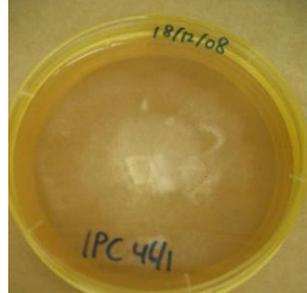


Table S1. Grouping of the most common cultures according to macroscopic morphological characters (Stalpers, 1978). Growth rates were estimated by measuring colony diameter at 1 month old: a diameter < 2 cm was considered as slow growth, 2-4 cm was considered as medium growth, and fast growth was demonstrated by a colony diameter > 4 cm . The criteria for OTU identifications are provided in Table 2 and Figures 1 – 7.

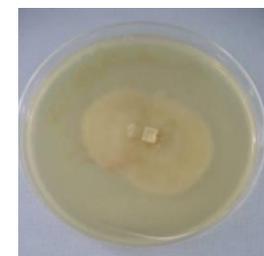
Group	Gross morphology	No. of sequenced isolates	OTU identification	
1	Orange mycelium, zonate texture, irregular margin and slow to medium growth rate.	77	<i>Coniochaeta</i> spp (2 MOTUs)	
2	White mycelium, felt texture, circular and medium growth rate.	9	<i>Fimetariella rabenhorstii</i>	
3	White mycelium, silky texture, circular and fast growth rate.	43	<i>Lophodermium pinastri</i>	

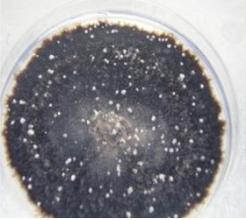
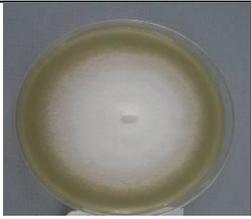
Group	Gross morphology	No. of sequenced isolates	OTU identification	
4	White or yellowish mycelium, irregular margin, white or black crustose and slow growth rate	35	<i>L. pinastri</i>	
5	White mycelium, finely floccose texture, slightly irregular margin and fast growing.	12	<i>L. aff. conigenum</i>	
6	White mycelium, brown reverse, thick woolly texture, irregular margin, medium growth rate.	9	<i>L. aff. conigenum</i>	
7	White mycelium, silky texture, circular with radial streaks of more cottony mycelium and fast growth rate.	31	<i>Xylaria castorea</i> Xylariaceae sp. 1 Xylariaceae sp. 2 Xylariaceae sp. 3 Xylariaceae sp. 4 (5 MOTUs)	

Group	Gross morphology	No. of sequenced isolates	OTU identification	
8	White mycelium brown reverse, thick silky texture, farinaceous patches, circular and medium to fast growth rate	17	<i>Anthostomella pinea</i> <i>Nemania diffusa</i> <i>Rosellinia</i> sp. 1 (3 MOTUs)	
9	White or pinkish mycelium, thick silky texture with pink tinge, crustose central patches, irregular margin and medium growth rate.	3	<i>C. minus</i> 'verum'	
10	White mycelium with brown reverse, velvety texture, some with white crustose central patches, irregular margins and slow to medium growth rate.	2	<i>C. minus</i> 'simile'	
11	White mycelium with brown reverse, felty surface, irregular margins and medium growth rate	2	<i>Mollisia</i> sp. 1	

Group	Gross morphology	No. of sequenced isolates	OTU identification	
12	White mycelium, woolly floccose texture, irregular margins and medium growth rate.	2	Pleosporales sp. 2	
13	Light brown mycelium with brown reverse, circular or regular margin, felt texture and fast growth rate	5	Pleosporales sp. 2	
14	White orange or yellowish mycelium, silky or felty texture, irregular margin, medium growth rate.	4	<i>Sporormiella</i> sp. 2 <i>Sporormiella</i> sp. 5 (2 MOTUs)	

Group	Gross morphology	No. of sequenced isolates	OTU identification
15	White mycelium to blackish mycelium, thick, felty surface, irregular margin and medium growth rate.	3	<i>Sydowia polyspora</i>
16	White to light brown mycelium, brown reverse, irregular margin and medium growth rate.	6	Helotiales sp. 1 Helotiales sp. 2 (2 MOTUs)
17	White greyish mycelium, black reverse, silky texture, circular with radial streak, farinaceous black central patches, medium to fast growth rate	3	<i>Biscogniauxia</i> sp. 1



Group	Gross morphology	No. of sequenced isolates	OTU identification	
18	White greyish mycelium, felt, zonate texture, irregular margin and slow growth rate	2	<i>Lasiosphaeria</i> sp. 1	
19	Black mycelium, granular, with white pycnidia, slightly irregular margin and fast growth rate	2	<i>Strasseria geniculata</i>	
20	White mycelium, thick silky texture, floccose patches, irregular margin, medium to fast growth rate	2	<i>Chromelosporium carneum</i>	
21	White mycelium, lacunose texture, circular and fast growing.	3	<i>Penicillium</i> sp. 5	

Group	Gross morphology	No. of sequenced isolates	OTU identification	
22	White to black mycelium, felty texture, irregular margin, medium growth	2	<i>Aureobasidium pullulans</i>	
23	White mycelium, thick cottony texture, radial patches irregular margin, medium to fast growth	3	Pezizales sp. 1 Pezizales sp. 2 (2 OTUs)	
24	Transparent or black mycelium, felty, zonate texture, irregular margin and medium growth rate.	1	<i>Ceuthospora pinastri</i>	
25	White-greyish mycelium with brown reverse, felty texture, irregular margin and medium growth rate.	1	Basidiomycete sp. 5	

