

Supplementary material

Appendix 1. List of taxa and GenBank accession numbers for sequences used in this study. All sequences were published by Logacheva et al. (2010) and obtained by us from GenBank, except for the sequences of *A. oncosepala* and *H. yunnanense*. GenBank accession numbers are provided for two loci: ITS (= ITS1, 5.8S rRNA gene and ITS2) / ETS or ITS1 & ITS2 / ETS; Specimens voucher information of *A. oncosepala* and *H. yunnanense* is also given (locality, collector number and herbarium).

Angelica oncosepala Handel-Mazzetti. DQ0713, KY418610 / KY418608 China, Yunnan, Deqin County, Mekong-Salwin Divide, near Cizhong, Gxl-2015071301 (SZ!); *Angelica oncosepala* Handel-Mazzetti. GS0904, KY418611 / KY418608, China, Yunnan, Gongshan County, Bangdang Xiang, Xqy-2016090402 (SZ!); *Conium maculatum* L. 3186 Ethiopia, GU266011 / GU266162; *Conium maculatum* L. 3638 Russia, GU266009 / GU266160; *Conium maculatum* L. 3636 Israe, GU265964 / GU266112; *Cymbocarpum anethoides* DC. ex C.A.Mey., GU190156 / GU291350; *Cymbocarpum wiedemannii* Boiss., GU291352 / GU291351; *Ducrosia anethifolia* (DC.) Boiss., AY941268 & AY941296 / FJ807503; *Ducrosia assadii* Alava, DQ427043 / GU190152; *Heracleum yunnanense* (Franch.) Manden LP0822, KY440150 / KY440151, China, Yunnan, Eryuan County, Luoping Shan, Xqy-2016082201 (SZ!); *Heracleum aconitifolium* Woronow, AF008625 & AF009104 / FJ807504; *Heracleum apiifolium* Boiss., DQ427050 / FJ807505; *Heracleum austriacum* L. subsp. *siifolium* (Scop.) Nyman, EU594891 / GU190147; *Heracleum chorodanum* (Hoffm.) DC., DQ427049 / FJ807506; *Heracleum lanatum* Michx., U30542 & U30543 / GU266062; *Heracleum lasiopetalum* Boiss., EF043034 & EF043035 / FJ807507; *Heracleum ligusticifolium* M.Bieb., DQ996588 & DQ996589 / FJ807508; *Heracleum mantegazzianum* Sommier & Levier, DQ468080

/ FJ807509; *Heracleum minimum* Lam., DQ996572 / FJ807510; *Heracleum paphlagonicum* Czeczott, FJ861171 & FJ828988 / FJ807511; *Heracleum pastinacifolium* K.Koch, EF043022 / FJ807512; *Heracleum schelkovnikovii* Woronow, EF043025 / GU190151; *Heracleum sibiricum* L., EF043030 / FJ807513; *Kalakia marginata* (Boiss.) Alava, FJ861172 & FJ828989 / FJ807514; *Kandaharia rechingerorum* Alava, DQ427052 / GU190150; *Lalldhwojia acronemifolia* (H.Wolff) M.F.Watson ex D.G.Long, DQ427044 / GU190148; *Lalldhwojia pastinacifolia* Pimenov & Kljuykov, EU526117 & EU526118 / GU190146; *Mandenovia komarovii* (Manden.) Alava, EF043009 / FJ807515; *Pastinaca clausii* (Ledeb.) Calest., DQ996579 & GU190149; *Pastinaca sativa* L., FJ861173 & FJ829023 / FJ807516; *Pastinacopsis glacialis* Golosk., FJ861174 & FJ828990 / FJ807517; *Peucedanum parkinsonii* Fedde ex H.Wolff, GU190154 / GU190155; *Peucedanum siamicum* Craib, GU190153 & GU291348 / GU291349; *Pinda concanensis* (Dalzell) P.K.Mukh. & Constance, FJ861175 & FJ828991 / FJ807518; *Semenovia alaica* Lazkov, FJ861176 & FJ828992 / FJ807519; *Semenovia dasycarpa* (Regel & Schmalh.) Korovin ex Czer., FJ861178 & FJ828994 / FJ807521; *Semenovia frigida* (Boiss. & Hausskn. ex Boiss.) Manden., DQ427039 / FJ807523; *Semenovia heterodonta* (Korovin) Manden., FJ861181 & FJ828997 / FJ807526; *Semenovia millefolia* (Diels) V.M.Vinogr. & Kamelin, FJ861183 & FJ828999 / FJ807528; *Semenovia pamirica* (Lipsky) Manden., FJ861184 & FJ829000 / FJ807529; *Semenovia pimpinelloides* (Nevski) Manden., FJ861185 & FJ829001 / FJ807530; *Semenovia rubtzovii* (Schischk.) Manden., FJ861186 & FJ829002 / FJ807532; *Semenovia thomsonii* (C.B.Clarke) Manden., FJ861188 & FJ829004 / FJ807534; *Semenovia tragioides* (Boiss.) Manden., AY941288 & AY941316 / FJ807535; *Semenovia transiliensis* Regel & Herder, EU526113 & EU526114 / FJ807536;

Semenovia zaprjagaevii Korovin, FJ861206 & FJ829007 / FJ807538; *Symphyloma graveolens* C.A.Mey., EF043015 / FJ807539; *Tetrataenium aquilegifolium* (C.B.Clarke) Manden. MW2, FJ861191 & FJ829008 / FJ807540; *Tetrataenium aquilegifolium* (C.B.Clarke) Manden. MW23, FJ861192 & FJ829021 / FJ807541; *Tetrataenium candicans* (DC.) Manden., FJ861196 & FJ829011 / FJ807545; *Tetrataenium ligusticifolium* (Wight) Manden. MW112, FJ861193 & FJ829009 / FJ807542; *Tetrataenium ligusticifolium* (Wight) Manden. MW89, FJ861194 & FJ829022 / FJ807543; *Tetrataenium cardiocarpum* (Rech.f. & Riedl) Manden., FJ861197 & FJ829012 / FJ807547; *Tetrataenium lallii* (C.Norman) Cauwet et al., FJ861198 & FJ829013 / FJ807548; *Tetrataenium olgae* (Regel & Schmalh.) Manden., FJ861199 & FJ829014 / FJ807549; *Tetrataenium pinnatum* (C.B.Clarke) Manden., DQ427034 / FJ807550; *Tetrataenium rigens* (DC.) Manden., FJ861200 & FJ829015 / FJ807551; *Tetrataenium sprengelianum* (Wight & Arn.) Manden., FJ861195 & FJ829010 / FJ807544; *Tetrataenium sublineare* (C.B.Clarke) Manden. ex Farille et al., FJ861201 & FJ829016 / FJ807552; *Tordyliopsis brunonis* DC., FJ861202 & FJ829017 / FJ807553; *Vanasushava pedata* (Wight) P.K.Mukh. & Constance, FJ861203 & FJ829018 / FJ807554; *Zosima absinthifolia* (Vent.) Link, FJ861204 & FJ829019 / FJ807555; *Zosima korovinii* Pimenov., FJ861205 & FJ829020 / FJ807556.