scytalidium_sp.	0,003934452
Leaf Saprotroph	0,299018354
s_Cystofilobasidium_macerans	0,299018354
Soil Saprotroph	0,051147876
s_Melanoleuca_sublanipes	0,021639486

s_Tulostoma_brumale	0,017705034
s_Archaeorhizomyces_sp.	0,011803356
Dung Saprotroph-Undefined Saprotroph	0,017705034
s_Melanospora_tiffanii	0,017705034
Litter Saprotroph	0,007868904
s_Mastigobasidium_sp.	0,007868904
Litter Saprotroph-Soil Saprotroph-Wood Saprotroph	0,001967226
s_Phallus_impudicus	0,001967226
Soil Saprotroph-Undefined Saprotroph	0,001967226
s_Leucosporidium_sp.	0,001967226
Saprófito-Simbionte	2,954773473
Endophyte-Litter Saprotroph-Soil Saprotroph-Undefined Saprotroph	1,335746464
s_Mortierella_sp.	1,235417937
s_Mortierella_oligospora	0,072787363
s_Mortierella_camargensis	0,021639486
s_Mortierella_elongata	0,003934452
s_Mortierella_chlamyospora	0,001967226
Dung Saprotroph-Endophyte-Litter Saprotroph-Undefined Saprotroph	1,160663349
s_Podospora_sp.	1,160663349
Endophyte-Soil Saprotroph	0,192788149
s_Bartalinia_robillardoides	0,192788149
Dung Saprotroph-Endophyte-Wood Saprotroph	0,190820923
s_Stilbella_byssiseda	0,190820923
Endophyte-Orchid Mycorrhizal-Undefined Saprotroph	0,035410068
s_Piriformospora_indica	0,035410068
Clavicipitaceous Endophyte-Undefined Saprotroph-Wood Saprotroph	0,033442842
s_Paecilomyces_penicillatus	0,033442842
Endophyte-Litter Saprotroph-Wood Saprotroph	0,001967226
s_Chaetosphaeria_sp.	0,001967226
Ectomycorrhizal-Endophyte-Ericoid Mycorrhizal-Litter Saprotroph-Orchid	
Mycorrhizal	0,001967226
s_Meliniomyces_sp.	0,001967226
Ectomycorrhizal-Wood Saprotroph	0,001967226
s_Sistotrema_sp.	0,001967226
Simbionte	1,760667282
Endophyte	1,229516259
s_Cadophora_luteo-olivacea	1,062302048
s_Penicillium_brevicompactum	0,078689041
s_Ampelomyces_quisqualis	0,051147876
s_Lecythophora_sp.	0,017705034
s_Capronia_semi-immersa	0,00983613
s_Capronia_sp.	0,007868904
s_Trichoderma_asperellum	0,001967226
Ectomycorrhizal	0,265575511
s_Terfezia_sp.	0,184919245
s_Inocybe_asterospora	0,037377294
s_Cortinarius_sp.	0,01967226
s_Tomentella_sp.	0,007868904

s_Pulvinula_sp.	0,007868904
s_Pisolithus_arhizus	0,007868904
Arbuscular Mycorrhizal	0,253772156
s_Claroideoglosum_walkeri	0,129836917
s_Claroideoglosum_sp.	0,096394075
s_Claroideoglosum_claroideum	0,013770582
s_Rhizophagus_sp.	0,007868904
s_Claroideoglosum_etunicatum	0,005901678
Orchid Mycorrhizal	0,005901678
s_Serendipita_sp.	0,005901678
Ectomycorrhizal-Orchid Mycorrhizal-Root Associated Biotroph	0,003934452
s_Sebacina_sp.	0,003934452
Animal Endosymbiont	0,001967226
s_Smittium_morbosum	0,001967226
Sin clasificar	5,022328014
-	5,022328014
s_Setophaeosphaeria_sp.	2,941002892
s_Minimedusa_sp.	0,710168591
s_Pseudorobillarda_sp.	0,574429996
s_Chaetosphaeronema_sp.	0,306887258
s_Letendreaa_sp.	0,125902465
s_Dactylonectria_alcacerensis	0,098361301
s_Oedocephalum_sp.	0,076721815
s_Holtermannia_corniformis	0,045246198
s_Cephaliophora_sp.	0,037377294
s_Sarcostroma_restionis	0,02950839
s_Dactylonectria_estremocensis	0,015737808
s_Kondoa_myxariophila	0,013770582
s_Ramophialophora_sp.	0,011803356
s_Rachicladosporium_luculiae	0,007868904
s_Setophoma_terrestris	0,005901678
s_Mycothermus_thermophilus	0,005901678
s_Lipomyces_tetrasporus	0,005901678
s_Clarireedia_bennettii	0,003934452
s_Clohesyomyces_sp.	0,001967226
s_Leptospora_rubella	0,001967226
s_Lipomyces_chichibuensis	0,001967226
Total general	99,99999998