**Supplementary Table S1.** Specimens of *Xanthoparmelia* included in the molecular study: species, voucher information, country, GenBank Accession numbers for ITS, mtSSU and nuLSU sequences, respectively. Newly generated sequences are indicated in bold. Specimens of collapsed nodes for Fig. 1 are marked with their respective clade.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Species** | **Specimen\_voucher** | **Country** | **ITS** | **mtSSU** | **nuLSU** | **Clade** |
| *Xanthoparmelia adhaerens* | MAF-LICH 16212 | South Africa | HM125744 | HM125722 | HM125766 |  |
| *Xanthoparmelia adhaerens* | MAF-LICH 16213 | South Africa | HM125746 | HM125724 | HM125768 |  |
| *Xanthoparmelia ajoensis* | Barcenas Pena, 5898 | Mexico: Puebla | MH580218 | MH699893 | MH699913 | Holarctic Clade |
| *Xanthoparmelia ajoensis* | Barcenas Pena, 5900 | Mexico: Puebla | MH580219 | MH699894 | MH699914 | Holarctic Clade |
| *Xanthoparmelia ajoensis* | Barcenas Pena, 5914 | Mexico: Puebla | MH580220 | MH699895 | MH699915 | Holarctic Clade |
| *Xanthoparmelia aliphaticella* | E905 (MAF Lich) | Kenya | MG695535 | MG695785 | MG695637 |  |
| *Xanthoparmelia aliphaticella* | MAF-Lich 17191 | South Africa | JQ912377 | - | JQ912470 |  |
| *Xanthoparmelia aliphaticella* | MAF-Lich 17192 | South Africa | JQ912379 | - | JQ912472 |  |
| *Xanthoparmelia amphixanthoides* | Wirth B 60 0201807 | South Africa | **OQ356406** | **OQ366462** | **OQ366508** |  |
| *Xanthoparmelia amphixanthoides* | Wirth B 60 0201808 | South Africa | **OQ356407** | **-** | **-** |  |
| *Xanthoparmelia amplexula* | Elix 31576 (HBG); DNA#1666 | Australia: Australian Capital Territory | DQ167456 | - | - | Australian Clade B |
| *Xanthoparmelia angustiphylla* | MAF 6768 | USA | AY581092 | AY582328 | AY578958 | Holarctic Clade |
| *Xanthoparmelia annexa* | Kirika 3087 (F) | Kenya | MG695537 | MG695787 | MG695639 |  |
| *Xanthoparmelia annexa* | Kirika 3693 (F) | Kenya | MG695536 | MG695786 | MG695638 |  |
| *Xanthoparmelia arapilensis* | Elix 46154 (F) | Australia | MG695538 | MG695788 | MG695640 | Australian Clade B |
| *Xanthoparmelia atroventralis* | Kirika 4378 (F) | Kenya | MG695539 | MG695789 | MG695641 |  |
| *Xanthoparmelia atroviridis* | 17154 (MAF-Lich) | South Africa | MG695540 | MG695790 | MG695642 |  |
| *Xanthoparmelia atroviridis* | 17163 (MAF-Lich) | South Africa | MG695541 | MG695791 | MG695643 |  |
| *Xanthoparmelia atroviridis* | MAF-Lich 17153 | South Africa | JQ912349 | - | JQ912446 |  |
| *Xanthoparmelia atroviridis* | MAF-Lich 17154 | South Africa | JQ912320 | - | JQ912419 |  |
| *Xanthoparmelia atroviridis* | MAF-Lich 17158 | South Africa | JQ912314 | - | JQ912415 |  |
| *Xanthoparmelia atroviridis* | MAF-Lich 17163 | South Africa | JQ912329 | - | JQ912425 |  |
| *Xanthoparmelia atroviridis* | MAF-Lich 17168 | South Africa | JQ912351 | - | JQ912448 |  |
| *Xanthoparmelia atticoides* | MAF 6744 | USA | AY581066 | AY582302 | AY578929 | Holarctic Clade |
| *Xanthoparmelia austroafricana* | Kirika 4485 (F) | Kenya | MG695542 | - | MG695644 |  |
| *Xanthoparmelia azaniensis* | MAF-Lich 14269 | South Africa: Matroosberg | EF042900 | EF025478 | EF042910 |  |
| *Xanthoparmelia azaniensis* | T. Feuerer (HBG). DNA 1354 (HBG, LD) | South Africa | AY340874 | - | - |  |
| *Xanthoparmelia barbatica* | Elix 46158 (F) | Australia | MG695543 | MG695792 | MG695645 | Australian Clade B |
| *Xanthoparmelia bibax* | Wirth B 60 0198686 | South Africa | **OQ356361** | **-** | **OQ366490** |  |
| *Xanthoparmelia bibax* | MAF-Lich 15530-2 | South Africa | GU903332 | GU903330 | GU903341 |  |
| *Xanthoparmelia brachinaensis* | Elix 30651 (CANB) | Australia | AY581062 | - | AY578925 |  |
| *Xanthoparmelia bungendorensis* | Widhelm et al. 2132 (F) | Australia: Tasmania | MG695582 | MG695840 | MG695682 | Australian Clade B |
| *Xanthoparmelia cafferensis* | Wirth B 60 0201814 | South Africa | **OQ356376** | **OQ366454** | **OQ366484** |  |
| *Xanthoparmelia cafferensis* | MAF-Lich 14268 | South Africa: Matroosberg | EF042901 | EF025479 | EF042911 |  |
| *Xanthoparmelia cafferensis* | T. Feuerer (HBG). DNA 1356 (HBG, LD) | South Africa | AY340875 | - | - |  |
| *Xanthoparmelia californica* | Barcenas-Pena, 7339 | Mexico: Zacatecas | MW553769 | - | MW567175 | Holarctic Clade |
| *Xanthoparmelia californica* | BRY 55185 | USA | HM578641 | - | HM579053 | Holarctic Clade |
| *Xanthoparmelia californica* | BRY 55387 | USA | HM578837 | - | HM579249 | Holarctic Clade |
| *Xanthoparmelia caliginosa* | Wirth B 60 0198681 | South Africa | **OQ356374** | **-** | **OQ366482** |  |
| *Xanthoparmelia caliginosa* | MAF-Lich 17150 | South Africa | JQ912315 | - | - |  |
| *Xanthoparmelia caliginosa* | MAF-Lich 17152 | South Africa | JQ912317 | - | - |  |
| *Xanthoparmelia caliginosa* | MAF-Lich 17156 | South Africa | JQ912333 | - | JQ912430 |  |
| *Xanthoparmelia caliginosa* | MAF-Lich 17157 | South Africa | JQ912350 | - | JQ912447 |  |
| *Xanthoparmelia caliginosa* | MAF-Lich 17186 | South Africa | JQ912348 | - | JQ912445 |  |
| *Xanthoparmelia camtschadalis* | BRY 55174 | USA | HM578630 | - | HM579042 | Holarctic Clade |
| *Xanthoparmelia camtschadalis* | BRY 55291 | USA | HM578744 | - | HM579156 | Holarctic Clade |
| *Xanthoparmelia camtschadalis* | BRY 55292 | USA | HM578745 | - | HM579157 | Holarctic Clade |
| *Xanthoparmelia camtschadalis* | BRY 55348 | USA | HM578799 | - | HM579210 | Holarctic Clade |
| *Xanthoparmelia camtschadalis* | BRY 55349 | USA | HM578800 | - | HM579211 | Holarctic Clade |
| *Xanthoparmelia camtschadalis* | BRY 55358 | USA | HM578809 | - | HM579220 | Holarctic Clade |
| *Xanthoparmelia camtschadalis* | BRY 55359 | USA | HM578810 | - | HM579221 | Holarctic Clade |
| *Xanthoparmelia camtschadalis* | BRY 55360 | USA | HM578811 | - | HM579222 | Holarctic Clade |
| *Xanthoparmelia camtschadalis* | BRY 55361 | USA | HM578812 | - | HM579223 | Holarctic Clade |
| *Xanthoparmelia camtschadalis* | BRY 55362 | USA | HM578813 | - | HM579224 | Holarctic Clade |
| *Xanthoparmelia camtschadalis* | BRY 55363 | USA | HM578814 | - | HM579225 | Holarctic Clade |
| *Xanthoparmelia camtschadalis* | BRY 55364 | USA | HM578815 | - | HM579226 | Holarctic Clade |
| *Xanthoparmelia camtschadalis* | BRY 55374 | USA | HM578824 | - | HM579236 | Holarctic Clade |
| *Xanthoparmelia camtschadalis* | BRY 55434 | USA | HM578884 | - | HM579295 | Holarctic Clade |
| *Xanthoparmelia camtschadalis* | BRY 55435 | USA | HM578885 | - | HM579296 | Holarctic Clade |
| *Xanthoparmelia camtschadalis* | BRY 55436 | USA | HM578886 | - | HM579297 | Holarctic Clade |
| *Xanthoparmelia camtschadalis* | BRY 55453 | USA | HM578905 | - | HM579313 | Holarctic Clade |
| *Xanthoparmelia camtschadalis* | BRY 55473 | USA | HM578925 | - | HM579333 | Holarctic Clade |
| *Xanthoparmelia camtschadalis* | BRY 55488 | USA | HM578940 | - | HM579347 | Holarctic Clade |
| *Xanthoparmelia camtschadalis* | BRY 55492 | USA | HM578944 | - | HM579351 | Holarctic Clade |
| *Xanthoparmelia camtschadalis* | BRY 55504 | USA | HM578956 | - | HM579363 | Holarctic Clade |
| *Xanthoparmelia camtschadalis* | BRY 55506 | USA | HM578958 | - | HM579365 | Holarctic Clade |
| *Xanthoparmelia camtschadalis* | BRY 55507 | USA | HM578959 | - | HM579366 | Holarctic Clade |
| *Xanthoparmelia camtschadalis* | BRY 55526 | USA | HM578979 | - | HM579385 | Holarctic Clade |
| *Xanthoparmelia camtschadalis* | BRY 55527 | USA | HM578980 | - | HM579386 | Holarctic Clade |
| *Xanthoparmelia camtschadalis* | BRY 55550 | USA | HM579003 | - | HM579409 | Holarctic Clade |
| *Xanthoparmelia camtschadalis* | BRY 55551 | USA | HM579004 | - | HM579410 | Holarctic Clade |
| *Xanthoparmelia* aff. *caparidensis* | MAF-Lich 16113 | South Africa | GU461305 | GU461302 | GU461303 |  |
| *Xanthoparmelia ceresina* | Wirth B 60 0198822 | South Africa | **OQ356408** | **OQ366460** | **OQ366479** |  |
| *Xanthoparmelia chalybaeizans* | Wirth B 60 0198674 | South Africa | **OQ356386** | **OQ366433** | **OQ366510** |  |
| *Xanthoparmelia chalybaeizans* | Wirth B 60 0201773 | South Africa | **OQ356384** | **OQ366458** | **OQ366515** |  |
| *Xanthoparmelia chlorea* | MAF-Lich 15553 | South Africa | GU994582 | GU994678 | - |  |
| *Xanthoparmelia* aff. *chlorochroa* | Leavitt 082 (BRY-C) | USA: Utah | MG695498 | MG695746 | MG695599 | Holarctic Clade |
| *Xanthoparmelia* aff. *chlorochroa* | Leavitt 098 (BRY-C) | Mexico: Puebla | MG695501 | MG695749 | MG695602 | Holarctic Clade |
| *Xanthoparmelia* aff. *chlorochroa* | Leavitt 9866 (BRY-C) | USA: Nevada | MG695499 | MG695747 | MG695600 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | 20175555 | China | MK625188 | - | - | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55154 | USA | HM578610 | - | HM579022 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55155 | USA | HM578611 | - | HM579023 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55158 | USA | HM578614 | - | HM579026 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55159 | USA | HM578615 | - | HM579027 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55160 | USA | HM578616 | - | HM579028 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55161 | USA | HM578617 | - | HM579029 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55164 | USA | HM578620 | - | HM579032 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55165 | USA | HM578621 | - | HM579033 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55166 | USA | HM578622 | - | HM579034 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55175 | USA | HM578631 | - | HM579043 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55176 | USA | HM578632 | - | HM579044 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55179 | USA | HM578635 | - | HM579047 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55196 | USA | HM578652 | - | HM579064 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55198 | USA | HM578654 | - | HM579066 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55199 | USA | HM578655 | - | HM579067 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55213 | USA | HM578668 | - | HM579078 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55214 | USA | HM578669 | - | HM579079 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55224 | USA | HM578679 | - | HM579089 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55225 | USA | HM578680 | - | HM579090 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55226 | USA | HM578681 | - | HM579091 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55227 | USA | HM578682 | - | HM579092 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55231 | USA | HM578686 | - | HM579096 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55232 | USA | HM578687 | - | HM579097 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55235 | USA | HM578690 | - | HM579100 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55236 | USA | HM578691 | - | HM579101 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55237 | USA | HM578692 | - | HM579102 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55238 | USA | HM578693 | - | HM579103 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55239 | USA | HM578694 | - | HM579104 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55247 | USA | HM578702 | - | HM579112 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55248 | USA | HM578703 | - | HM579113 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55249 | USA | HM578704 | - | HM579114 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55250 | USA | HM578705 | - | HM579115 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55251 | USA | HM578706 | - | HM579116 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55252 | USA | HM578707 | - | HM579117 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55253 | USA | HM578708 | - | HM579118 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55254 | USA | HM578709 | - | HM579119 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55268 | USA | HM578722 | - | HM579133 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55269 | USA | HM578723 | - | HM579134 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55270 | USA | HM578724 | - | HM579135 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55277 | USA | HM578730 | - | HM579142 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55278 | USA | HM578731 | - | HM579143 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55279 | USA | HM578732 | - | HM579144 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55280 | USA | HM578733 | - | HM579145 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55287 | USA | HM578740 | - | HM579152 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55288 | USA | HM578741 | - | HM579153 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55289 | USA | HM578742 | - | HM579154 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55290 | USA | HM578743 | - | HM579155 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55293 | USA | HM578746 | - | HM579158 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55294 | USA | HM578747 | - | HM579159 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55295 | USA | HM578748 | - | HM579160 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55296 | USA | HM578749 | - | HM579161 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55297 | USA | HM578750 | - | HM579162 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55302 | USA | HM578755 | - | HM579167 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55304 | USA | HM578757 | - | HM579169 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55305 | USA | HM578758 | - | HM579170 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55315 | USA | HM578767 | - | HM579179 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55330 | USA | HM578782 | - | HM579194 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55331 | USA | HM578783 | - | HM579195 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55336 | USA | HM578787 | - | HM579200 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55337 | USA | HM578788 | - | HM579201 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55338 | USA | HM578789 | - | HM579202 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55340 | USA | HM578791 | - | HM579203 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55342 | USA | HM578793 | - | HM579204 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55343 | USA | HM578794 | - | HM579205 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55344 | USA | HM578795 | - | HM579206 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55345 | USA | HM578796 | - | HM579207 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55346 | USA | HM578797 | - | HM579208 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55355 | USA | HM578806 | - | HM579217 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55356 | USA | HM578807 | - | HM579218 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55357 | USA | HM578808 | - | HM579219 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55372 | USA | HM578822 | - | HM579234 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55373 | USA | HM578823 | - | HM579235 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55375 | USA | HM578825 | - | HM579237 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55376 | USA | HM578826 | - | HM579238 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55377 | USA | HM578827 | - | HM579239 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55378 | USA | HM578828 | - | HM579240 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55381 | USA | HM578831 | - | HM579243 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55382 | USA | HM578832 | - | HM579244 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55384 | USA | HM578834 | - | HM579246 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55385 | USA | HM578835 | - | HM579247 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55403 | USA | HM578853 | - | HM579265 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55404 | USA | HM578854 | - | HM579266 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55405 | USA | HM578855 | - | HM579267 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55406 | USA | HM578856 | - | HM579268 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55409 | USA | HM578859 | - | HM579271 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55413 | USA | HM578863 | - | - | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55415 | USA | HM578865 | - | HM579276 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55416 | USA | HM578866 | - | HM579277 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55417 | USA | HM578867 | - | HM579278 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55424 | USA | HM578874 | - | HM579285 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55425 | USA | HM578875 | - | HM579286 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55430 | USA | HM578880 | - | HM579291 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55431 | USA | HM578881 | - | HM579292 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55432 | USA | HM578882 | - | HM579293 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55433 | USA | HM578883 | - | HM579294 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55437 | USA | HM578887 | - | HM579298 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55438 | USA | HM578890 | - | HM579301 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55444 | USA | HM578896 | - | HM579304 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55445 | USA | HM578897 | - | HM579305 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55446 | USA | HM578898 | - | HM579306 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55448 | USA | HM578900 | - | HM579308 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55451 | USA | HM578903 | - | HM579311 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55452 | USA | HM578904 | - | HM579312 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55454 | USA | HM578906 | - | HM579314 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55455 | USA | HM578907 | - | HM579315 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55456 | USA | HM578908 | - | HM579316 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55457 | USA | HM578909 | - | HM579317 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55458 | USA | HM578910 | - | HM579318 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55459 | USA | HM578911 | - | HM579319 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55460 | USA | HM578912 | - | HM579320 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55461 | USA | HM578913 | - | HM579321 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55465 | USA | HM578917 | - | HM579325 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55467 | USA | HM578919 | - | HM579327 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55468 | USA | HM578920 | - | HM579328 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55469 | USA | HM578921 | - | HM579329 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55470 | USA | HM578922 | - | HM579330 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55471 | USA | HM578923 | - | HM579331 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55472 | USA | HM578924 | - | HM579332 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55475 | USA | HM578927 | - | HM579334 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55476 | USA | HM578928 | - | HM579335 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55477 | USA | HM578929 | - | HM579336 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55478 | USA | HM578930 | - | HM579337 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55479 | USA | HM578931 | - | HM579338 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55480 | USA | HM578932 | - | HM579339 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55481 | USA | HM578933 | - | HM579340 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55482 | USA | HM578934 | - | HM579341 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55483 | USA | HM578935 | - | HM579342 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55484 | USA | HM578936 | - | HM579343 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55485 | USA | HM578937 | - | HM579344 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55486 | USA | HM578938 | - | HM579345 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55487 | USA | HM578939 | - | HM579346 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55489 | USA | HM578941 | - | HM579348 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55490 | USA | HM578942 | - | HM579349 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55491 | USA | HM578943 | - | HM579350 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55493 | USA | HM578945 | - | HM579352 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55494 | USA | HM578946 | - | HM579353 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55495 | USA | HM578947 | - | HM579354 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55496 | USA | HM578948 | - | HM579355 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55497 | USA | HM578949 | - | HM579356 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55499 | USA | HM578951 | - | HM579358 | Holarctic Clade |
| *Xanthoparmelia chlorochroa* | BRY 55500 | USA | HM578952 | - | HM579359 | Holarctic Clade |
| *Xanthoparmelia* aff. *coloradoensis* | Leavitt 135 (BRY-C) | USA: Utah | MG695500 | MG695748 | MG695601 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | Barcenas-Pena, 7160 | Mexico: Estado de Mexico | MW553770 | MW567198 | MW567176 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55151 | USA | HM578607 | - | HM579019 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55156 | USA | HM578612 | - | HM579024 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55162 | USA | HM578618 | - | HM579030 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55167 | USA | HM578623 | - | HM579035 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55168 | USA | HM578624 | - | HM579036 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55169 | USA | HM578625 | - | HM579037 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55170 | USA | HM578626 | - | HM579038 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55171 | USA | HM578627 | - | HM579039 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55172 | USA | HM578628 | - | HM579040 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55178 | USA | HM578634 | - | HM579046 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55180 | USA | HM578636 | - | HM579048 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55181 | USA | HM578637 | - | HM579049 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55182 | USA | HM578638 | - | HM579050 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55183 | USA | HM578639 | - | HM579051 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55200 | USA | HM578656 | - | HM579068 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55201 | USA | HM578657 | - | HM579069 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55205 | USA | HM578661 | - | HM579073 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55209 | USA | HM578664 | - | HM579075 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55212 | USA | HM578667 | - | HM579077 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55218 | USA | HM578673 | - | HM579083 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55228 | USA | HM578683 | - | HM579093 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55229 | USA | HM578684 | - | HM579094 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55240 | USA | HM578695 | - | HM579105 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55241 | USA | HM578696 | - | HM579106 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55255 | USA | HM578710 | - | HM579120 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55271 | USA | HM578725 | - | HM579136 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55308 | USA | HM578760 | - | HM579172 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55310 | USA | HM578762 | - | HM579174 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55312 | USA | HM578764 | - | HM579176 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55388 | USA | HM578838 | - | HM579250 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55389 | USA | HM578839 | - | HM579251 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55390 | USA | HM578840 | - | HM579252 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55427 | USA | HM578877 | - | HM579288 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55524 | USA | HM578977 | - | HM579383 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55525 | USA | HM578978 | - | HM579384 | Holarctic Clade |
| *Xanthoparmelia coloradoensis* | BRY 55564 | USA | HM579017 | - | HM579423 | Holarctic Clade |
| *Xanthoparmelia colorata* | Wirth B 60 0198689 | South Africa | **OQ356380** | **-** | **OQ366516** |  |
| *Xanthoparmelia colorata* | Wirth B 60 0198828 | South Africa | **OQ356382** | **-** | **OQ366480** |  |
| *Xanthoparmelia competita* | MAF-Lich 17189 | South Africa | JQ912383 | MG695794 | JQ912476 |  |
| *Xanthoparmelia condyloides* | MAF-LICH 16444 | South Africa | HM125754 | - | - |  |
| *Xanthoparmelia condyloides* | MAF-Lich 17185 | South Africa | JQ912374 | MG695795 | JQ912468 |  |
| *Xanthoparmelia* cf. *conspersa* | M-0194061 | Germany: Saxony-Anhalt, Harz | MH134524 | - | - | Holarctic Clade |
| *Xanthoparmelia* cf. *conspersa* | M-0194062 | Germany: Saxony-Anhalt, Harz | MH134525 | - | - | Holarctic Clade |
| *Xanthoparmelia* cf. *conspersa* | M-0194063 | Germany: Saxony-Anhalt, Harz | MH134526 | - | - | Holarctic Clade |
| *Xanthoparmelia* cf. *conspersa* | TO3656 Cryptogamia | Italy: Piedmont, Susa Valley, Bussoleno, loc. Tignai | KP129451 | - | - | Holarctic Clade |
| *Xanthoparmelia* cf. *conspersa* | TO3659 Cryptogamia | Italy: Piedmont, Susa Valley, Bussoleno, loc. Tignai | KP129446 | - | - | Holarctic Clade |
| *Xanthoparmelia* cf. *conspersa* | TO3660 Cryptogamia | Italy: Piedmont, Susa Valley, Bussoleno, loc. Tignai | KP129445 | - | - | Holarctic Clade |
| *Xanthoparmelia* cf. *conspersa* | TO3661 Cryptogamia | Italy: Piedmont, Susa Valley, Bussoleno, loc. Tignai | KP129450 | - | - | Holarctic Clade |
| *Xanthoparmelia conspersa* | 2018o172 | China | MK629941 | - | - | Holarctic Clade |
| *Xanthoparmelia conspersa* | KoLRI000424 | South Korea | KM250139 | - | KM250139 | Holarctic Clade |
| *Xanthoparmelia conspersa* | MAF 6793 | Spain | AY581096 | - | AY578962 | Holarctic Clade |
| *Xanthoparmelia conspersa* | Ruiz-Cazares, 1583 | Mexico: Mexico City | MW553778 | MW567206 | MW567183 | Holarctic Clade |
| *Xanthoparmelia contrasta* | Wirth & Wirth B 60 0198826 | South Africa | **OQ356397** | **OQ366444** | **OQ366499** |  |
| *Xanthoparmelia contrasta* | Wirth & Coetzee B 60 0198853 | South Africa | **OQ356398** | **-** | **OQ366493** |  |
| *Xanthoparmelia convexula* | Kirika 3816 (F) | Kenya | MG695544 | MG695796 | - |  |
| *Xanthoparmelia convolutella* | Elix 31925 (HBG); DNA#1668 | Australia: Western Australia | DQ167452 | - | - | Australian Clade B |
| *Xanthoparmelia cordillerana* | MAF-Lich 17198 | Chile | JQ912358 | MG695797 | JQ912453 | Holarctic Clade |
| *Xanthoparmelia* cf. *coreana* | 5477 | South Korea | KJ170881 | - | KJ170881 | Holarctic Clade |
| *Xanthoparmelia coreana* | 5561 | South Korea | KJ170890 | - | KJ170890 | Holarctic Clade |
| *Xanthoparmelia coreana* | 5562 | South Korea | KJ170882 | - | KJ170882 | Holarctic Clade |
| *Xanthoparmelia coreana* | 5616 | South Korea | KJ170891 | - | KJ170891 | Holarctic Clade |
| *Xanthoparmelia coreana* | 11080 | South Korea | KJ170870 | - | KJ170870 | Holarctic Clade |
| *Xanthoparmelia coreana* | 13905 | South Korea | KJ170873 | - | KJ170873 | Holarctic Clade |
| *Xanthoparmelia coreana* | 15763 | South Korea | KJ170878 | - | KJ170878 | Holarctic Clade |
| *Xanthoparmelia coreana* | KoLRI004679 | South Korea | KM250130 | - | KM250130 | Holarctic Clade |
| *Xanthoparmelia coreana* | KoLRI005398 | South Korea | KM250132 | - | KM250132 | Holarctic Clade |
| *Xanthoparmelia coreana* | KoLRI005561 | South Korea | KM250138 | - | KM250138 | Holarctic Clade |
| *Xanthoparmelia coreana* | KoLRI005616 | South Korea | KM250133 | - | KM250133 | Holarctic Clade |
| *Xanthoparmelia coreana* | KoLRI009782 | South Korea | KM250134 | - | KM250134 | Holarctic Clade |
| *Xanthoparmelia coreana* | KoLRI011080 | South Korea | KM250135 | - | KM250135 | Holarctic Clade |
| *Xanthoparmelia coreana* | KoLRI014855 | South Korea | KM250137 | - | KM250137 | Holarctic Clade |
| *Xanthoparmelia coreana* | KoLRI015763 | South Korea | KM250129 | - | KM250129 | Holarctic Clade |
| *Xanthoparmelia crespoae* | MAF 7440 | Australia | AY581098 | AY582333 | AY578964 | Australian Clade B |
| *Xanthoparmelia crespoae* | MAF 7524 | Australia | AY581097 | AY582332 | AY578963 | Australian Clade B |
| *Xanthoparmelia cumberlandia* | Barcenas-Pena, 7511 | Mexico: Queretaro | MW553766 | MW567197 | MW567172 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BIOUG24047-F07 | Canada: Ontario, Waterloo Region, Raresites Charitable Research Reserve | KT695369 | - | - | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55152 | USA | HM578608 | - | HM579020 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55153 | USA | HM578609 | - | HM579021 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55173 | USA | HM578629 | - | HM579041 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55177 | USA | HM578633 | - | HM579045 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55184 | USA | HM578640 | - | HM579052 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55186 | USA | HM578642 | - | HM579054 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55187 | USA | HM578643 | - | HM579055 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55188 | USA | HM578644 | - | HM579056 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55189 | USA | HM578645 | - | HM579057 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55190 | USA | HM578646 | - | HM579058 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55191 | USA | HM578647 | - | HM579059 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55192 | USA | HM578648 | - | HM579060 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55193 | USA | HM578649 | - | HM579061 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55195 | USA | HM578651 | - | HM579063 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55197 | USA | HM578653 | - | HM579065 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55202 | USA | HM578658 | - | HM579070 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55203 | USA | HM578659 | - | HM579071 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55204 | USA | HM578660 | - | HM579072 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55208 | USA | HM578663 | - | HM579074 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55210 | USA | HM578665 | - | HM579076 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55216 | USA | HM578671 | - | HM579081 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55217 | USA | HM578672 | - | HM579082 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55219 | USA | HM578674 | - | HM579084 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55220 | USA | HM578675 | - | HM579085 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55221 | USA | HM578676 | - | HM579086 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55257 | USA | HM578712 | - | HM579122 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55275 | USA | HM578728 | - | HM579140 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55276 | USA | HM578729 | - | HM579141 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55281 | USA | HM578734 | - | HM579146 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55282 | USA | HM578735 | - | HM579147 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55283 | USA | HM578736 | - | HM579148 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55284 | USA | HM578737 | - | HM579149 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55286 | USA | HM578739 | - | HM579151 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55301 | USA | HM578754 | - | HM579166 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55325 | USA | HM578777 | - | HM579189 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55326 | USA | HM578778 | - | HM579190 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55327 | USA | HM578779 | - | HM579191 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55379 | USA | HM578829 | - | HM579241 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55380 | USA | HM578830 | - | HM579242 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55391 | USA | HM578841 | - | HM579253 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55392 | USA | HM578842 | - | HM579254 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55393 | USA | HM578843 | - | HM579255 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55394 | USA | HM578844 | - | HM579256 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55395 | USA | HM578845 | - | HM579257 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55396 | USA | HM578846 | - | HM579258 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55398 | USA | HM578848 | - | HM579260 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55441 | USA | HM578893 | - | HM579302 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55508 | USA | HM578960 | - | HM579367 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55509 | USA | HM578961 | - | HM579368 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55510 | USA | HM578962 | - | HM579369 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55513 | USA | HM578966 | - | HM579373 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55516 | USA | HM578969 | - | HM579376 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55517 | USA | HM578970 | - | HM579377 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55530 | USA | HM578983 | - | HM579389 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55531 | USA | HM578984 | - | HM579390 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55532 | USA | HM578985 | - | HM579391 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55533 | USA | HM578986 | - | HM579392 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55534 | USA | HM578987 | - | HM579393 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55537 | USA | HM578990 | - | HM579396 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55539 | USA | HM578992 | - | HM579398 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55540 | USA | HM578993 | - | HM579399 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55541 | USA | HM578994 | - | HM579400 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55546 | USA | HM578999 | - | HM579405 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55556 | USA | HM579009 | - | HM579415 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55560 | USA | HM579013 | - | HM579419 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | BRY 55566 | USA | HM579018 | - | HM579425 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | Harris 55563 (NYBG) | USA | KY859523 | KY859538 | KY859558 | Holarctic Clade |
| *Xanthoparmelia cumberlandia* | R. Harris 55563 (NY) | USA: Maine | MG695545 | MG695798 | MG695646 | Holarctic Clade |
| *Xanthoparmelia dayiana* | Elix 32010 (HBG); DNA#1664 | Australia: Western Australia | DQ167457 | - | - | Australian Clade B |
| *Xanthoparmelia* aff. *delisei* | MAF 7432 | Australia | AY581067 | AY582303 | AY578930 | Australian Clade C |
| *Xanthoparmelia delisei* | MAF 7659 | Spain | AY581068 | AY582304 | AY578931 | Pulla Clade |
| *Xanthoparmelia delisei* | MAF-Lich 17134 | Turkey | JQ912308 | - | JQ912409 | Pulla Clade |
| *Xanthoparmelia delisei* | MAF-Lich 17135 | Turkey | JQ912305 | - | JQ912406 | Pulla Clade |
| *Xanthoparmelia delisei* | MAF-Lich 17139 | Turkey | JQ912307 | - | JQ912408 | Pulla Clade |
| *Xanthoparmelia desertorum* | 20175571 | China | MK635500 | - | - | Holarctic Clade |
| *Xanthoparmelia dierythra* | BRY 55234 | Mexico | HM578689 | - | - | Holarctic Clade |
| *Xanthoparmelia dierythra* | BRY 55300 | USA | HM578753 | - | HM579165 | Holarctic Clade |
| *Xanthoparmelia dierythra* | BRY 55329 | USA | HM578781 | - | HM579193 | Holarctic Clade |
| *Xanthoparmelia dierythra* | BRY 55383 | USA | HM578833 | - | HM579245 | Holarctic Clade |
| *Xanthoparmelia dierythra* | Leavitt 12-001 (F) | USA | KY859524 | KY859539 | KY859559 | Holarctic Clade |
| *Xanthoparmelia dierythra* | Leavitt 12-001illumina (BRY-C) | USA: Wisconsin | MG695546 | MG695799 | MG695647 | Holarctic Clade |
| *Xanthoparmelia dierythra* | Leavitt 12-001sanger (BRY-C) | USA: Wisconsin | MG695547 | MG695800 | MG695648 | Holarctic Clade |
| *Xanthoparmelia digitiformis* | MAF 7525 | Australia | AY581099 | AY582334 | AY578965 | Australian Clade B |
| *Xanthoparmelia durietzii* | 20175521 | China | MK635479 | - | - | Holarctic Clade |
| *Xanthoparmelia endomiltoides* | Wirth B 60 0198824 | South Africa | **OQ356378** | **-** | **-** |  |
| *Xanthoparmelia endomiltoides* | MAF-Lich 16223 | South Africa | GU992331 | - | JQ912455 |  |
| *Xanthoparmelia* aff. *epacridea* | MAF-LICH 16208 | South Africa | HM125752 | HM125733 | HM125777 |  |
| *Xanthoparmelia exornata* | MAF-Lich 14266 | South Africa: Cape region | EF042908 | EF025485 | EF108318 |  |
| *Xanthoparmelia filarszkyana* | Elix 46155 (F) | Australia | MG695548 | MG695801 | MG695649 | Australian Clade B |
| *Xanthoparmelia fissurina* | MAF-Lich 16219 | South Africa | GU992327 | - | - |  |
| *Xanthoparmelia fissurina* | MAF-Lich 17162 | South Africa | JQ912353 | - | JQ912450 |  |
| *Xanthoparmelia flavescentireagens* | Elix 46153 (F) | Australia | MG695549 | MG695802 | MG695650 | Australian Clade B |
| *Xanthoparmelia fumigata* | Elix 31960 (HBG); DNA#1662 | Australia: Western Australia | DQ167459 | - | - | Australian Clade B |
| *Xanthoparmelia* aff. *glabrans* | MAF 9912 | Spain | AY581072 | AY582308 | AY578935 | Pulla Clade |
| *Xanthoparmelia glabrans* | Wirth B 60 0201784 | South Africa | **OQ356375** | **OQ366446** | **-** |  |
| *Xanthoparmelia glabrans* | CANB 681875.1 | Australia | JQ912290 | - | JQ912392 | Australian Clade C |
| *Xanthoparmelia glabrans* | CANB 746334 | Australia | JQ912291 | - | JQ912393 | Australian Clade C |
| *Xanthoparmelia glabrans* | CANB 746340 | Australia | JQ912289 | - | JQ912391 | Australian Clade C |
| *Xanthoparmelia glabrans* | MAF 7665 | Australia | AY581069 | AY582305 | AY578932 | Australian Clade C |
| *Xanthoparmelia glabrans* | MAF-Lich 17137 | Turkey | JQ912306 | - | JQ912407 | Pulla Clade |
| *Xanthoparmelia glabrans* | MAF-Lich 17144 | Morocco | JQ912286 | - | JQ912388 | Pulla Clade |
| *Xanthoparmelia* aff. *greytonensis* | MAF-LICH 16210 | South Africa | HM125755 | - | HM125780 |  |
| *Xanthoparmelia greytonensis* | Wirth B 60 0198825 | South Africa | **OQ356372** | **OQ366469** | **-** |  |
| *Xanthoparmelia hirosakiensis* | 10532 | South Korea | KJ170876 | - | KJ170876 | Holarctic Clade |
| *Xanthoparmelia hottentotta* | MAF-Lich 14267 | South Africa: Cape region | EF042909 | EF025486 | EF042919 |  |
| *Xanthoparmelia hottentotta* | MAF-Lich 16216 | South Africa | GU992326 | - | - |  |
| *Xanthoparmelia hottentotta* | T. Feuerer & A. Thell (HBG), DNA994 (HBG, LD) | South Africa | AY251452 | - | - |  |
| *Xanthoparmelia hueana* | GZU 46511 | Namibia | AY581090 | AY582326 | AY578956 |  |
| *Xanthoparmelia hypofusca* | 02086946 (NY) | USA: West Virginia | MG695550 | MG695803 | MG695651 | Holarctic Clade |
| *Xanthoparmelia hypofusca* | NY:1024184 | USA: New York | HM066939 | - | - | Holarctic Clade |
| *Xanthoparmelia hypofusca* | NY:880782 | USA: Missouri | HM066940 | - | - | Holarctic Clade |
| *Xanthoparmelia hypofusca* | NY:974525 | USA: New Jersey | HM066941 | - | - | Holarctic Clade |
| *Xanthoparmelia hypofusca* | NY:975085 | USA: Pennsylvania | HM066942 | - | - | Holarctic Clade |
| *Xanthoparmelia hypofusca* | NY:975345 | USA: Pennsylvania | HM066943 | - | - | Holarctic Clade |
| *Xanthoparmelia hypoleiella* | Elix 31919 (HBG); DNA#1670 | Australia: Western Australia | DQ167455 | - | - |  |
| *Xanthoparmelia hypomelaena* | Barcenas-Pena, 7060 | Mexico: Estado de Mexico | MW553772 | MW567200 | - | Holarctic Clade |
| *Xanthoparmelia hypomelaena* | Barcenas-Pena, 7380 | Mexico: Zacatecas | MW553771 | MW567199 | MW567177 | Holarctic Clade |
| *Xanthoparmelia hypoprotocetrarica* | Elix 46161 (F) | Australia | MG695551 | MG695804 | MG695652 |  |
| *Xanthoparmelia hypoprotocetrarica* | MAF-Lich 17200 | Australia | JQ912378 | MG695805 | JQ912471 |  |
| *Xanthoparmelia hypopsila* | Kirika 4151 (F) | Kenya | MG695554 | MG695808 | MG695655 |  |
| *Xanthoparmelia hypopsila* | Kirika 4375illumina (F) | Kenya | MG695552 | MG695806 | MG695653 |  |
| *Xanthoparmelia hypopsila* | Kirika 4375sanger (F) | Kenya | MG695553 | MG695807 | MG695654 |  |
| *Xanthoparmelia idahoensis* | BRY 55347 | USA | HM578798 | - | HM579209 | Holarctic Clade |
| *Xanthoparmelia idahoensis* | BRY 55350 | USA | HM578801 | - | HM579212 | Holarctic Clade |
| *Xanthoparmelia idahoensis* | BRY 55351 | USA | HM578802 | - | HM579213 | Holarctic Clade |
| *Xanthoparmelia idahoensis* | BRY 55352 | USA | HM578803 | - | HM579214 | Holarctic Clade |
| *Xanthoparmelia idahoensis* | BRY 55353 | USA | HM578804 | - | HM579215 | Holarctic Clade |
| *Xanthoparmelia idahoensis* | BRY 55354 | USA | HM578805 | - | HM579216 | Holarctic Clade |
| *Xanthoparmelia idahoensis* | BRY 55463 | USA | HM578915 | - | HM579323 | Holarctic Clade |
| *Xanthoparmelia imitatrix* | MAF-Lich 17122 | Chile | JQ912282 | - | JQ912387 | Australian Clade C |
| *Xanthoparmelia imitatrix* | MAF-Lich 17123 | Chile | JQ912284 | - | JQ912389 | Australian Clade C |
| *Xanthoparmelia imitatrix* | MAF-Lich 17124 | Chile | JQ912326 | - | JQ912422 | Australian Clade C |
| *Xanthoparmelia imitatrix* | MAF-Lich 17126 | Chile | JQ912288 | - | JQ912390 | Australian Clade C |
| *Xanthoparmelia imitatrix* | MAF-Lich 17127 | Chile | JQ912342 | - | JQ912439 | Australian Clade C |
| *Xanthoparmelia imitatrix* | MAF-Lich 17132 | Chile | JQ912344 | - | JQ912441 | Australian Clade C |
| *Xanthoparmelia imitatrix* | MAF-Lich 17155 | South Africa | JQ912352 | - | JQ912449 |  |
| *Xanthoparmelia incrustata* | Elix 31062 (HBG); DNA#1658 | Australia: South Australia | DQ167448 | - | - | Australian Clade B |
| *Xanthoparmelia infrapallida* | Leavitt9904 (BRY-C) | USA | MG695555 | MG695809 | MG695656 | Holarctic Clade |
| *Xanthoparmelia* cf. *iniquita* | Wirth B 60 0198691 | South Africa | **OQ356366** | **OQ366448** | **OQ366509** |  |
| *Xanthoparmelia isidiigera* | Elix 31921 (HBG); DNA#1671 | Australia: Western Australia | DQ167451 | - | - | Australian Clade B |
| *Xanthoparmelia isidiovagans* | MAF 9956 | Spain | AY581094 | AY582330 | AY578960 | Holarctic Clade |
| *Xanthoparmelia joranadae* | Barcenas-Pena 7451 | Mexico: Jalisco | MW553768 | - | MW567174 | Holarctic Clade |
| *Xanthoparmelia karooensis* | Wirth B 60 0198696 | South Africa | **OQ356395** | **-** | **-** |  |
| *Xanthoparmelia karooensis* | Wirth B 60 0198697 | South Africa | **OQ356396** | **-** | **OQ366513** |  |
| *Xanthoparmelia krcmarii* | Wirth B 60 0198680 | South Africa | MH460420 | - | - |  |
| *Xanthoparmelia* aff. *krogiae* | Kirika 4637 (F) | Kenya | MG695502 | MG695750 | - |  |
| *Xanthoparmelia lavicola* | Barcenas Pena, 5857 | Mexico: Puebla | MH580223 | MH699896 | MH699916 | Holarctic Clade |
| *Xanthoparmelia lavicola* | Barcenas Pena, 5884 | Mexico: Puebla | MH580224 | MH699897 | MH699917 | Holarctic Clade |
| *Xanthoparmelia lavicola* | Barcenas Pena, 5888 | Mexico: Puebla | MH580226 | MH699899 | MH699919 | Holarctic Clade |
| *Xanthoparmelia lavicola* | Barcenas Pena, 5905 | Mexico: Oaxaca | MH580225 | MH699898 | MH699918 | Holarctic Clade |
| *Xanthoparmelia lavicola* | BRY 55230 | USA | HM578685 | - | HM579095 | Holarctic Clade |
| *Xanthoparmelia lavicola* | Nash III, 46261 | Mexico: Morelos | MH580227 | - | MH699920 | Holarctic Clade |
| *Xanthoparmelia leonora* | Wirth B 60 0201804 | South Africa | **OQ356355** | **-** | **OQ366518** |  |
| *Xanthoparmelia lineella* | MAF-Lich 17160 | South Africa | JQ912319 | - | JQ912418 |  |
| *Xanthoparmelia lineola* | 55306 (BRY-C) | USA: Arizona | MG695556 | MG695810 | MG695657 | Holarctic Clade |
| *Xanthoparmelia lineola* | Barcenas-Pena, 7008 | Mexico: Estado de Mexico | MW553760 | MW567192 | MW567166 | Holarctic Clade |
| *Xanthoparmelia lineola* | Barcenas-Pena, 7190 | Mexico: Queretaro | MW553774 | MW567202 | MW567179 | Holarctic Clade |
| *Xanthoparmelia lineola* | BRY 55215 | USA | HM578670 | - | HM579080 | Holarctic Clade |
| *Xanthoparmelia lineola* | BRY 55272 | USA | HM578726 | - | HM579137 | Holarctic Clade |
| *Xanthoparmelia lineola* | BRY 55273 | USA | HM578727 | - | HM579138 | Holarctic Clade |
| *Xanthoparmelia lineola* | BRY 55306 | USA | HM578759 | - | HM579171 | Holarctic Clade |
| *Xanthoparmelia lineola* | BRY 55311 | USA | HM578763 | - | HM579175 | Holarctic Clade |
| *Xanthoparmelia lineola* | BRY 55322 | USA | HM578774 | - | HM579186 | Holarctic Clade |
| *Xanthoparmelia lineola* | BRY 55323 | USA | HM578775 | - | HM579187 | Holarctic Clade |
| *Xanthoparmelia lineola* | BRY 55386 | USA | HM578836 | - | HM579248 | Holarctic Clade |
| *Xanthoparmelia lineola* | BRY 55410 | USA | HM578860 | - | HM579272 | Holarctic Clade |
| *Xanthoparmelia lineola* | BRY 55412 | USA | HM578862 | - | HM579274 | Holarctic Clade |
| *Xanthoparmelia lineola* | BRY 55429 | USA | HM578879 | - | HM579290 | Holarctic Clade |
| *Xanthoparmelia lineola* | BRY 55561 | USA | HM579014 | - | HM579420 | Holarctic Clade |
| *Xanthoparmelia lineola* | Ruiz-Cazares, 7570 | Mexico: Estado de Mexico | MW553776 | MW567204 | MW567181 | Holarctic Clade |
| *Xanthoparmelia lipochlorochroa* | BRY 55318 | USA | HM578770 | - | HM579182 | Holarctic Clade |
| *Xanthoparmelia lipochlorochroa* | BRY 55319 | USA | HM578771 | - | HM579183 | Holarctic Clade |
| *Xanthoparmelia lipochlorochroa* | BRY 55320 | USA | HM578772 | - | HM579184 | Holarctic Clade |
| *Xanthoparmelia lithophila* | MAF 6900 | Australia | AY581077 | - | AY578941 | Australian Clade B |
| *Xanthoparmelia lithophiloides* | Elix 30390 (HBG), DNA1253 (HBG, LD) | Australia | AY251437 | - | - | Australian Clade B |
| *Xanthoparmelia lithophiloides* | Elix 46164 (F) | Australia | MG695557 | MG695811 | MG695658 | Australian Clade B |
| *Xanthoparmelia lithophiloides* | MAF 7471 | Australia | AY581078 | AY582314 | AY578942 | Australian Clade B |
| *Xanthoparmelia loxodes* | A. Thell, SK-9611 (LD), DNA#AT38 | Sweden: Skane, Eslov, Abullahagen | AF115764.2 | - | - | Pulla Clade |
| *Xanthoparmelia loxodes* | MAF 6206 | Spain | AY581070 | AY582306 | AY578933 | Pulla Clade |
| *Xanthoparmelia loxodes* | MAF 7072 | Spain | AY581076 | AY582313 | AY578940 | Pulla Clade |
| *Xanthoparmelia loxodes* | O-L-196281 | Norway: Vestfold, Tjome, Hvasser, Krokle | MK811902 | - | - | Pulla Clade |
| *Xanthoparmelia loxodes* | O-L-198317 | Norway: Aust-Agder, Evje og Hornnes, Klepsland | MK811982 | - | - | Pulla Clade |
| *Xanthoparmelia loxodes* | O-L-199990 | Norway: Akershus, Ski, Krakstad church | MK811808 | - | - | Pulla Clade |
| *Xanthoparmelia loxodes* | O-L-206876 | Norway: Ostfold, Hobol, Hobol k., 50 m nordaust for Tomter kirke | MK812427 | - | - | Pulla Clade |
| *Xanthoparmelia loxodes* | O-L-208018 | Norway: Ostfold, Moss, Jeloya, Albystranda | MK812543 | - | - | Pulla Clade |
| *Xanthoparmelia loxodes* | O-L-208343 | Norway: Ostfold, Hvaler, Herfol, northern part | MK812627 | - | - | Pulla Clade |
| *Xanthoparmelia luteonotata* | CANB 746358 | Australia | JQ912293 | - | - | Australian Clade C |
| *Xanthoparmelia luteonotata* | CANB 746366.1 | Australia | JQ912292 | - | JQ912394 | Australian Clade C |
| *Xanthoparmelia luteonotata* | MAF-Lich 17119 | Spain | JQ912340 | - | JQ912437 | Pulla Clade |
| *Xanthoparmelia luteonotata* | MAF-Lich 17120 | Spain | JQ912341 | - | JQ912438 | Pulla Clade |
| *Xanthoparmelia maricopensis* | J. Leavitt 001 (BRY-C) | USA: Arizona | MG695558 | MG695812 | MG695659 | Holarctic Clade |
| *Xanthoparmelia maricopensis* | Leavitt 19102 | USA: Utah | MZ922257 | - | - | Holarctic Clade |
| *Xanthoparmelia marroninipuncta* | Wirth B 60 0201792 | South Africa | **OQ356365** | **OQ366438** | **OQ366514** |  |
| *Xanthoparmelia marroninipuncta* | Wirth B 60 0201793 | South Africa | **OQ356364** | **-** | **OQ366494** |  |
| *Xanthoparmelia* aff. *mexicana* | Leavitt 292 (BRY-C) | USA: Nevada | MG695579 | MG695834 | MG695679 | Holarctic Clade |
| *Xanthoparmelia* cf. *mexicana* | Kahlid, Usman & Khan, MKF16 | Pakistan: Tattu | MH580221 | - | - | Holarctic Clade |
| *Xanthoparmelia* cf. *mexicana* | Khan & Khalid, SW-16 | Pakistan: Swat Valley | MH580222 | - | - | Holarctic Clade |
| *Xanthoparmelia mexicana* | Barcenas Pena, 5918 | Mexico: Oaxaca | MH580228 | MH699900 | MH699921 | Holarctic Clade |
| *Xanthoparmelia mexicana* | Barcenas Pena, 7178 | Mexico: Queretaro | MH686401 | MH699901 | - | Holarctic Clade |
| *Xanthoparmelia mexicana* | Barcenas Pena, 7209 | Mexico: Queretaro | MH686402 | MH699905 | - | Holarctic Clade |
| *Xanthoparmelia mexicana* | Barcenas Pena, 7273 | Mexico: San Luis Potosi | MH686403 | MH699903 | - | Holarctic Clade |
| *Xanthoparmelia mexicana* | Barcenas Pena, 7316 | Mexico: San Luis Potosi | MH580231 | MH699904 | MH699923 | Holarctic Clade |
| *Xanthoparmelia mexicana* | Barcenas Pena, 7441 | Mexico: San Luis Potosi | MH686404 | MH699902 | - | Holarctic Clade |
| *Xanthoparmelia mexicana* | Barcenas Pena, 7470 | Mexico: Hidalgo | MH580232 | MH699906 | - | Holarctic Clade |
| *Xanthoparmelia mexicana* | Barcenas-Pena, 7245 | Mexico: Queretaro | MW553785 | MW567213 | - | Holarctic Clade |
| *Xanthoparmelia mexicana* | Barcenas-Pena, 7291 | Mexico: San Luis Potosi | MW553777 | MW567205 | MW567182 | Holarctic Clade |
| *Xanthoparmelia mexicana* | Barcenas-Pena, 7300 | Mexico: San Luis Potosi | MW553783 | MW567211 | MW567188 | Holarctic Clade |
| *Xanthoparmelia mexicana* | Barcenas-Pena, 7306 | Mexico: San Luis Potosi | MW553782 | MW567210 | MW567187 | Holarctic Clade |
| *Xanthoparmelia mexicana* | Barcenas-Pena, 7408 | Mexico: San Luis Potosi | MH580229 | - | MH699922 | Holarctic Clade |
| *Xanthoparmelia mexicana* | Barcenas-Pena, 7499 | Mexico: Guanajuato | MW553759 | MW567191 | MW567165 | Holarctic Clade |
| *Xanthoparmelia mexicana* | Barcenas-Pena, 7518 | Mexico: Queretaro | MW553775 | MW567203 | MW567180 | Holarctic Clade |
| *Xanthoparmelia mexicana* | BRY 55233 | Mexico | HM578688 | - | - | Holarctic Clade |
| *Xanthoparmelia mexicana* | BRY 55258 | USA | HM578713 | - | HM579123 | Holarctic Clade |
| *Xanthoparmelia mexicana* | BRY 55259 | USA | HM578714 | - | HM579124 | Holarctic Clade |
| *Xanthoparmelia mexicana* | BRY 55260 | USA | HM578715 | - | HM579125 | Holarctic Clade |
| *Xanthoparmelia mexicana* | BRY 55261 | USA | HM578716 | - | HM579126 | Holarctic Clade |
| *Xanthoparmelia mexicana* | BRY 55262 | USA | HM578717 | - | HM579127 | Holarctic Clade |
| *Xanthoparmelia mexicana* | BRY 55263 | USA | HM578718 | - | HM579128 | Holarctic Clade |
| *Xanthoparmelia mexicana* | BRY 55265 | USA | HM578719 | - | HM579130 | Holarctic Clade |
| *Xanthoparmelia mexicana* | BRY 55267 | USA | HM578721 | - | HM579132 | Holarctic Clade |
| *Xanthoparmelia mexicana* | BRY 55285 | USA | HM578738 | - | HM579150 | Holarctic Clade |
| *Xanthoparmelia mexicana* | BRY 55299 | USA | HM578752 | - | HM579164 | Holarctic Clade |
| *Xanthoparmelia mexicana* | BRY 55321 | USA | HM578773 | - | HM579185 | Holarctic Clade |
| *Xanthoparmelia mexicana* | BRY 55328 | USA | HM578780 | - | HM579192 | Holarctic Clade |
| *Xanthoparmelia mexicana* | BRY 55401 | USA | HM578851 | - | HM579263 | Holarctic Clade |
| *Xanthoparmelia mexicana* | BRY 55402 | USA | HM578852 | - | HM579264 | Holarctic Clade |
| *Xanthoparmelia mexicana* | BRY 55426 | USA | HM578876 | - | HM579287 | Holarctic Clade |
| *Xanthoparmelia mexicana* | BRY 55428 | USA | HM578878 | - | HM579289 | Holarctic Clade |
| *Xanthoparmelia mexicana* | BRY 55442 | USA | HM578894 | - | HM579303 | Holarctic Clade |
| *Xanthoparmelia mexicana* | BRY 55450 | USA | HM578902 | - | HM579310 | Holarctic Clade |
| *Xanthoparmelia mexicana* | BRY 55462 | USA | HM578914 | - | HM579322 | Holarctic Clade |
| *Xanthoparmelia mexicana* | BRY 55503 | USA | HM578955 | - | HM579362 | Holarctic Clade |
| *Xanthoparmelia mexicana* | BRY 55505 | USA | HM578957 | - | HM579364 | Holarctic Clade |
| *Xanthoparmelia mexicana* | BRY 55519 | USA | HM578972 | - | HM579379 | Holarctic Clade |
| *Xanthoparmelia mexicana* | BRY 55538 | USA | HM578991 | - | HM579397 | Holarctic Clade |
| *Xanthoparmelia mexicana* | BRY 55562 | USA | HM579015 | - | HM579421 | Holarctic Clade |
| *Xanthoparmelia mexicana* | BRY 55563 | USA | HM579016 | - | HM579422 | Holarctic Clade |
| *Xanthoparmelia mexicana* | KoLRI005486 | South Korea | KM250123 | - | KM250123 | Holarctic Clade |
| *Xanthoparmelia mexicana* | MAF-Lich 17181 | Spain | JQ912354 | - | JQ912451 | Holarctic Clade |
| *Xanthoparmelia mexicana* | MAF-Lich 17199 | USA | JQ912386 | - | JQ912479 | Holarctic Clade |
| *Xanthoparmelia mexicana* | Nash III, 45126 | Mexico: Hidalgo | MH580230 | - | - | Holarctic Clade |
| *Xanthoparmelia microcephala* | Elix 46167 (F) | Australia | MG695559 | MG695813 | MG695660 | Australian Clade B |
| *Xanthoparmelia moctezumensis* | Barcenas Pena, 5891 | Mexico: Puebla | MH580233 | MH699907 | MH699924 | Holarctic Clade |
| *Xanthoparmelia molliuscula* | Wirth B 60 0198687 | South Africa | **OQ356360** | **OQ366453** | **OQ366506** |  |
| *Xanthoparmelia molliuscula* | Wirth B 60 0201795 | South Africa | **OQ356359** | **-** | **OQ366507** |  |
| *Xanthoparmelia molliuscula* | Wirth B 60 0201796 | South Africa | **OQ356358** | **-** | **-** |  |
| *Xanthoparmelia molliuscula* | Wirth B 60 0201811 | South Africa | **OQ356356** | **-** | **OQ366474** |  |
| *Xanthoparmelia molliuscula* | Wirth B 60 0201797 | South Africa | **OQ356357** | **OQ366435** | **OQ366475** |  |
| *Xanthoparmelia mougeotii* | BRY 55569 | USA | HM578964 | - | HM579371 |  |
| *Xanthoparmelia mougeotii* | MAF 6802 | Spain | AY037006 | AY582335 | AY578966 |  |
| *Xanthoparmelia mougeotii* | MAF 9916 | Spain | AY581100 | AY582336 | AY578967 |  |
| *Xanthoparmelia mougeotina* | Elix 46157 (F) | Australia | MG695560 | MG695814 | MG695661 |  |
| *Xanthoparmelia murina* | Elix 30408 (HBG), DNA1254 (HBG, LD) | Australia | AY251438 | - | - | Australian Clade B |
| *Xanthoparmelia murina* | MAF 9915 | Australia | AY581079 | AY582315 | AY578943 | Australian Clade B |
| *Xanthoparmelia neochlorochroa* | BRY 55303 | USA | HM578756 | - | HM579168 | Holarctic Clade |
| *Xanthoparmelia neochlorochroa* | BRY 55316 | USA | HM578768 | - | HM579180 | Holarctic Clade |
| *Xanthoparmelia neochlorochroa* | BRY 55317 | USA | HM578769 | - | HM579181 | Holarctic Clade |
| *Xanthoparmelia neochlorochroa* | BRY 55333 | USA | HM578784 | - | HM579197 | Holarctic Clade |
| *Xanthoparmelia neochlorochroa* | BRY 55334 | USA | HM578785 | - | HM579198 | Holarctic Clade |
| *Xanthoparmelia neochlorochroa* | BRY 55335 | USA | HM578786 | - | HM579199 | Holarctic Clade |
| *Xanthoparmelia neochlorochroa* | BRY 55366 | USA | HM578817 | - | HM579228 | Holarctic Clade |
| *Xanthoparmelia neoquintaria* | MAF-Lich 17194 | South Africa | JQ912382 | MG695815 | JQ912475 |  |
| *Xanthoparmelia neorimalis* | J. A. Elix 28857 (LD-1003352); DNA AT1933 (LD) | Australia: Western Australia | EF591818 | - | - | Australian Clade B |
| *Xanthoparmelia neorimalis* | J. A. Elix 28857 (LD-1099993); DNA AT1936 (LD) | Australia: Western Australia | EF591821 | - | - | Australian Clade B |
| *Xanthoparmelia neotaractica* | Barcenas-Pena, 7007 | Mexico: Estado de Mexico | MW553764 | MW567195 | MW567170 | Holarctic Clade |
| *Xanthoparmelia neotaractica* | Barcenas-Pena, 7013 | Mexico: Estado de Mexico | MW553784 | MW567212 | - | Holarctic Clade |
| *Xanthoparmelia neotinctina* | Elix 31907 (HBG); DNA#1661 | Australia: Western Australia | DQ167460 | - | - | Australian Clade B |
| *Xanthoparmelia neotumidosa* | MAF-LICH 16442 | South Africa | HM125757 | HM125736 | HM125782 |  |
| *Xanthoparmelia neowyomingica* | BRY 55194 | USA | HM578650 | - | HM579062 | Holarctic Clade |
| *Xanthoparmelia neowyomingica* | BRY 55242 | USA | HM578697 | - | HM579107 | Holarctic Clade |
| *Xanthoparmelia neowyomingica* | BRY 55243 | USA | HM578698 | - | HM579108 | Holarctic Clade |
| *Xanthoparmelia neowyomingica* | BRY 55244 | USA | HM578699 | - | HM579109 | Holarctic Clade |
| *Xanthoparmelia neowyomingica* | BRY 55245 | USA | HM578700 | - | HM579110 | Holarctic Clade |
| *Xanthoparmelia neowyomingica* | BRY 55246 | USA | HM578701 | - | HM579111 | Holarctic Clade |
| *Xanthoparmelia neowyomingica* | BRY 55407 | USA | HM578857 | - | HM579269 | Holarctic Clade |
| *Xanthoparmelia nimisii* | Wirth B 60 0198683 | South Africa | **OQ356389** | **OQ366463** | **-** |  |
| *Xanthoparmelia norcapnodes* | MAF 7532 | Australia | AY581080 | AY582316 | AY578944 | Australian Clade B |
| *Xanthoparmelia norchlorochroa* | BRY 55157 | USA | HM578613 | - | HM579025 | Holarctic Clade |
| *Xanthoparmelia norchlorochroa* | BRY 55163 | USA | HM578619 | - | HM579031 | Holarctic Clade |
| *Xanthoparmelia norchlorochroa* | BRY 55365 | USA | HM578816 | - | HM579227 | Holarctic Clade |
| *Xanthoparmelia norchlorochroa* | BRY 55367 | USA | HM578818 | - | HM579229 | Holarctic Clade |
| *Xanthoparmelia norchlorochroa* | BRY 55368 | USA | HM578819 | - | HM579230 | Holarctic Clade |
| *Xanthoparmelia norchlorochroa* | BRY 55369 | USA | HM578820 | - | HM579231 | Holarctic Clade |
| *Xanthoparmelia norchlorochroa* | BRY 55370 | USA | HM578821 | - | HM579232 | Holarctic Clade |
| *Xanthoparmelia norchlorochroa* | BRY 55447 | USA | HM578899 | - | HM579307 | Holarctic Clade |
| *Xanthoparmelia norchlorochroa* | BRY 55464 | USA | HM578916 | - | HM579324 | Holarctic Clade |
| *Xanthoparmelia notata* | Elix 42648 (CANB) | Australia | AY581101 | AY582337 | AY578968 |  |
| *Xanthoparmelia orientalis* | 5613 | South Korea | KJ170884 | - | KJ170884 | Holarctic Clade |
| *Xanthoparmelia orientalis* | KoLRI005477 | South Korea | KM250126 | - | KM250126 | Holarctic Clade |
| *Xanthoparmelia orientalis* | KoLRI005562 | South Korea | KM250136 | - | KM250136 | Holarctic Clade |
| *Xanthoparmelia orientalis* | KoLRI005613 | South Korea | KM250125 | - | KM250125 | Holarctic Clade |
| *Xanthoparmelia parvoclystoides* | Elix 46162 (F) | Australia | MG695561 | MG695816 | MG695662 | Australian Clade B |
| *Xanthoparmelia pedregalensis* | Ruiz Cazares, 1552 | Mexico: Mexico City | MH580238 | MH699912 | MH699929 | Holarctic Clade |
| *Xanthoparmelia pedregalensis* | Ruiz Cazares, 1553 | Mexico: Mexico City | MH580234 | MH699908 | MH699925 | Holarctic Clade |
| *Xanthoparmelia pedregalensis* | Ruiz Cazares, 1555 | Mexico: Mexico City | MH580235 | MH699909 | MH699926 | Holarctic Clade |
| *Xanthoparmelia pedregalensis* | Ruiz Cazares, 1557 | Mexico: Mexico City | MH580236 | MH699910 | MH699927 | Holarctic Clade |
| *Xanthoparmelia pedregalensis* | Ruiz Cazares, 1559 | Mexico: Mexico City | MH580237 | MH699911 | MH699928 | Holarctic Clade |
| *Xanthoparmelia pedregalensis* | Ruiz-Cazares, 1556 | Mexico: Mexico City | MW553757 | MW567189 | MW567163 | Holarctic Clade |
| *Xanthoparmelia peltata* | Lumbsch et al 11036a (UPS) | Argentina | DQ980021 | DQ923643 | DQ923670 |  |
| *Xanthoparmelia perezdepazii* | TFC-Lich 6589 | Spain: Tenerife, Canary Islands | JQ912355 | - | - |  |
| *Xanthoparmelia perfissa* | MAF-Lich 16221 | South Africa | GU992336 | - | - |  |
| *Xanthoparmelia perplexa* | Wirth B 60 0201754 | South Africa | **OQ356371** | **OQ366450** | **-** |  |
| *Xanthoparmelia perplexa* | Wirth B 60 0201802 | South Africa | **OQ356373** | **OQ366456** | **-** |  |
| *Xanthoparmelia perrugata* | MAF-Lich 17118 | Spain | JQ912324 | - | - | Pulla Clade |
| *Xanthoparmelia* aff. *perspersa* | MAF-Lich 15528 | South Africa | GU992328 | HM125718 | HM125762 |  |
| *Xanthoparmelia* aff. *perspersa* | MAF-Lich 15538 | South Africa | GU903339 | - | GU903348 |  |
| *Xanthoparmelia* aff. *perspersa* | MAF-Lich 15541 | South Africa | GU992333 | HM125734 | HM125778 |  |
| *Xanthoparmelia* aff. *perspersa* | MAF-Lich 15542 | South Africa | GU992329 | GU903329 | HM125769 |  |
| *Xanthoparmelia* aff. *perspersa* | MAF-Lich 15543 | South Africa | GU903338 | GU903328 | GU903347 |  |
| *Xanthoparmelia* aff. *perspersa* | MAF-Lich 16211 | South Africa | GU992338 | - | - |  |
| *Xanthoparmelia* aff. *perspersa* | MAF-Lich 16214 | South Africa | GU992339 | - | - |  |
| *Xanthoparmelia* aff. *perspersa* | MAF-Lich 16222-1 | South Africa | GU992330 | HM125728 | HM125772 |  |
| *Xanthoparmelia* aff. *perspersa* | MAF-Lich 16222-2 | South Africa | GU992335 | - | - |  |
| *Xanthoparmelia* aff. *perspersa* | MAF-LICH 16448 | South Africa | HM125758 | HM125737 | HM125783 |  |
| *Xanthoparmelia* aff. *perspersa* | Wirth B 60 0198690 | South Africa | **OQ356390** | **OQ366461** | **OQ366488** |  |
| *Xanthoparmelia perspersa* | MAF-Lich 15539 | South Africa | GU992332 | HM125732 | HM125776 |  |
| *Xanthoparmelia perspersa* | MAF-Lich 16215 | South Africa | GU992337 | - | - |  |
| *Xanthoparmelia pertinax* | Elix 39589 (HBG); DNA#1657 | Australia: Australian Capital Territory | DQ167462 | - | - | Australian Clade B |
| *Xanthoparmelia phaeophana* | Wirth B 60 0201785 | South Africa | **OQ356409** | **OQ366436** | **OQ366498** |  |
| *Xanthoparmelia phaeophana* | Wirth B 60 0201786 | South Africa | **OQ356410** | **OQ366459** | **-** |  |
| *Xanthoparmelia planilobata* | Ruiz-Cazares, 7566 | Mexico: Estado de Mexico | MW553767 | - | MW567173 | Holarctic Clade |
| *Xanthoparmelia* aff. *plittii* | Kirika 2442illumina (F) | Kenya | MG695508 | MG695756 | MG695608 |  |
| *Xanthoparmelia* aff. *plittii* | Kirika 2442sanger (F) | Kenya | MG695509 | MG695757 | MG695609 |  |
| *Xanthoparmelia* aff. *plittii* | Kirika 3820illumina (F) | Kenya | MG695504 | MG695752 | MG695604 |  |
| *Xanthoparmelia* aff. *plittii* | Kirika 3820sanger (F) | Kenya | MG695505 | MG695753 | MG695605 |  |
| *Xanthoparmelia* aff. *plittii* | Kirika 3876illumina (F) | Kenya | MG695506 | MG695754 | MG695606 |  |
| *Xanthoparmelia* aff. *plittii* | Kirika 3876sanger (F) | Kenya | MG695507 | MG695755 | MG695607 |  |
| *Xanthoparmelia* aff. *plittii* | Kirika 4859 (F) | Kenya | MG695503 | MG695751 | MG695603 |  |
| *Xanthoparmelia plittii* | 55422 (BRY-C) | USA: North Carolina | MG695562 | - | MG695664 | Holarctic Clade |
| *Xanthoparmelia plittii* | BRY 55266 | USA | HM578720 | - | HM579131 | Holarctic Clade |
| *Xanthoparmelia plittii* | BRY 55324 | USA | HM578776 | - | HM579188 | Holarctic Clade |
| *Xanthoparmelia plittii* | BRY 55397 | USA | HM578847 | - | HM579259 | Holarctic Clade |
| *Xanthoparmelia plittii* | BRY 55411 | USA | HM578861 | - | HM579273 | Holarctic Clade |
| *Xanthoparmelia plittii* | BRY 55418 | USA | HM578868 | - | HM579279 | Holarctic Clade |
| *Xanthoparmelia plittii* | BRY 55419 | USA | HM578869 | - | HM579280 | Holarctic Clade |
| *Xanthoparmelia plittii* | BRY 55420 | USA | HM578870 | - | HM579281 | Holarctic Clade |
| *Xanthoparmelia plittii* | BRY 55421 | USA | HM578871 | - | HM579282 | Holarctic Clade |
| *Xanthoparmelia plittii* | BRY 55422 | USA | HM578872 | - | HM579283 | Holarctic Clade |
| *Xanthoparmelia plittii* | BRY 55423 | USA | HM578873 | - | HM579284 | Holarctic Clade |
| *Xanthoparmelia plittii* | BRY 55515 | USA | HM578968 | - | HM579375 | Holarctic Clade |
| *Xanthoparmelia plittii* | BRY 55522 | USA | HM578975 | - | HM579382 | Holarctic Clade |
| *Xanthoparmelia plittii* | BRY 55549 | USA | HM579002 | - | HM579408 | Holarctic Clade |
| *Xanthoparmelia pokornyi* | MAF 6052 | Spain | AY037005 | AY582307 | AY578934 | Pulla Clade |
| *Xanthoparmelia pokornyi* | MAF 9908 | Spain | AY581075 | AY582312 | AY578939 | Pulla Clade |
| *Xanthoparmelia pokornyi* | MAF-Lich 17136 | Turkey | JQ912304 | - | JQ912405 | Pulla Clade |
| *Xanthoparmelia pokornyi* | MAF-Lich 17140 | Turkey | JQ912310 | - | JQ912411 | Pulla Clade |
| *Xanthoparmelia pokornyi* | MAF-Lich 17142 | Turkey | JQ912312 | - | JQ912413 | Pulla Clade |
| *Xanthoparmelia pokornyi* | MAF-Lich 17143 | Turkey | JQ912313 | - | JQ912414 | Pulla Clade |
| *Xanthoparmelia prodomokosii* | Wirth B 60 0201790 | South Africa | **OQ356399** | **OQ366467** | **OQ366511** |  |
| *Xanthoparmelia prodomokosii* | Wirth B 60 0201791 | South Africa | **OQ356401** | **OQ366447** | **OQ366481** |  |
| *Xanthoparmelia prodomokosii* | Wirth B 60 0201803 | South Africa | **OQ356400** | **-** | **OQ366512** |  |
| *Xanthoparmelia prolata* | Wirth B 60 0201762 | South Africa | **OQ356388** | **OQ366464** | **OQ366486** |  |
| *Xanthoparmelia protomatrae* | 20175556 | China | MK629940 | - | - | Holarctic Clade |
| *Xanthoparmelia protomatrae* | 20175574 | China | MK629938 | - | - | Holarctic Clade |
| *Xanthoparmelia protomatrae* | 20180103 | China | MK629943 | - | - | Holarctic Clade |
| *Xanthoparmelia protomatrae* | MAF 6216 | Spain | AY581104 | AY582339 | AY578972 | Holarctic Clade |
| *Xanthoparmelia protomatrae* | MAF-Lich 17182 | Spain | JQ912376 | - | JQ912469 | Holarctic Clade |
| *Xanthoparmelia protomatrae* | O-L-201574 | Norway: Aust-Agder, Tvedestrand, Engholmen | MK812594 | - | - | Holarctic Clade |
| *Xanthoparmelia pseudochalybaeizans* | Wirth B 60 0201772 | South Africa | **OQ356404** | **OQ366443** | **-** |  |
| *Xanthoparmelia pseudochalybaeizans* | Wirth B 60 0201774 | South Africa | **OQ356403** | **OQ366445** | **-** |  |
| *Xanthoparmelia pseudochalybaeizans* | Wirth B 60 0201783 | South Africa | **OQ356405** | **OQ366468** | **OQ366517** |  |
| *Xanthoparmelia pseudocongensis* | Kirika 3285illumina (F) | Kenya | MG695563 | MG695818 | MG695665 |  |
| *Xanthoparmelia pseudocongensis* | Kirika 3285sanger (F) | Kenya | MG695564 | MG695819 | MG695666 |  |
| *Xanthoparmelia pseudoglabrans* | MAF-Lich 17161 | South Africa | JQ912316 | - | JQ912416 |  |
| *Xanthoparmelia psoromica* | Wirth B 60 0198693 | South Africa | **OQ356381** | **OQ366452** | **OQ366504** |  |
| *Xanthoparmelia psoromifera* | BRY 55313 | USA | HM578765 | - | HM579177 | Holarctic Clade |
| *Xanthoparmelia psoromifera* | BRY 55314 | USA | HM578766 | - | HM579178 | Holarctic Clade |
| *Xanthoparmelia pulla* | CANB 739130.1 | Australia | JQ912294 | - | JQ912395 | Australian Clade C |
| *Xanthoparmelia pulla* | CBG 9810185 | Australia | JQ912295 | - | JQ912396 | Australian Clade C |
| *Xanthoparmelia pulla* | MAF 6794 | Spain | AY581071 | - | - | Pulla Clade |
| *Xanthoparmelia pulla* | O-L-196012 | Norway: Sor-Trondelag, Orland, Krakvag, Krakoya | MK812429 | - | - | Pulla Clade |
| *Xanthoparmelia pulla* | O-L-208019 | Norway: Ostfold, Moss, Jeloya, Albystranda | MK812706 | - | - | Pulla Clade |
| *Xanthoparmelia pulla* | O-L-208344 | Norway: Ostfold, Hvaler, Herfol, northern part | MK812285 | - | - | Pulla Clade |
| *Xanthoparmelia pulla* | SP11/14E (MAF-Lich) | Spain | MG695565 | MG695821 | MG695667 | Pulla Clade |
| *Xanthoparmelia pulloides* | MAF-Lich 17121 | Spain | JQ912347 | - | JQ912444 | Pulla Clade |
| *Xanthoparmelia pulloides* | MAF6784 | Spain: Zamora | AY037004 | - | - | Pulla Clade |
| *Xanthoparmelia quintarioides* | MAF-Lich 17159 | South Africa | JQ912318 | - | JQ912417 |  |
| *Xanthoparmelia ralla* | Wirth B 60 0198820 | South Africa | **OQ356362** | **-** | **-** |  |
| *Xanthoparmelia ralla* | Wirth B 60 0201813 | South Africa | **OQ356363** | **OQ366449** | **OQ366495** |  |
| *Xanthoparmelia ralla* | MAF-Lich 15529 | South Africa | GU903337 | GU903327 | GU903346 |  |
| *Xanthoparmelia ralla* | MAF-Lich 15537 | South Africa | GU903335 | GU903326 | GU903344 |  |
| *Xanthoparmelia reptans* | Elix 42635 (CANB) | Australia | AY581102 | - | AY578969 | Australian Clade A |
| *Xanthoparmelia rimalis* | J. A. Elix 31575 (LD-1099929); DNA AT1935 (LD) | Australia: Australian Capital Territory | EF591820 | - | - | Australian Clade B |
| *Xanthoparmelia ryssolea* | MAF-Lich 17116 | Spain | JQ912322 | - | - | Pulla Clade |
| *Xanthoparmelia ryssolea* | MAF-Lich 17138 | Turkey | JQ912309 | - | JQ912410 | Pulla Clade |
| *Xanthoparmelia ryssolea* | MAF-Lich 17141 | Turkey | JQ912311 | - | JQ912412 | Pulla Clade |
| *Xanthoparmelia salkiboensis* | Kirika 4371illumina (F) | Kenya | MG695567 | MG695823 | MG695669 |  |
| *Xanthoparmelia salkiboensis* | Kirika 4371sanger (F) | Kenya | MG695568 | MG695824 | MG695670 |  |
| *Xanthoparmelia salkiboensis* | Kirika 4372 (F) | Kenya | MG695566 | MG695822 | MG695668 |  |
| *Xanthoparmelia saxeti* | 13317 | South Korea | KJ170867 | - | KJ170867 |  |
| *Xanthoparmelia saxeti* | 13467 | South Korea | KJ170868 | - | KJ170868 |  |
| *Xanthoparmelia saxeti* | 13706 | South Korea | KJ170872 | - | KJ170872 |  |
| *Xanthoparmelia saxeti* | 110253 | South Korea | MG695575 | - | MG695676 |  |
| *Xanthoparmelia saxeti* | Aptroot 53350 (ABL) | Taiwan | AY581063 | AY582299 | AY578926 |  |
| *Xanthoparmelia saxeti* | Kirika 3815 (F) | Kenya | MG695573 | MG695831 | MG695675 |  |
| *Xanthoparmelia saxeti* | Kirika 3817a (F) | Kenya | MG695572 | MG695830 | MG695674 |  |
| *Xanthoparmelia saxeti* | Kirika 3817illumina (F) | Kenya | MG695570 | MG695828 | MG695672 |  |
| *Xanthoparmelia saxeti* | Kirika 3817sanger (F) | Kenya | MG695571 | MG695829 | MG695673 |  |
| *Xanthoparmelia saxeti* | Kirika 4854 (F) | Kenya | MG695569 | MG695825 | - |  |
| *Xanthoparmelia saxeti* | KoLRI001330 | South Korea | KM250144 | - | KM250144 |  |
| *Xanthoparmelia saxeti* | KoLRI011065 | South Korea | KM250141 | - | KM250141 |  |
| *Xanthoparmelia saxeti* | Leavitt 538 (BRY-C) | Uruguay | MG695577 | MG695832 | MG695677 |  |
| *Xanthoparmelia saxeti* | Leavitt 540 (BRY-C) | Uruguay | MG695578 | MG695833 | MG695678 |  |
| *Xanthoparmelia saxeti* | MAF-LICH 16224 | India | HM125739 | HM125716 | HM125760 |  |
| *Xanthoparmelia schenckiana* | Wirth B 60 0198694 | South Africa | **OQ356379** | **OQ366451** | **OQ366501** |  |
| *Xanthoparmelia scitula* | MAF-Lich 15535 | South Africa | GU903334 | GU903324 | GU903343 |  |
| *Xanthoparmelia scitula* | MAF-Lich 15536 | South Africa | GU903333 | GU903325 | GU903342 |  |
| *Xanthoparmelia scotophylla* | Elix 30340 (HBG), DNA1256 (HBG, LD) | Australia | AY251439 | - | - | Australian Clade B |
| *Xanthoparmelia scotophylla* | Elix 30650 (CANB) | Australia | AY581081 | AY582317 | AY578945 | Australian Clade B |
| *Xanthoparmelia semiviridis* | MAF 6876 | Australia | AY581058 | - | AY578921 | Australian Clade A |
| *Xanthoparmelia semiviridis* | P. J. de Lange 12989 (F) | New Zealand: South Island | MG695580 | MG695837 | MG695680 | Australian Clade A |
| *Xanthoparmelia sigillata* | MAF-Lich 17183 | South Africa | JQ912359 | MG695838 | JQ912454 |  |
| *Xanthoparmelia sipmaniana* | Wirth B 60 0198688 | South Africa | **OQ356383** | **-** | **OQ366502** |  |
| *Xanthoparmelia sipmaniana* | MAF-Lich 17193 | South Africa | JQ912380 | - | JQ912473 |  |
| *Xanthoparmelia* sp. | 5398 | South Korea | KJ170889 | - | KJ170889 | Holarctic Clade |
| *Xanthoparmelia* sp. | 20900a | Australia | MT094747 | MT093681 | MT093267 | Australian Clade C |
| *Xanthoparmelia* sp. | 20901a | Australia | MT094748 | - | MT093268 | Australian Clade B |
| *Xanthoparmelia* sp. | 20901c | Australia | MT094749 | - | MT093269 | Australian Clade A |
| *Xanthoparmelia* sp. | 20901e | Australia | MT094750 | - | - | Australian Clade B |
| *Xanthoparmelia* sp. | 20901g | Australia | MT094751 | - | MT093270 | Australian Clade B |
| *Xanthoparmelia* sp. | 20904b sp1 | Australia | MT094752 | - | - | Australian Clade B |
| *Xanthoparmelia* sp. | 20905a | Australia | MT094753 | MT093682 | MT093271 | Australian Clade C |
| *Xanthoparmelia* sp. | 20905e | Australia | MT094754 | - | - | Australian Clade B |
| *Xanthoparmelia* sp. | 20906d D1 | Australia | MT094757 | - | - | Australian Clade B |
| *Xanthoparmelia* sp. | 20906d D2 | Australia | MT094758 | - | MT093274 | Australian Clade B |
| *Xanthoparmelia* sp. | 20906d | Australia | MT094756 | - | MT093273 |  |
| *Xanthoparmelia* sp. | 20907a D1 | Australia | MT094760 | - | - | Australian Clade A |
| *Xanthoparmelia* sp. | 20907a D2 | Australia | MT094761 | - | - | Australian Clade A |
| *Xanthoparmelia* sp. | 20907a D4 | Australia | MT094762 | MT093685 | MT093276 | Australian Clade A |
| *Xanthoparmelia* sp. | 20907a D5 | Australia | MT094763 | MT093686 | MT093277 | Australian Clade A |
| *Xanthoparmelia* sp. | 20907a | Australia | MT094759 | MT093684 | MT093275 | Australian Clade A |
| *Xanthoparmelia* sp. | 20907e | Australia | MT094764 | - | - | Australian Clade B |
| *Xanthoparmelia* sp. | 20908a | Australia | MT094765 | MT093687 | MT093278 | Australian Clade A |
| *Xanthoparmelia* sp. | 20908d | Australia | MT094766 | MT093688 | MT093279 | Australian Clade B |
| *Xanthoparmelia* sp. | 20909a | Australia | MT094767 | - | MT093280 | Australian Clade B |
| *Xanthoparmelia* sp. | 20911f | Australia | MT094768 | - | - | Australian Clade A |
| *Xanthoparmelia* sp. | 20913a | Australia | MT094769 | MT093689 | - | Australian Clade A |
| *Xanthoparmelia* sp. | 20913b | Australia | MT094770 | MT093690 | MT093281 | Australian Clade B |
| *Xanthoparmelia* sp. | 20914a | Australia | MT094771 | MT093691 | MT093282 |  |
| *Xanthoparmelia* sp. | 20914b | Australia | MT094772 | MT093692 | MT093283 | Australian Clade B |
| *Xanthoparmelia* sp. | 20914c | Australia | MT094773 | MT093693 | - |  |
| *Xanthoparmelia* sp. | 20914f | Australia | MT094774 | - | MT093284 | Australian Clade B |
| *Xanthoparmelia* sp. | 20914g | Australia | MT094775 | MT093694 | MT093285 |  |
| *Xanthoparmelia* sp. | 20914h | Australia | MT094776 | - | MT093286 | Australian Clade B |
| *Xanthoparmelia* sp. | 20915b | Australia | MT094777 | MT093695 | MT093287 | Australian Clade B |
| *Xanthoparmelia* sp. | 20915d | Australia | MT094778 | MT093696 | MT093288 | Australian Clade C |
| *Xanthoparmelia* sp. | 20915e | Australia | MT094779 | MT093697 | MT093289 | Australian Clade B |
| *Xanthoparmelia* sp. | 20915j | Australia | MT094780 | MT093698 | MT093290 | Australian Clade B |
| *Xanthoparmelia* sp. | 20917d D3 | Australia | MT094783 | - | MT093293 | Australian Clade B |
| *Xanthoparmelia* sp. | 20917d | Australia | MT094782 | MT093700 | MT093292 | Australian Clade B |
| *Xanthoparmelia* sp. | 20917f | Australia | MT094785 | - | MT093295 | Australian Clade B |
| *Xanthoparmelia* sp. | 20919a D1 | Australia | MT094787 | MT093703 | MT093297 | Australian Clade B |
| *Xanthoparmelia* sp. | 20919a D2 | Australia | MT094788 | - | - | Australian Clade B |
| *Xanthoparmelia* sp. | 20919a D3 | Australia | MT094789 | - | MT093298 | Australian Clade B |
| *Xanthoparmelia* sp. | 20919a | Australia | MT094786 | MT093702 | MT093296 | Australian Clade B |
| *Xanthoparmelia* sp. | 20919c | Australia | MT094790 | MT093704 | MT093299 | Australian Clade B |
| *Xanthoparmelia* sp. | 20922b sp1 | Australia | MT094791 | MT093705 | MT093300 | Australian Clade C |
| *Xanthoparmelia* sp. | 20922d | Australia | MT094793 | - | - | Australian Clade B |
| *Xanthoparmelia* sp. | 20922e | Australia | MT094794 | - | MT093302 | Australian Clade B |
| *Xanthoparmelia* sp. | 20922i | Australia | MT094797 | - | MT093305 | Australian Clade B |
| *Xanthoparmelia* sp. | 20924a | Australia | MT094798 | - | - | Australian Clade D |
| *Xanthoparmelia* sp. | 20924b sp1 | Australia | MT094799 | MT093708 | MT093306 | Australian Clade D |
| *Xanthoparmelia* sp. | 20924b sp3 | Australia | MT094800 | - | - | Australian Clade D |
| *Xanthoparmelia* sp. | 20924c sp2 | Australia | MT094801 | - | - | Australian Clade B |
| *Xanthoparmelia* sp. | 20924c sp3 | Australia | MT094802 | - | - | Australian Clade B |
| *Xanthoparmelia* sp. | 20924e sp1 | Australia | MT094804 | MT093710 | MT093308 | Australian Clade D |
| *Xanthoparmelia* sp. | 20924e sp2 | Australia | MT094805 | MT093711 | MT093309 | Australian Clade C |
| *Xanthoparmelia* sp. | 20924f D5 | Australia | MT094806 | MT093712 | MT093310 |  |
| *Xanthoparmelia* sp. | 20925a | Australia | MT094807 | - | - | Australian Clade B |
| *Xanthoparmelia* sp. | 20927a | Australia | MT094808 | MT093713 | MT093311 | Australian Clade B |
| *Xanthoparmelia* sp. | 20927b | Australia | MT094809 | MT093714 | MT093312 | Australian Clade D |
| *Xanthoparmelia* sp. | 20927d sp2 | Australia | MT094811 | - | - | Australian Clade B |
| *Xanthoparmelia* sp. | 20927d | Australia | MT094810 | - | MT093313 | Australian Clade D |
| *Xanthoparmelia* sp. | 20927e | Australia | MT094812 | - | MT093314 | Australian Clade B |
| *Xanthoparmelia* sp. | 20927g | Australia | MT094814 | MT093715 | MT093316 | Australian Clade D |
| *Xanthoparmelia* sp. | 20927i | Australia | MT094815 | - | MT093317 | Australian Clade B |
| *Xanthoparmelia* sp. | 20929b | Australia | MT094816 | - | MT093318 | Australian Clade B |
| *Xanthoparmelia* sp. | 20929c | Australia | MT094817 | - | - | Australian Clade B |
| *Xanthoparmelia* sp. | 20929e | Australia | MT094819 | - | MT093320 | Australian Clade B |
| *Xanthoparmelia* sp. | 20929f | Australia | MT094820 | MT093716 | MT093321 | Australian Clade B |
| *Xanthoparmelia* sp. | 20930a | Australia | MT094821 | MT093717 | MT093322 | Australian Clade B |
| *Xanthoparmelia* sp. | 20933e D1 | Australia | MT094823 | - | MT093323 | Australian Clade B |
| *Xanthoparmelia* sp. | 20933e D2 | Australia | MT094824 | MT093719 | - | Australian Clade B |
| *Xanthoparmelia* sp. | 20933e | Australia | MT094822 | - | - | Australian Clade B |
| *Xanthoparmelia* sp. | 20934b | Australia | MT094825 | - | MT093324 | Australian Clade B |
| *Xanthoparmelia* sp. | 20934c | Australia | MT094826 | - | MT093325 | Australian Clade B |
| *Xanthoparmelia* sp. | 20934e | Australia | MT094828 | - | MT093327 | Australian Clade B |
| *Xanthoparmelia* sp. | 20934g | Australia | MT094829 | MT093721 | MT093328 | Australian Clade B |
| *Xanthoparmelia* sp. | 20934h | Australia | MT094830 | - | MT093329 | Australian Clade B |
| *Xanthoparmelia* sp. | 20934i | Australia | MT094831 | MT093722 | MT093330 | Australian Clade B |
| *Xanthoparmelia* sp. | 20934j | Australia | MT094832 | - | - | Australian Clade B |
| *Xanthoparmelia* sp. | 20934k | Australia | MT094833 | - | MT093331 | Australian Clade B |
| *Xanthoparmelia* sp. | 5238 | Kenya | MT094837 | MT093725 | MT093334 |  |
| *Xanthoparmelia* sp. | 5240 | Kenya | MT094838 | MT093726 | - |  |
| *Xanthoparmelia* sp. | J46197 | Australia | MT094839 | - | MT093335 | Australian Clade B |
| *Xanthoparmelia* sp. | J46201 | Australia | MT094840 | - | - | Australian Clade B |
| *Xanthoparmelia* sp. | J46203 | Australia | MT094841 | - | - | Australian Clade B |
| *Xanthoparmelia* sp. | J46204 | Australia | MT094842 | - | - |  |
| *Xanthoparmelia* sp. | J46205 | Australia | MT094843 | MT093727 | - | Australian Clade B |
| *Xanthoparmelia* sp. | J46206 | Australia | MT094844 | - | MT093336 | Australian Clade B |
| *Xanthoparmelia* sp. | J46207 | Australia | MT094845 | MT093728 | MT093337 | Australian Clade B |
| *Xanthoparmelia* sp. | J46210 | Australia | MT094846 | - | MT093338 |  |
| *Xanthoparmelia* sp. | J46213 | Australia | MT094847 | - | - | Australian Clade B |
| *Xanthoparmelia* sp. | J46230 | Australia | MT094848 | - | - | Australian Clade B |
| *Xanthoparmelia* sp. | MAF-Lich 17125 | Chile | JQ912346 | MG695841 | JQ912443 |  |
| *Xanthoparmelia* sp. | MAF-Lich 17164 | South Africa | JQ912339 | - | JQ912436 |  |
| *Xanthoparmelia* sp. | MAF-Lich 17166 | South Africa | JQ912330 | - | JQ912426 |  |
| *Xanthoparmelia* sp. | MAF-Lich 17167 | South Africa | JQ912331 | - | JQ912427 |  |
| *Xanthoparmelia* sp. | MAF-Lich 17169 | Kenya | JQ912361 | - | JQ912456 |  |
| *Xanthoparmelia* sp. | MAF-Lich 17171 | Kenya | JQ912363 | - | JQ912458 |  |
| *Xanthoparmelia* sp. | MAF-Lich 17174 | Kenya | JQ912367 | - | JQ912462 |  |
| *Xanthoparmelia* sp. | MAF-Lich 17175 | Kenya | JQ912366 | - | JQ912461 |  |
| *Xanthoparmelia* sp. | MAF-Lich 17177 | Kenya | JQ912369 | - | JQ912464 |  |
| *Xanthoparmelia* sp. | MAF-Lich 17190 | South Africa | JQ912357 | - | - |  |
| *Xanthoparmelia* sp. | T. Feuerer & A. Thell (HBG), DNA1002 (HBG, LD) | South Africa | AY251433 | - | - |  |
| *Xanthoparmelia* sp. | T. Feuerer & A. Thell (HBG), DNA993 (HBG, LD) | South Africa | AY251453 | - | - |  |
| *Xanthoparmelia* sp. | X hottentotta Namibia | South Africa | MT094849 | MT093729 | MT093339 |  |
| *Xanthoparmelia* sp. | Kirika 4813 (F) | Kenya | **OQ356402** | **-** | **-** |  |
| *Xanthoparmelia squamans* | MAF-Lich 17128 | Chile | JQ912325 | - | JQ912421 |  |
| *Xanthoparmelia squamans* | MAF-Lich 17129 | Chile | JQ912327 | - | JQ912423 |  |
| *Xanthoparmelia squamans* | MAF-Lich 17131 | Chile | JQ912343 | MG695842 | JQ912440 |  |
| *Xanthoparmelia* vs. *squamariata* | Wirth B 60 0198392 | South Africa | **OQ356354** | **-** | **-** |  |
| *Xanthoparmelia* vs. *squamariata* | Wirth B 60 0198388 | South Africa | **OQ356352** | **-** | **OQ366483** |  |
| *Xanthoparmelia* vs. *squamariata* | Wirth B 60 0201770 | South Africa | **OQ356353** | **OQ366434** | **OQ366485** |  |
| *Xanthoparmelia* cf. *stenophylla* | TO3658 Cryptogamia | Italy: Piedmont, Susa Valley, Bussoleno, loc. Tignai | KP129474 | - | - | Holarctic Clade |
| *Xanthoparmelia* cf. *stenophylla* | TO3695 Cryptogamia | Italy: Europe, Valle d'Aosta, St. Cristophe, loc. Croux | KP129453 | - | - | Holarctic Clade |
| *Xanthoparmelia* cf. *stenophylla* | TO3696 Cryptogamia | Italy: Europe, Valle d'Aosta, St. Cristophe, loc. Croux | KP129455 | - | - | Holarctic Clade |
| *Xanthoparmelia* cf. *stenophylla* | TO3697 Cryptogamia | Italy: Europe, Valle d'Aosta, St. Cristophe, loc. Croux | KP129457 | - | - | Holarctic Clade |
| *Xanthoparmelia* cf. *stenophylla* | TO3698 Cryptogamia | Italy: Europe, Valle d'Aosta, St. Cristophe, loc. Croux | KP129469 | - | - | Holarctic Clade |
| *Xanthoparmelia stenophylla* | 20175551 | China: Xinjiang | MK617522 | - | - | Holarctic Clade |
| *Xanthoparmelia stenophylla* | BRY 55511 | USA | HM578963 | - | HM579370 | Holarctic Clade |
| *Xanthoparmelia stenophylla* | BRY 55512 | USA | HM578965 | - | HM579372 | Holarctic Clade |
| *Xanthoparmelia stenophylla* | BRY 55514 | USA | HM578967 | - | HM579374 | Holarctic Clade |
| *Xanthoparmelia stenophylla* | BRY 55518 | USA | HM578971 | - | HM579378 | Holarctic Clade |
| *Xanthoparmelia stenophylla* | BRY 55520 | USA | HM578973 | - | HM579380 | Holarctic Clade |
| *Xanthoparmelia stenophylla* | BRY 55521 | USA | HM578974 | - | HM579381 | Holarctic Clade |
| *Xanthoparmelia stenophylla* | BRY 55535 | USA | HM578988 | - | HM579394 | Holarctic Clade |
| *Xanthoparmelia stenophylla* | BRY 55536 | USA | HM578989 | - | HM579395 | Holarctic Clade |
| *Xanthoparmelia stenophylla* | BRY 55542 | USA | HM578995 | - | HM579401 | Holarctic Clade |
| *Xanthoparmelia stenophylla* | BRY 55543 | USA | HM578996 | - | HM579402 | Holarctic Clade |
| *Xanthoparmelia stenophylla* | BRY 55544 | USA | HM578997 | - | HM579403 | Holarctic Clade |
| *Xanthoparmelia stenophylla* | BRY 55545 | USA | HM578998 | - | HM579404 | Holarctic Clade |
| *Xanthoparmelia stenophylla* | BRY 55547 | USA | HM579000 | - | HM579406 | Holarctic Clade |
| *Xanthoparmelia stenophylla* | BRY 55548 | USA | HM579001 | - | HM579407 | Holarctic Clade |
| *Xanthoparmelia stenophylla* | BRY 55553 | USA | HM579006 | - | HM579412 | Holarctic Clade |
| *Xanthoparmelia stenophylla* | BRY 55554 | USA | HM579007 | - | HM579413 | Holarctic Clade |
| *Xanthoparmelia stenophylla* | BRY 55555 | USA | HM579008 | - | HM579414 | Holarctic Clade |
| *Xanthoparmelia stenophylla* | BRY 55558 | USA | HM579011 | - | HM579417 | Holarctic Clade |
| *Xanthoparmelia stenophylla* | BRY 55559 | USA | HM579012 | - | HM579418 | Holarctic Clade |
| *Xanthoparmelia stenophylla* | MAF 9917 | Spain | AY581093 | AY582329 | AY578959 | Holarctic Clade |
| *Xanthoparmelia stenophylla* | MAF-Lich 17195 | Turkey | JQ912370 | - | JQ912465 | Holarctic Clade |
| *Xanthoparmelia stenophylla* | MAF-Lich 17196 | Turkey | JQ912372 | MG695844 | JQ912467 | Holarctic Clade |
| *Xanthoparmelia stenophylla* | O-L-208338 | Norway: Ostfold, Hvaler, Herfol, northern part | MK811834 | - | - | Holarctic Clade |
| *Xanthoparmelia stenophylla* | Tshernyshev s. n. (BRY-C) | Kazakhstan | MG695583 | MG695843 | MG695683 | Holarctic Clade |
| *Xanthoparmelia subamplexuloides* | MAF-LICH 16441 | Kenya | HM125753 | HM125735 | HM125779 |  |
| *Xanthoparmelia subchalybaeizans* | Wirth B 60 0198685 | South Africa | **OQ356385** | **-** | **OQ366505** |  |
| *Xanthoparmelia subchalybaeizans* | MAF-Lich 15530-1 | South Africa | GU903336 | - | - |  |
| *Xanthoparmelia subchalybaeizans* | MAF-LICH 15531-1 | South Africa | HM125745 | - | HM125767 |  |
| *Xanthoparmelia subchalybaeizans* | MAF-LICH 15531-2 | South Africa | HM125748 | HM125727 | HM125771 |  |
| *Xanthoparmelia subchalybaeizans* | MAF-LICH 15532 | South Africa | HM125750 | HM125730 | HM125774 |  |
| *Xanthoparmelia subchalybaeizans* | MAF-Lich 15533 | South Africa | GU903331 | GU903322 | GU903340 |  |
| *Xanthoparmelia subchalybaeizans* | MAF-LICH 15533-1 | South Africa | HM125743 | HM125721 | HM125765 |  |
| *Xanthoparmelia subchalybaeizans* | MAF-LICH 15534 | South Africa | HM125747 | HM125726 | HM125770 |  |
| *Xanthoparmelia subchalybaeizans* | MAF-LICH 16443 | South Africa | HM125759 | HM125738 | HM125784 |  |
| *Xanthoparmelia subchalybaeizans* | MAF-Lich 17188 | South Africa | JQ912385 | - | JQ912478 |  |
| *Xanthoparmelia subcrustacea* | leg. Elix 31949 (HBG); DNA#1672 | Australia: Western Australia | DQ167449 | - | - | Australian Clade B |
| *Xanthoparmelia subcumberlandia* | Leavitt 121 (BRY-C) | USA: Utah | MG695584 | MG695845 | MG695684 | Holarctic Clade |
| *Xanthoparmelia subcumberlandia* | Leavitt 18-604 BRY-C | USA: Utah | MZ243893 | - | - | Holarctic Clade |
| *Xanthoparmelia subcumberlandia* | Leavitt 18-671xantho BRY-C | USA: Utah | MZ243894 | - | - | Holarctic Clade |
| *Xanthoparmelia subdiffluens* | MAF 9910 | Spain | AY581105 | AY582340 | AY578973 | Holarctic Clade |
| *Xanthoparmelia subdiffluens* | MAF-Lich 17178 | Spain | JQ912381 | - | JQ912474 | Holarctic Clade |
| *Xanthoparmelia subdomokosii* | Wirth B 60 0198695 | South Africa | **OQ356394** | **OQ366466** | **OQ366487** |  |
| *Xanthoparmelia subdomokosii* | MAF-Lich 17187 | South Africa | JQ912384 | MG695846 | JQ912477 |  |
| *Xanthoparmelia subhosseana* | MAF-Lich 17133 | Chile | JQ912345 | - | JQ912442 |  |
| *Xanthoparmelia subhosseana* | MAF-Lich 17149 | USA | JQ912337 | - | JQ912434 |  |
| *Xanthoparmelia subimitatrix* | MAF-Lich 17130 | Chile | JQ912328 | MG695847 | JQ912424 | Australian Clade C |
| *Xanthoparmelia subincerta* | CANB 746346.1 | Australia | JQ912296 | - | JQ912397 | Australian Clade C |
| *Xanthoparmelia subincerta* | MAF 7494 | Australia | AY581073 | AY582310 | AY578937 | Australian Clade C |
| *Xanthoparmelia sublaevis* | MAF 7460 | Spain: Tenerife, Canary Islands | AY581106 | AY582341 | AY578974 | Holarctic Clade |
| *Xanthoparmelia sublaevis* | MAF-Lich 17180 | Spain | JQ912356 | MG695848 | JQ912452 | Holarctic Clade |
| *Xanthoparmelia subprolixa* | CANB 746355 | Australia | JQ912297 | - | JQ912398 | Australian Clade C |
| *Xanthoparmelia subprolixa* | Elix 46152 (F) | Australia | MG695585 | MG695849 | MG695685 | Australian Clade C |
| *Xanthoparmelia subprolixa* | MAF 7667 | Australia | AY581074 | AY582311 | AY578938 | Australian Clade C |
| *Xanthoparmelia* aff. *subramigera* | Kirika 2293 (F) | Kenya | MG695513 | MG695762 | MG695614 |  |
| *Xanthoparmelia* aff. *subramigera* | Kirika 2779 (F) | Kenya | MG695524 | MG695773 | MG695625 |  |
| *Xanthoparmelia* aff. *subramigera* | Kirika 3232 (F) | Kenya | MG695517 | MG695766 | MG695617 |  |
| *Xanthoparmelia* aff. *subramigera* | Kirika 3235illumina (F) | Kenya | MG695519 | MG695768 | MG695619 |  |
| *Xanthoparmelia* aff. *subramigera* | Kirika 3235sanger (F) | Kenya | MG695520 | MG695769 | MG695620 |  |
| *Xanthoparmelia* aff. *subramigera* | Kirika 3553illumina (F) | Kenya | MG695510 | MG695758 | MG695610 |  |
| *Xanthoparmelia* aff. *subramigera* | Kirika 3680 (F) | Kenya | MG695518 | MG695767 | MG695618 |  |
| *Xanthoparmelia* aff. *subramigera* | Kirika 3691A (F) | Kenya | MG695511 | MG695760 | MG695612 |  |
| *Xanthoparmelia* aff. *subramigera* | Kirika 3811 (F) | Kenya | MG695521 | MG695770 | MG695621 |  |
| *Xanthoparmelia* aff. *subramigera* | Kirika 3936 (F) | Kenya | MG695512 | MG695761 | MG695613 |  |
| *Xanthoparmelia* aff. *subramigera* | Kirika 4117illumina (F) | Kenya | MG695514 | MG695763 | MG695615 |  |
| *Xanthoparmelia* aff. *subramigera* | Kirika 4117sanger (F) | Kenya | MG695515 | MG695764 | MG695616 |  |
| *Xanthoparmelia* aff. *subramigera* | Kirika 4583illumina (F) | Kenya | MG695525 | MG695774 | MG695626 |  |
| *Xanthoparmelia* aff. *subramigera* | Kirika 4583sanger (F) | Kenya | MG695526 | MG695775 | MG695627 |  |
| *Xanthoparmelia* aff. *subramigera* | Kirika 4645 (F) | Kenya | MG695522 | - | MG695622 |  |
| *Xanthoparmelia* aff. *subramigera* | Kirika 4748 (F) | Kenya | MG695516 | MG695765 | - |  |
| *Xanthoparmelia* aff. *subramigera* | Kirika 4875 (F) | Kenya | MG695523 | MG695771 | MG695623 |  |
| *Xanthoparmelia subramigera* | 424 | South Korea | KJ170879 | - | KJ170879 | Holarctic Clade |
| *Xanthoparmelia subramigera* | 4504 | South Korea | KJ170885 | - | KJ170885 | Holarctic Clade |
| *Xanthoparmelia subramigera* | 4679 | South Korea | KJ170888 | - | KJ170888 | Holarctic Clade |
| *Xanthoparmelia subramigera* | 5485 | South Korea | KJ170886 | - | KJ170886 | Holarctic Clade |
| *Xanthoparmelia subramigera* | 5486 | South Korea | KJ170887 | - | KJ170887 | Holarctic Clade |
| *Xanthoparmelia subramigera* | 12058 | South Korea | KJ170875 | - | KJ170875 | Holarctic Clade |
| *Xanthoparmelia subramigera* | 12946 | South Korea | KJ170874 | - | KJ170874 | Holarctic Clade |
| *Xanthoparmelia subramigera* | KoLRI004504 | South Korea | KM250128 | - | KM250128 | Holarctic Clade |
| *Xanthoparmelia subramigera* | KoLRI005485 | South Korea | KM250127 | - | KM250127 | Holarctic Clade |
| *Xanthoparmelia subramigera* | KoLRI012946 | South Korea | KM250124 | - | KM250124 | Holarctic Clade |
| *Xanthoparmelia subramigera* | Ruiz-Cazares, 1616 | Mexico: Mexico City | MW553779 | MW567207 | MW567184 |  |
| *Xanthoparmelia subramigera* | Ruiz-Cazares, 1619 | Mexico: Mexico City | MW553780 | MW567208 | MW567185 |  |
| *Xanthoparmelia subramigera* | Ruiz-Cazares, 1620 | Mexico: Mexico City | MW553781 | MW567209 | MW567186 |  |
| *Xanthoparmelia* aff. *subruginosa* | Kirika 2428 (F) | Kenya | MG695531 | MG695781 | MG695633 |  |
| *Xanthoparmelia* aff. *subruginosa* | Kirika 3814 (F) | Kenya | MG695529 | MG695779 | MG695631 |  |
| *Xanthoparmelia* aff. *subruginosa* | Kirika 3818illumina (F) | Kenya | MG695527 | MG695777 | MG695629 |  |
| *Xanthoparmelia* aff. *subruginosa* | Kirika 3818sanger (F) | Kenya | MG695528 | MG695778 | MG695630 |  |
| *Xanthoparmelia* aff. *subruginosa* | Kirika 3819 (F) | Kenya | MG695530 | MG695780 | MG695632 |  |
| *Xanthoparmelia* aff. *subruginosa* | Kirika 3819illumina (F) | Kenya | MG695533 | MG695783 | MG695635 |  |
| *Xanthoparmelia* aff. *subruginosa* | Kirika 3819sanger (F) | Kenya | MG695534 | MG695784 | MG695636 |  |
| *Xanthoparmelia* aff. *subruginosa* | Kirika 4486 (F) | Kenya | MG695532 | MG695782 | MG695634 |  |
| *Xanthoparmelia subspodochroa* | MAF 7463 | Australia | AY581082 | AY582318 | AY578946 | Australian Clade B |
| *Xanthoparmelia substenophylloides* | Wirth B 60 0201805 | South Africa | **OQ356377** | **OQ366441** | **OQ366496** |  |
| *Xanthoparmelia substrigosa* | Elix 31913 (HBG); DNA#1673 | Australia: Western Australia | DQ167450 | - | - | Australian Clade B |
| *Xanthoparmelia substrigosa* | Elix 46151 (F) | Australia | MG695586 | MG695850 | MG695686 | Australian Clade B |
| *Xanthoparmelia subtasmanica* | Barcenas-Pena, 7009 | Mexico: Estado de Mexico | MW553762 | MW567193 | MW567168 | Holarctic Clade |
| *Xanthoparmelia subtasmanica* | Ruiz-Cazares, 1602 | Mexico: Mexico City | MW553758 | MW567190 | MW567164 | Holarctic Clade |
| *Xanthoparmelia subverrucigera* | MAF 10209 | Spain | AY581091 | AY582327 | AY578957 |  |
| *Xanthoparmelia* aff. *supposita* | MAF-LICH 16206-1 | South Africa | HM125749 | HM125729 | HM125773 |  |
| *Xanthoparmelia* aff. *supposita* | MAF-LICH 16206-2 | South Africa | HM125751 | HM125731 | HM125775 |  |
| *Xanthoparmelia taractica* | 20155506 | China | MK629936 | - | - | Holarctic Clade |
| *Xanthoparmelia taractica* | 20180065 | China | MK629266 | - | - | Holarctic Clade |
| *Xanthoparmelia taractica* | 20180101 | China | MK629939 | - | - | Holarctic Clade |
| *Xanthoparmelia tasmanica* | Elix 30969 (HBG); DNA#1663 | Australia: South Australia | DQ167464 | - | - | Australian Clade B |
| *Xanthoparmelia tasmanica* | Elix 31915 (HBG); DNA#1655 | Australia: Western Australia | DQ167463 | - | - | Australian Clade B |
| *Xanthoparmelia tasmanica* | Elix 46166 (F) | Australia | MG695587 | MG695851 | MG695687 | Australian Clade B |
| *Xanthoparmelia tegeta* | MAF 7523 | Australia | AY581107 | AY582342 | AY578975 |  |
| *Xanthoparmelia tegeta* | Widhelm et al. 2131 (F) | Australia | MG695581 | MG695839 | MG695681 | Australian Clade B |
| *Xanthoparmelia tentaculina* | MAF-LICH 16445 | South Africa | HM125756 | - | HM125781 |  |
| *Xanthoparmelia tinctina* | 17176 (MAF-Lich) | Kenya | MG695591 | MG695856 | MG695691 |  |
| *Xanthoparmelia tinctina* | 20175548 | China | MK625185 | - | - | Holarctic Clade |
| *Xanthoparmelia tinctina* | 2017661 | China | MK625186 | - | - | Holarctic Clade |
| *Xanthoparmelia tinctina* | 20180165 | China | MK625189 | - | - | Holarctic Clade |
| *Xanthoparmelia tinctina* | 20180171 | China | MK625190 | - | - | Holarctic Clade |
| *Xanthoparmelia tinctina* | BCN 13861 | Spain | AY581109 | AY582344 | AY578977 |  |
| *Xanthoparmelia tinctina* | BCN 13862 | Spain | AY581110 | AY582345 | AY578978 |  |
| *Xanthoparmelia tinctina* | Kirika 4144 (F) | Kenya | MG695589 | MG695854 | MG695689 |  |
| *Xanthoparmelia tinctina* | Kirika 4146 (F) | Kenya | MG695590 | MG695855 | MG695690 |  |
| *Xanthoparmelia tinctina* | Kirika 4152Aillumina (MAF-Lich) | Kenya | MG695592 | MG695857 | MG695692 |  |
| *Xanthoparmelia tinctina* | Kirika 4152Asanger (MAF-Lich) | Kenya | MG695593 | MG695858 | MG695693 |  |
| *Xanthoparmelia tinctina* | Kirika 4210 (F) | Kenya | MG695588 | MG695853 | MG695688 |  |
| *Xanthoparmelia tinctina* | MAF 6070 | Spain | AY581108 | AY582343 | AY578976 |  |
| *Xanthoparmelia tinctina* | MAF-Lich 17173 | Kenya | JQ912365 | - | JQ912460 |  |
| *Xanthoparmelia tinctina* | MAF-Lich 17176 | Kenya | JQ912368 | - | JQ912463 |  |
| *Xanthoparmelia tinctina* | MAF-Lich 17197 | Turkey | JQ912371 | - | JQ912466 |  |
| *Xanthoparmelia tinctina* | O-L-184585 | Sweden: Bohuslaen, Tanum municipality, Lindoe, Tunnekilen | MK812507 | - | - |  |
| *Xanthoparmelia tinctina* | O-L-208333 | Norway: Ostfold, Hvaler, Kirkoy, Skjaerhalden | MK812642 | - | - |  |
| *Xanthoparmelia tinctina* | TO3662 Cryptogamia | Italy: Piedmont, Susa Valley, Bussoleno, loc. Tignai | KP129444 | - | - |  |
| *Xanthoparmelia tinctina* | TO3663 Cryptogamia | Italy: Piedmont, Susa Valley, Bussoleno, loc. Tignai | KP129443 | - | - |  |
| *Xanthoparmelia tinctina* | Ulf Larsson s.n. 2015-04-22 | Sweden: Halland. Olmevalla parish, Aasa, Vassbaecksomraadet | KX912229 | - | - |  |
| *Xanthoparmelia tinctina* | Wirth (B 60 0201789) | South Africa | MH714501 | **OQ366465** | **-** |  |
| *Xanthoparmelia tinctina* | Wirth (B 60 0201801) | South Africa | MH714500 | - | **OQ366497** |  |
| *Xanthoparmelia toninioides* | Wirth B 60 0198677 | South Africa | **OQ356392** | **OQ366440** | **OQ366489** |  |
| *Xanthoparmelia toninioides* | Wirth B 60 0198678 | South Africa | **OQ356393** | **-** | **OQ366476** |  |
| *Xanthoparmelia toninioides* | Wirth B 60 0198698 | South Africa | **OQ356391** | **-** | **OQ366478** |  |
| *Xanthoparmelia* aff. *tortula* | MAF-LICH 16446 | South Africa | HM125742 | HM125720 | HM125764 |  |
| *Xanthoparmelia tortula* | Wirth & Wirth B 60 0198854 | South Africa | **OQ356387** | **OQ366439** | **-** |  |
| *Xanthoparmelia torulosa* | CANB 746351 | Australia | JQ912298 | - | JQ912399 | Australian Clade C |
| *Xanthoparmelia torulosa* | CANB 746363.1 | Australia | JQ912299 | - | JQ912400 | Australian Clade C |
| *Xanthoparmelia transvaalensis* | MAF 9841 | Spain | AY581095 | AY582331 | AY578961 |  |
| *Xanthoparmelia tuberculiformis* | KoLRI012058 | South Korea | KM250131 | - | KM250131 | Holarctic Clade |
| *Xanthoparmelia tuckeriana* | Barcenas-Pena, 7452 | Mexico: Jalisco | MW553773 | MW567201 | MW567178 | Holarctic Clade |
| *Xanthoparmelia tucsonensis* | Barcenas-Pena, 7504 (F) | Mexico: Queretaro | MW553765 | MW567196 | MW567171 | Holarctic Clade |
| *Xanthoparmelia tzaneenensis* | MAF-Lich 17172 | Kenya | JQ912364 | - | JQ912459 |  |
| *Xanthoparmelia vagans* | BRY 55222 | USA | HM578677 | - | HM579087 | Holarctic Clade |
| *Xanthoparmelia vagans* | BRY 55223 | USA | HM578678 | - | HM579088 | Holarctic Clade |
| *Xanthoparmelia vagans* | BRY 55298 | USA | HM578751 | - | HM579163 | Holarctic Clade |
| *Xanthoparmelia vagans* | BRY 55309 | USA | HM578761 | - | HM579173 | Holarctic Clade |
| *Xanthoparmelia verisidiosa* | CANB 746341.1 | Australia | JQ912301 | - | JQ912402 | Australian Clade C |
| *Xanthoparmelia verisidiosa* | CANB 746345.1 | Australia | JQ912300 | - | JQ912401 | Australian Clade C |
| *Xanthoparmelia verrucella* | CANB 746349 | Australia | JQ912302 | - | JQ912403 | Australian Clade C |
| *Xanthoparmelia verrucella* | CANB 746353 | Australia | JQ912303 | - | JQ912404 | Australian Clade C |
| *Xanthoparmelia verrucella* | Elix 46168 (F) | Australia | MG695594 | MG695859 | MG695694 | Australian Clade C |
| *Xanthoparmelia verrucella* | MAF-Lich 17151 | South Africa | JQ912332 | - | JQ912428 |  |
| *Xanthoparmelia* aff. *verrucigera* | MAF 9920 | Spain | AY581111 | AY582346 | AY578979 |  |
| *Xanthoparmelia verrucigera* | Kirika 3326illumina (F) | Kenya | MG695595 | MG695860 | MG695695 |  |
| *Xanthoparmelia verrucigera* | Kirika 3326sanger (F) | Kenya | MG695596 | MG695861 | MG695696 |  |
| *Xanthoparmelia verrucigera* | Kirika 3330 (F) | Kenya | MG695597 | MG695862 | MG695697 |  |
| *Xanthoparmelia verrucigera* | MAF-Lich 17170 | Kenya | JQ912362 | MG695863 | JQ912457 |  |
| *Xanthoparmelia verruculifera* | Goward 09-358 (UBC) | Canada: British Columbia | KM386097 | - | KM386184 | Pulla Clade |
| *Xanthoparmelia verruculifera* | MAF-Lich 17114 | Spain | JQ912321 | - | - | Pulla Clade |
| *Xanthoparmelia verruculifera* | MAF-Lich 17145 | USA | JQ912338 | - | JQ912435 | Pulla Clade |
| *Xanthoparmelia verruculifera* | MAF-Lich 17146 | USA | JQ912334 | - | JQ912431 | Pulla Clade |
| *Xanthoparmelia verruculifera* | MAF-Lich 17147 | USA | JQ912336 | - | JQ912433 | Pulla Clade |
| *Xanthoparmelia verruculifera* | MAF-Lich 17148 | USA | JQ912335 | - | JQ912432 | Pulla Clade |
| *Xanthoparmelia verruculifera* | O-L-201346 | Norway: Oppland, Vang, Stronde | MK812281 | - | - | Pulla Clade |
| *Xanthoparmelia versicolor* | Elix 31464 (HBG); DNA#1667 | Australia: New South Wales | DQ167453 | - | - | Australian Clade B |
| *Xanthoparmelia versicolor* | Elix 31906 (HBG); DNA#1669 | Australia: Western Australia | DQ167454 | - | - | Australian Clade B |
| *Xanthoparmelia vicentii* | MAF 7248 | Spain | AY581112 | AY582347 | AY578980 | Holarctic Clade |
| *Xanthoparmelia vicentii* | MAF 9954 | Spain | AY581103 | - | AY578971 | Holarctic Clade |
| *Xanthoparmelia viriduloumbrina* | NY:1049906 | USA: Pennsylvania | HM066944 | - | - | Holarctic Clade |
| *Xanthoparmelia viriduloumbrina* | NY:1049917 | USA: Pennsylvania | HM066945 | - | - | Holarctic Clade |
| *Xanthoparmelia waboomsbergensis* | Wirth B 60 0201810 | South Africa | **OQ356367** | **OQ366442** | **OQ366500** |  |
| *Xanthoparmelia waboomsbergensis* | Wirth (B 60 0201809) | South Africa | MH714502 | - | **OQ366492** |  |
| *Xanthoparmelia weberi* | 20180110 | China | MK635501 | - | - | Holarctic Clade |
| *Xanthoparmelia wyomingica* | 20175523 | China | MK629937 | - | - | Holarctic Clade |
| *Xanthoparmelia wyomingica* | 20180111 | China | MK629942 | - | - | Holarctic Clade |
| *Xanthoparmelia wyomingica* | BRY 55256 | USA | HM578711 | - | HM579121 | Holarctic Clade |
| *Xanthoparmelia wyomingica* | BRY 55414 | USA | HM578864 | - | HM579275 | Holarctic Clade |
| *Xanthoparmelia wyomingica* | BRY 55449 | USA | HM578901 | - | HM579309 | Holarctic Clade |
| *Xanthoparmelia wyomingica* | BRY 55466 | USA | HM578918 | - | HM579326 | Holarctic Clade |
| *Xanthoparmelia wyomingica* | BRY 55498 | USA | HM578950 | - | HM579357 | Holarctic Clade |
| *Xanthoparmelia wyomingica* | BRY 55501 | USA | HM578953 | - | HM579360 | Holarctic Clade |
| *Xanthoparmelia wyomingica* | BRY 55502 | USA | HM578954 | - | HM579361 | Holarctic Clade |
| *Xanthoparmelia wyomingica* | BRY 55528 | USA | HM578981 | - | HM579387 | Holarctic Clade |
| *Xanthoparmelia wyomingica* | BRY 55529 | USA | HM578982 | - | HM579388 | Holarctic Clade |
| *Xanthoparmelia wyomingica* | BRY 55557 | USA | HM579010 | - | HM579416 | Holarctic Clade |
| *Xanthoparmelia wyomingica* | Leavitt 001 (BRY-C) | USA: Utah | MG695598 | MG695864 | MG695698 | Holarctic Clade |
| *Xanthoparmelia xanthomelaena* | Wirth B 60 0198699 | South Africa | **OQ356370** | **OQ366437** | **OQ366477** |  |
| *Xanthoparmelia xanthomelaena* | MAF-LICH 16447 | Australia | HM125740 | HM125717 | HM125761 |  |
| *Xanthoparmelia xanthomelanella* | Wirth B 60 0201800 | South Africa | **OQ356368** | **OQ366455** | **OQ366491** |  |
| *Xanthoparmelia xanthomelanella* | Wirth B 60 0201812 | South Africa | **OQ356369** | **OQ366457** | **OQ366503** |  |