

Table S1. Cultivables isolates with source and Genbank accession number.

Name Cultivable isolates	Bird feathers isolation- source	Island	Year	Possible taxon	Genbank Accession number
1AP_8	<i>Pygoscelys antarctica</i>	Barrientos	2013	<i>Debaryomyces hansenii</i>	SUB8153223
1AP1_53	<i>Pygoscelys antarctica</i>	Barrientos	2013	<i>Debaryomyces hansenii</i>	SUB8153257
1LB_40	<i>Pygoscelys antarctica</i>	Barrientos	2013	<i>Debaryomyces sp</i>	SUB8153348
1PDB_5	<i>Pygoscelys antarctica</i>	Barrientos	2013	<i>Debaryomyces hansenii</i>	SUB8153391
1PDB_7	<i>Pygoscelys antarctica</i>	Barrientos	2013	<i>Debaryomyces hansenii</i>	SUB8153393
1PDB_13	<i>Pygoscelys antarctica</i>	Barrientos	2013	<i>Debaryomyces hansenii</i>	SUB8153425
1RPDB2_28	<i>Pygoscelys antarctica</i>	Barrientos	2013	<i>Penicillium adametzioides</i>	SUB8153433
1RPDB5_57	<i>Pygoscelys antarctica</i>	Barrientos	2013	<i>Penicillium adametzioides</i>	SUB8153437
1RPDB1_34	<i>Pygoscelys antarctica</i>	Barrientos	2013	<i>Leiotrametes flavida</i>	SUB8153441
1RPDB3_62	<i>Pygoscelys antarctica</i>	Barrientos	2013	<i>Penicillium adametzioides</i>	SUB8153442
1RPDB3_77	<i>Pygoscelys antarctica</i>	Barrientos	2013	<i>Penicillium adametzioides</i>	SUB8164709
1RPDB4_63	<i>Pygoscelys antarctica</i>	Barrientos	2013	<i>Penicillium bialowiezense</i>	SUB8164762
1RPDB5_71	<i>Pygoscelys antarctica</i>	Barrientos	2013	<i>Penicillium adametzioides</i>	SUB8164769
2AP_54	<i>Pygoscelys papua</i>	Barrientos	2013	<i>Meyerozyma guilliermondii</i>	SUB8164945
2AP1_69	<i>Pygoscelys papua</i>	Barrientos	2013	<i>Meyerozyma guilliermondii</i>	SUB8164959
2LB1_49	<i>Pygoscelys papua</i>	Barrientos	2013	<i>Debaryomyces hansenii</i>	SUB8165071
2LB1_50	<i>Pygoscelys papua</i>	Barrientos	2013	<i>Debaryomyces hansenii</i>	SUB8165077
2LB2_62	<i>Pygoscelys papua</i>	Barrientos	2013	<i>Debaryomyces hansenii</i>	SUB8165150

2LB3_31	<i>Pygoscelys papua</i>	Barrientos	2013	<i>Penicillium brevicompactum</i>	SUB8165162
2LB3_56	<i>Pygoscelys papua</i>	Barrientos	2013	<i>Debaryomyces hansenii</i>	SUB8165206
2LB3_74	<i>Pygoscelys papua</i>	Barrientos	2013	<i>Penicillium brevicompactum</i>	SUB8165208
2LB3_76	<i>Pygoscelys papua</i>	Barrientos	2013	<i>Penicillium brevicompactum</i>	SUB8165213
2LB4_7	<i>Pygoscelys papua</i>	Barrientos	2013	<i>Pseudogymnoascus pannorum</i>	SUB8165228
2LB4_51	<i>Pygoscelys papua</i>	Barrientos	2013	<i>Debaryomyces hansenii</i>	SUB8165475
2PDB_9	<i>Pygoscelys papua</i>	Barrientos	2013	<i>Debaryomyces hansenii</i>	SUB8165477
2PDB1_66	<i>Pygoscelys papua</i>	Barrientos	2013	<i>Debaryomyces hansenii</i>	SUB8165490
2RLB_21	<i>Pygoscelys papua</i>	Barrientos	2013	<i>Debaryomyces hansenii</i>	SUB8165492
2RLB_59	<i>Pygoscelys papua</i>	Barrientos	2013	<i>Debaryomyces hansenii</i>	SUB8165532
3LB1_24	<i>Catharacta lonnbergi</i>	Greenwich	2013	<i>Debaryomyces sp</i>	SUB8165534
3PDB_25	<i>Catharacta lonnbergi</i>	Greenwich	2013	<i>Penicillium brevicompactum</i>	SUB8165553
3PDB_58	<i>Catharacta lonnbergi</i>	Greenwich	2013	<i>Debaryomyces hansenii</i>	SUB8165579
3PDB2_41	<i>Catharacta lonnbergi</i>	Greenwich	2013	<i>Debaryomyces hansenii</i>	SUB8165581
4AP_27	<i>Catharacta lonnbergi</i>	Barrientos	2013	<i>Penicillium sp</i>	SUB8165647
4AP_64	<i>Catharacta lonnbergi</i>	Barrientos	2013	<i>Penicillium sp</i>	SUB8165663
4AP_68	<i>Catharacta lonnbergi</i>	Barrientos	2013	<i>Penicillium sp</i>	SUB8165719
4AP_75	<i>Catharacta lonnbergi</i>	Barrientos	2013	<i>Penicillium sp</i>	SUB8165744
4AP2_22	<i>Catharacta lonnbergi</i>	Barrientos	2013	<i>Debaryomyces hansenii</i>	SUB8165757
4AP2_66	<i>Catharacta lonnbergi</i>	Barrientos	2013	<i>Debaryomyces hansenii</i>	SUB8181778
4AP3_25	<i>Catharacta lonnbergi</i>	Barrientos	2013	<i>Debaryomyces sp</i>	SUB8165761
4AP3_37	<i>Catharacta lonnbergi</i>	Barrientos	2013	<i>Debaryomyces hansenii</i>	SUB8165765

4LB_27	<i>Catharacta lonnbergi</i>	Barrientos	2013	<i>Pseudogymnoascus pannorum</i>	SUB8165768
4LB_45	<i>Catharacta lonnbergi</i>	Barrientos	2013	<i>Pseudogymnoascus pannorum</i>	SUB8181780
5PDB_32	<i>Catharacta lonnbergi</i>	Dee	2014	<i>Debaryomyces hansenii</i>	SUB8165770
5PDB5_4	<i>Catharacta lonnbergi</i>	Dee	2014	<i>Debaryomyces hansenii</i>	SUB8165775
5PDB5_11	<i>Catharacta lonnbergi</i>	Dee	2014	<i>Debaryomyces hansenii</i>	SUB8181785
5RAP_55	<i>Catharacta lonnbergi</i>	Dee	2014	<i>Penicillium sp</i>	SUB8181787
5RAP_69	<i>Catharacta lonnbergi</i>	Dee	2014	<i>Onygenales sp.</i>	SUB8181790
5RAP1_33	<i>Catharacta lonnbergi</i>	Dee	2014	<i>Papiliotrema sp</i>	SUB8181799
5RLB_38	<i>Catharacta lonnbergi</i>	Dee	2014	<i>Cladosporium sp.</i>	SUB8181800
5RPDB1_61	<i>Catharacta lonnbergi</i>	Dee	2014	<i>Penicillium brevicompactum</i>	SUB8183236
6PDB_10	<i>Catharacta lonnbergi</i>	Greenwich	2014	<i>Debaryomyces hansenii</i>	SUB8183241
6PDB_11	<i>Catharacta lonnbergi</i>	Greenwich	2014	<i>Debaryomyces hansenii</i>	SUB8183242
6PDB_16	<i>Catharacta lonnbergi</i>	Greenwich	2014	<i>Debaryomyces hansenii</i>	SUB8183247
6PDB_17	<i>Catharacta lonnbergi</i>	Greenwich	2014	<i>Debaryomyces hansenii</i>	SUB8183248
6PDB_38	<i>Catharacta lonnbergi</i>	Greenwich	2014	<i>Papiliotrema sp</i>	SUB8183249
6PDB1_67	<i>Catharacta lonnbergi</i>	Greenwich	2014	<i>Debaryomyces hansenii</i>	SUB8183265
6PDB2_6	<i>Catharacta lonnbergi</i>	Greenwich	2014	<i>Papiliotrema sp</i>	SUB8183274
6PDB2_14	<i>Catharacta lonnbergi</i>	Greenwich	2014	<i>Papiliotrema sp</i>	SUB8183293
6PDB2_15	<i>Catharacta lonnbergi</i>	Greenwich	2014	<i>Papiliotrema sp</i>	SUB8183294
6PDB2_31	<i>Catharacta lonnbergi</i>	Greenwich	2014	<i>Penicillium adametzioides</i>	SUB8183301
6PDB5_50	<i>Catharacta lonnbergi</i>	Greenwich	2014	<i>Debaryomyces hansenii</i>	SUB8183303
6RAP1_36	<i>Catharacta lonnbergi</i>	Greenwich	2014	<i>Penicillium adametzioides</i>	SUB8183306

7PDB_52	<i>Pygoscelys antarctica</i>	Barrientos	2014	<i>Debaryomyces hansenii</i>	SUB8183382
7RAP1_75	<i>Pygoscelys antarctica</i>	Barrientos	2014	<i>Pseudogymnoascus sp</i>	SUB8183440
8AP1_20	<i>Pygoscelys papua</i>	Barrientos	2014	<i>Debaryomyces hansenii</i>	SUB8183442
8AP1_21	<i>Pygoscelys papua</i>	Barrientos	2014	<i>Debaryomyces hansenii</i>	SUB8183452
8AP2_70	<i>Pygoscelys papua</i>	Barrientos	2014	<i>Debaryomyces hansenii</i>	SUB8183472
8AP3_27	<i>Pygoscelys papua</i>	Barrientos	2014	<i>Pseudogymnoascus pannorum</i>	SUB8183475
8AP3_29	<i>Pygoscelys papua</i>	Barrientos	2014	<i>Pseudogymnoascus sp</i>	SUB8183477
8LB_19	<i>Pygoscelys papua</i>	Barrientos	2014	<i>Debaryomyces hansenii</i>	SUB8183504
8RPDB_64	<i>Pygoscelys papua</i>	Barrientos	2014	<i>Penicillium adametzioides</i>	SUB8183508
8RAP1_35	<i>Pygoscelys papua</i>	Barrientos	2014	<i>Debaryomyces hansenii</i>	SUB8183509
8RLB1_42	<i>Pygoscelys papua</i>	Barrientos	2014	<i>Debaryomyces hansenii</i>	SUB8183510
8RLB2_34	<i>Pygoscelys papua</i>	Barrientos	2014	<i>Debaryomyces sp</i>	SUB8183511
8RPDB6_60	<i>Pygoscelys papua</i>	Barrientos	2014	<i>Penicillium adametzioides</i>	SUB8183539
8RPDB7_35	<i>Pygoscelys papua</i>	Barrientos	2014	<i>Pseudogymnoascus sp</i>	SUB8183540
8RPDB7_67	<i>Pygoscelys papua</i>	Barrientos	2014	<i>Penicillium adametzioides</i>	SUB8183545