Supplementary material Table 1**.** Percentage of successful within- and cross-species amplifications in *Bactrospora dryina*

|  |  |  |
| --- | --- | --- |
| Species | *n* | Microsatellite loci |
| bd12 | bd16 | bd17 | bd21 | bd28 | bd35 | bd36 | bd37 | bd39 | bd40 | bd42 | bd45 | bd46 | bd48 | bd49 | bd51 |
| Within-species test |
| *B. dryina*1, fb,Belarus  | 3 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| *B. dryina*1, fb,Ukraine  | 3 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| *B. dryina*1, fb,Iran | 3 | 100 | 100 | 67 | 100 | 100 | 67 | 100 | 33 | 100 | 0 | 100 | 100 | 100 | 67 | 100 | 100 |
| Cross-species test (originated from Switzerland, except where specially mentioned) |
| *Arthonia byssacea*1,fb and st  | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Arthonia cinnabarina*1, fb and st | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Anisomeridium polypori*1, fb and st | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Bacidia polychroa*1, fb | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Bactrospora patellarioides*1, fb, Spain & Cyprus | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Chaenotheca trichialis\**,2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Felipes leucopellaeus*1*,* fb and st  | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Graphis scripta*1*,* fb and st | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Lecanactis abietina*1*,* fb and st | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Opegrapha vermicellifera*1, fb and st | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pooled algal symbionts (*Trentepohlia annulata*, T. spp. and *Printzina* spp.)\*,2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Quercus robur*1*,* bark | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Reichlingia leopoldii*1, fb and st | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Strigula* sp.1, fb and st | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

 fb – fruiting body; st – sterile thallus; \*culture (pooled, from bark of three oak trees with *B. dryina* thallus from Romanshornewald forest (Spitz), 47° 33ʹ40ʹʹN 09°20ʹ35ʹʹE, 457 m a.s.l. Leg. CS & ON, 25.11.2013); 1 DNA extraction: PowerPlant® Pro-htp 96 Well DNA Isolation Kit (MoBio Laboratories, Carlsbad, California, USA); 2 DNA extraction: PowerPlant DNA Isolation Kit (MoBio Laboratories, Carlsbad, California, USA). All species names follow Index Fungorum (http://www.indexfungorum.org/names/Names.asp).

***B. dryina* Belarus:** Brest Region, Kamyenyets district, Belovezhskaia Puscha National Park, 52°38'53"N 23°55'40"E, leg. O. Nadyeina & A. Yatsina, 27.06.2013. ***B. dryina* Ukraine:** Kyiv Region, vicinity of Kyiv, Lisnyky Nature Reserve, 50°17'33.9"N, 30°33'18.7"E, leg. L. Dymytrova & S. Kondratyuk, 07.10.2010 (*KW-L* 67598, 6-017/Uk-035); Ivano-Frankivsk Region, Kosiv district, Hutzulschyna National Park, 48°21'8.53''N 25°7'48.4''E, 06.2008, leg. S. Kondratyuk (KW-L67597, 6-016/Uk-034); Zakarpattia Region, Beregove district, 4 km SW of Nyzhni Remety village, woodland “Otok”, 48°13'5.7''N 22°47'3.9''E, leg. J. Vondrak (6-018/Uk-036), 21.05.2011. ***B. dryina* Iran:** Mazandaran, Shahrak e Tamishan, 36°33'3.6''N 52°1'40.8''E, leg. M. Iravani & C. Scheidegger, 10.11.2011. ***B. patellarioides* Spain:** Ibiza: San Josep de Sa Talaia, P.N. de Es Vedrá, Es Vedranell y esl Illots de Ponent, Isla de Sa Conillera, camino hacia la punta de Es Cavall y el faro de Sa Conillera, 38°59'40"N 01°12'46"W, leg. V. Rico (4260), 26.09.11 (MAF-Lich 18703, 6-022/Sp-des); Ibiza: San Josep de Sa Talaia, P.N. de Es Vedrá, Es Vedranell y esl Illots de Ponent, ladera S en S' Olleta, 38°52'08"N 01°12'42"W, leg. V. Rico (4187/1), 31.07.11 (MAF-Lich 18585, 6-023/Sp-des); ***B. patellarioides* Cyprus:** Pafos region, Akamas Peninsula National Park, close to Aphrodita Baths, 35°03'34"N 32°20'26"E, leg. C.G. Boluda, 04.11.13 (MAF-Lich 19478, 024/Cy-des