Supplementary material Table S2. *Voucher information and GenBank Accession numbers for all specimens used in the phylogenetic study of* Bacidia.

|  |  |  |  |
| --- | --- | --- | --- |
| Specimen | Locality | Specimen voucher | GenBank Accession no. ITS |
| *Arthrosporum populorum* | Norway  | *Haugan* 4430 (O)  | AF282106 |
| *Bacidia absistens* | Norway | *Ekman* 3223 (BG) | AF282085 |
| *B. arceutina* | Sweden | *Ekman* 3110 (BG) | AF282083 |
| *B. arceutina* | Switzerland | LG DNA 579 | JQ796851 |
| *B. areolata* | Russia, Far East | *Gerasimova* M-0182592 (M) | MH048614 |
| *B. auerswaldii* | Sweden | *P. Johansson* 20 (UPS) | AF282122 |
| *B. bagliettoana* | Sweden  | *Ekman* 3137 (BG)  | AF282123 |
| *B. biatorina* | Sweden | *Knutsson* 94-148 (hb. Knutsson) | AF282079 |
| *B. circumspecta* | Russia, Far East | *Gerasimova* L-13006 (LE) | MH539764 |
| *B. circumspecta* | Sweden | *Ekman* L1330 (LD)  | AF282124 |
| *B. diffracta* | USA | *Wetmore* 26401 (MIN) | AF282090 |
| *B. diffracta* | USA, Minnesota | *Wetmore* 46555-A (M) | MH048620 |
| *B. elongata* | Russia, Far East | *Gerasimova* M-0182571 (M) | MH048626 |
| *B. elongata* | Russia, Far East | *Gerasimova* M-0182625 (M) | MH048627 |
| *B. elongata* | Russia, Far East | *Gerasimova* M-0182626 (M) | MH048628 |
| *B. elongata* | Russia, Far East | *Gerasimova* M-0182627 (M) | MH048629 |
| *B. fraxinea* | Sweden | *T. Johansson* 1620 (BG) | AF282088 |
| *B. friesiana*  | Russia, Far East  | *Gerasimova* L-13159 (LE) | MH539765 |
| *B. fuscoviridis* | Sweden | *Nordin* 5058 (UPS)  | AM292665 |
| *B. hostheleoides* | British Indian Ocean Territory, Chagos Archipelago | *Seaward* (hb. Seaward 108121) | AF282081 |
| *B. incompta* | Sweden | *Ekman* 3144 (BG) | AF282092 |
| *B. kurilensis* | Russia, Far East | *Ezhkin* M-0182620 (M) | MH048610 |
| *B. kurilensis* | Russia, Far East | *Ezhkin* M-0182621 (M) | MH048611 |
| *B. kurilensis* | Russia, Far East | *Ezhkin* M-0182622 (M) | MH048612 |
| *B. laurocerasi* | Russia, Far East | *Galanina* 424 (VBGI) | MH048609 |
| *B. laurocerasi* | USA | *Wetmore* 74318 (MIN) | AF282078 |
| *B. lutescens* | USA | *Ekman* L1161 (LD) | AF282082 |
| *B. medialis* | USA | *Ekman* L1193 (LD)  | AF282102 |
| *B. polychroa* | Sweden | *Knutsson* 91-215 (hb. Knutsson) | AF282089 |
| *B. rosella* | Sweden | *Ekman* 3117 (BG) | AF282086 |
| *B. rubella* | Sweden | *Ekman* 3021 (BG) | AF282087 |
| *B. rubella* | Russia, Far East | *Gerasimova* M-0182581 (M) | MH048630 |
| *B. rubella* | Poland | AFTOL-ID 1793 | HQ650644 |
| *B. rubella* | Hungary | *Hur* H06122 | EU266078 |
| *B. rubella* | Switzerland | LG DNA 578 | JQ796852 |
| *B. rubella* | Switzerland | LIFU076-16 | KX132984 |
| *B. sachalinensis* | Russia, Far East | *Ezhkin* M-0182619 (M) | MH048621 |
| *B. sachalinensis* | Russia, Far East | *Ezhkin* M-0182623 (M) | MH048622 |
| *B. sachalinensis* | Russia, Far East | *Ezhkin* SAK 147 (SAK) | MH048623 |
| *B. sachalinensis* | Russia, Far East | *Ezhkin* SAK 148 (SAK) | MH048624 |
| *B. sachalinensis* | Russia, Far East | *Ezhkin* M-0182624 (M) | MH048625 |
| *B. schweinitzii* | Russia, Far East | *Gerasimova* M-0182580 (M) | MH048613 |
| *B. schweinitzii* | USA | *Wetmore* 72619 (MIN) | AF282080 |
| *B. schweinitzii* | USA, Tennessee | AFTOL-ID 642 | DQ782850 |
| *B. schweinitzii* | USA | NY1452 | KX151761 |
| *B. schweinitzii* | USA | NY1448 | KX151762 |
| *B. schweinitzii* | USA | NY1449 | KX151763 |
| *B. schweinitzii* | USA | NY1451 | KX151764 |
| *B. schweinitzii* | USA | NY1453 | KX151765 |
| *B. schweinitzii* | USA | NY1450 | KX151766 |
| *B. scopulicola* | Sweden | *Ekman* 3106 (BG) | AF282084 |
| *B. sipmanii* | Spain | LG DNA 361 | JQ796853 |
| *B. sorediata* | USA | NY1539 | KX151767 |
| *B. sorediata* | USA | NY1389 | KX151768 |
| *B. sorediata* | USA | NY1747 | KX151769 |
| *B. sorediata* | USA | NY1748 | KX151770 |
| *B. sorediata* | USA | NY1397 | KX151771 |
| *B. sorediata* | USA | NY1544 | KX151772 |
| *B. sorediata* | USA | NY1546 | KX151773 |
| *B. sorediata* | USA | NY2294 | KX151774 |
| *B. sorediata* | USA | NY2496 | KX151775 |
| *Bacidia* sp. | Korea | KoLRI Udo-32 | AY756133 |
| *Bacidia* sp. | Switzerland | WSL DF223 | KX098339 |
| *Bacidia* sp.  | Switzerland | WSL DF72 | KX098340 |
| *Bacidia* sp. | Switzerland | WSL DF80 | KX098341 |
| *B. subincompta* | Sweden | *Ekman* 3413 (BG)  | AF282125 |
| *B. suffusa* | USA, Louisiana | *Tucker* 17000 (M) | MH048618 |
| *B. suffusa* | USA, Minnesota | *Wetmore* 40219 (M) | MH048619 |
| *B. suffusa* | Russia, Far East | *Gerasimova* M-0182593 (M) | MH048616 |
| *B. suffusa* | Russia, Far East | *Gerasimova* M-0182594 (M) | MH048617 |
| *B. suffusa* | Russia, Far East | *Gerasimova* M-0182601 (M) | MH048615 |
| *B. suffusa* | USA | *Wetmore* 74771 (MIN) | AF282091 |
| *B. vermifera* | Sweden | *T. Johansson* 1619 (BG) | AF282109 |
| *Bacidina adastra* | Poland | *P. Czarnota* 4961 (GPN)  | JN972442 |
| *B. arnoldiana* | Sweden | *Ekman* 3157 (BG)  | AF282093 |
| *B. arnoldiana* | Poland | AFTOL-ID 1845  | HQ650650 |
| *B. arnoldiana* | Czech Republic  | *P. Czarnota* 5301 (GPN) | JN972439 |
| *B. arnoldiana* | Romania | *P. Czarnota* 4895 (GPN) | JN972440 |
| *B. arnoldiana* | Slovakia | *P. Czarnota* 5384 (GPN) | JN972441 |
| *B. caligans*  | Sweden | *P. Johansson* 21 (UPS) | AF282096 |
| *B. chloroticula* | Norway | *Tønsberg* 18642 (BG) | AF282098 |
| *B. delicata*  | Sweden | *Fritz* 1996 (BG)  | AF282097 |
| *B. delicata*  | France | LG DNA 369 | JQ796854 |
| *B. egenula* | Norway | *Ekman* 3003 (BG)  | AF282095 |
| *B. flavoleprosa* | Czech Republic | *P. Czarnota* 5329 (GPN) | JN972443 |
| *B. inundata* | Norway | *Ekman* 3187 (BG)  | AF282094 |
| *B. neosquamulosa* | Slovakia | *P. Czarnota* 4888 (GPN) | JN972444 |
| *B. neosquamulosa* | Netherlands | LG DNA 490  | JQ796855 |
| *B. neosquamulosa* | Netherlands | LG DNA 491  | JQ796856 |
| *B. phacodes* | Sweden | *Ekman* 3414 (BG)  | AF282100 |
| *B. ramea*  | USA | *Ekman* s. n. (LD)  | AM292666 |
| *B. sulphurella*  | Czech Republic  | *P. Czarnota* 5275 (GPN) | JN972445 |
| *B. sulphurella*  | Czech Republic  | *P. Czarnota* 5967 (GPN) | JN972446 |
| *B. sulphurella* | Poland | *P. Czarnota* 7246 (GPN) | JN972447 |
| *Biatora beckhausii* | Norway | *Holien* 6744 (TRH)  | AF282071 |
| *B. globulosa* | Sweden | *Ekman* 3142 (BG) | AF282073 |
| *B. hemipolia* | USA | *Tønsberg* 25091 (BG) | AF282072 |
| *B. sphaeroides* | Norway | *Ekman* 3454 (BG)  | AF282068 |
| *B. vernalis* | Norway | *Tønsberg* 23757 (BG) | AF282070 |
| *Bilimbia sabuletorum* | Norway | *Ekman* 3091 (BG)  | AF282069 |
| *Cliostomum griffithii* | Sweden | *Ekman* 3022 (BG) | AF282076 |
| *Lecania cyrtella*  | Sweden | *Ekman* 3017 (BG)  | AF282067 |
| *L. naegelii*  | Austria | *Ekman* 3401 (BG)  | AF282101 |
| *Megalaria grossa* | Sweden | *Ekman* 3119 (BG)  | AF282075 |
| *M. laureri*\_unverified | Norway | *Ekman* 3466 (BG)  | AF282074 |
| *Ramalina fastigiata* | Italy | *Groner* 1479 (hb. Groner, DUKE) | U84583 |
| *R. siliquosa* | Italy | *W. L. Culberson* 13 100 (DUKE) | U84587 |
| *Thamnolecania brialmontii* | UK, South Sandwich Islands | *Convey* 121 (AAS) | AF282066 |
| *Toninia alutacea*  | Norway | *Haugan & Timdal* 4824 (O) | AF282116 |
| *T. aromatica* | Norway | *Haugan & Timdal* 4819 (O  | AF282126 |
| *T. candida* | Norway | *Bratli & Timdal* 8733 (O)  | AF282117 |
| *T. cinereovirens*  | Norway | *Haugan & Timdal* 7953 (O  | AF282104 |
| *T. coelestina*  | Norway | *Haugan* 5985 (O)  | AF282127 |
| *T. lutosa*  | Mexico | *Timdal* SON28/08 (O) | AF282114 |
| *T. nordlandica* | Norway | *Haugan & Timdal* 8129 (O  | AF282113 |
| *T. opuntioides* | Norway | *Haugan & Timdal* 8057 (O) | AF282119 |
| *T. pennina* | Norway | *Haugan & Timdal* 8122 (O  | AF282111 |
| *T. philippea*  | Norway | *Haugan & Timdal* H3750 (O) | AF282112 |
| *T. plumbina*  | Norway | *Haugan* 4352 (O)  | AF282107 |
| *T. rosulata*  | Norway | *Timdal* 8640 (O)  | AF282121 |
| *T. sculpturata* | Norway | *Haugan & Timdal* 7829 (O) | AF282110 |
| *T. sedifolia*  | Sweden | *Knutsson* 97-407 (BG)  | AF282120 |
| *T. squalida*  | Norway | *Haugan* 4970 (O)  | AF282103 |
| *T. talparum*  | USA | *Timdal* SON120/01 (O)  | AF282108 |
| *T. taurica* | Norway | *Haugan & Timdal* 8060 (O) | AF282118 |
| *T. toniniana* | Austria | *Türk* 20721 (O)  | AF282115 |
| *T. tristis* subsp. *tristis* | Norway | *Haugan & Timdal* 8109 (O) | AF282105 |
| *T. verrucarioides* | Norway | *Bratli & Timdal* 8709 (O)  | AF282128 |
| *Tylothallia biformigera* | Sweden | *Ekman* 3096 (BG)  | AF282077 |
| *Waynea californica* | USA | *Tønsberg* 21048 (BG) | AF282099 |