**Table S1. Taxa and corresponding GenBank or NOBAS[[1]](#footnote-1) sequence accession numbers in distribution maps (Figure 2) that do not appear in the ITS-LSU phylogenetic tree (Figure 1) and additional specimen and photo records lacking sequences. Sequences are ITS + 5.8S, unless otherwise marked as also containing LSU (28S) in addition to ITS.**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Taxon | Collection, accession number (herbarium) | Geographic origin | Sequence accession  ITS | | Number  LSU (28S) | | | | | |
| *Chromosera* aff*. citrinopallida* (as *C. citrinopallida*) | Boertmann 2006/2, DEN-29(CFMR) | Greenland | KF291072 | | | **\_\_\_\_\_\_\_\_\_** | |  | |  | |
| *C.* aff*. citrinopallida* | Lutzoni 930731-1, (DUKE) | Iceland | U66435 | | | U66435 | |  | |  | |
| *C.* aff*. citrinopallida* | 252385 (O-F) | Norway | NOBAS3254-16 | | | **\_\_\_\_\_\_\_\_\_** | |  | |  | |
| *C.* aff*. citrinopallida* | GG312\_86 | Norway | GU234145 | | | **\_\_\_\_\_\_\_\_\_** | |  | |  | |
| *C.* aff*. citrinopallida* (as *C. xanthochroa*) | 301181 (O-F) | Norway | NOBAS5180-18 | | | \_\_\_\_\_\_\_\_\_ | |  | |  | |
| *C. aff. citrinopallida* | 073495 (WTU-F) | Bonanza Creek, Alaska, USA | OQ98786 | | | \_\_\_\_\_\_\_\_\_ | |  | |  | |
| *Chromosera cyanophylla* | iNat[[2]](#footnote-2) 97780632 | Novosibersk, Russia | NNA | | | **\_\_\_\_\_\_\_\_\_** | |  | |  | |
| *C. cyanophylla* | iNat 128685170 | Zelenograd, Russia | NNA | | | **\_\_\_\_\_\_\_\_\_** | |  | |  | |
| *C. lilacifolia* (as *Chromosera*) | iNat 223263433, JLF11997 | Arizona, USA | OR872313 | | | \_\_\_\_\_\_\_\_\_ | |  | |  | |
| *C. lilacifolia* (as *C. cyanophylla*) | iNat 135828908 | S. Colorado, USA | \_\_\_\_\_\_\_\_\_ | | | \_\_\_\_\_\_\_\_\_ | |  | |  | |
| *C. lilacifolia* (as *Chromosera)* | iNat 24222314 | Indiana, USA | MN173970 | | | \_\_\_\_\_\_\_\_\_ | |  | |  | |
| *C. lilacifolia* | iNat 18524774 | Indiana, USA | MN173968 | | | \_\_\_\_\_\_\_\_\_ | |  | |  | |
| *C. lilacifolia* | iNat 27182368 | New Jersey, USA | MN752422 | | | \_\_\_\_\_\_\_\_\_ | |  | |  | |
| *C. lilacifolia* (as C. cyanophylla) | iNat 27588741, (NY) | New York, USA | MN752426 | | | \_\_\_\_\_\_\_\_\_ | |  | |  | |
| *Chromosera lilacina* | OTU1072, tundra soil | Alaska, USA | MN152161 | | | **\_\_\_\_\_\_\_\_\_** | |  | |  | |
| *C. lilacina,* | 72973 (O-F) | Norway | NOBAS photo | | | **\_\_\_\_\_\_\_\_\_** | |  | |  | |
| *C. lilacina* | 259847 (O-F) | Norway | NOBAS photo | | | **\_\_\_\_\_\_\_\_\_** | |  | |  | |
| *C. lilacina* | GAJ.11431 (OULU) | Finland | NOBAS photo | | | **\_\_\_\_\_\_\_\_\_** | |  | |  | |
| *Chromosera loreleiae* (as *C. cyanophylla*) | iNat166099724, 005387 (HAY-F) | California, USA | OR750619 | | | \_\_\_\_\_\_\_\_\_ | |  | |  | |
| *C. loreleiae* “ | iNat165851695, 003041 (HAY-F) | California, USA | OR656490 | | | \_\_\_\_\_\_\_\_\_ | |  | |  | |
| *C. loreleiae* “ | iNat167244818, 004955 (HAY-F) | California, USA | PP849881 | | | \_\_\_\_\_\_\_\_\_ | |  | |  | |
| *C. loreleiae* “ | iNat153604651, 000710 (HAY-F) | California, USA | OR886743 | | | \_\_\_\_\_\_\_\_\_ | |  | |  | |
| *C. loreleiae (*as *C. cyanophylla)* | MUOB 317467 | California, USA | MH42998 | | | \_\_\_\_\_\_\_\_\_ | |  | |  | |
| *C. loreleiae* | 208603 (DAOM) | N. Colorado, USA | \_\_\_\_\_\_\_\_\_ | | | AF261455 | |  | |  | |
| *C. loreleiae* | Cripps SH0028, 1648 (DUKE) | Montana, USA | AF261456 | | | AF261456 | |  | |  | |
|  |  |  |  | | |  | |  | |  | |
| *C. loreleiae* | Norvell & Redhead 7577, 208603 (DAOM) | Oregon, USA | AF2614554 | | | **\_\_\_\_\_\_\_\_\_** | |  | |  | |
| *C. loreleiae* “ | SAT-07-126-02, 00132 (WTU-F) | Washington, USA | **\_\_\_\_\_\_\_\_\_** | | | **\_\_\_\_\_\_\_\_\_** | |  | |  | |
| *C. loreleiae* “ | IS1725, 001646 (WTU-F) | Washington, USA | **\_\_\_\_\_\_\_\_\_** | | | **\_\_\_\_\_\_\_\_\_** | |  | |  | |
| *C. loreleiae* “ | 1cMWB52700, 001655 (WTU-F) | Washington, USA | **\_\_\_\_\_\_\_\_\_\_\_\_** |  | | | **\_\_\_\_\_\_\_\_** |  |
| *C. loreleiae* (as *Chromosera*) | iNat 34380700 | Washington, USA | **\_\_\_\_\_\_\_\_\_** | | | **\_\_\_\_\_\_\_\_\_** | |  | |  | |
| *Chromosera xanthochroa* | 55746 K(M) | England | EU784356 | | | **\_\_\_\_\_\_\_\_\_** | |  | |  | |
| *C. xanthochroa* (as *C. citrinopallida*) | 301181 (O-F) | Norway | NOBAS5180-18 | | | **\_\_\_\_\_\_\_\_\_** | |  | |  | |
| *Chrysomphalina chrysophylla* | 899106 (PRM) | Czech Republic | LT854035 | | | **\_\_\_\_\_\_\_\_\_** | |  | |  | |
|  |  |  |  | | |  | |  | |  | |
| *Chrysomphalina grossula* | 113683 (OSC) | Oregon, USA | EU644704 | | | **\_\_\_\_\_\_\_\_\_** | |  | |  | |

1. NOBASS is the acronym for Barcode of Life Data (BOLD) <http://www.boldsystems.org/index.php/Login/page?destination=MAS_Management_UserConsole> [↑](#footnote-ref-1)
2. iNat is an abbreviation for iNaturalist <https://www.inaturalist.org/home> [↑](#footnote-ref-2)