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Supplement of

Problems related to the taxonomic placement of incompletely preserved amber fossils: transfer of the Paleogene liverwort *Cylindrocolea dimorpha* (Cephaloziellaceae) to the extant *Odontoschisma* sect. *Iwatsukia* (Cephaloziaceae)

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Taxa used in the divergence time estimates, including information about the origin of the studied material, voucher information, as well as GenBank accession numbers.

Species	Origin	Voucher (Herbarium)	ITS1-5.8S-ITS2	trnLF	rbcL
<i>Adelanthus lindenbergianus</i> (Lehm.) Mitt.	Chile	Mahu 50424 (JE)	GQ899970	GQ900178	GQ900283
<i>Alobiella husnotii</i> Schiffn.	Guadeloupe	Schäfer-Verwimp & Verwimp 22602 (M)	KX098787	KX098944	KX098867
<i>Alobiellopsis dominicensis</i> (Spruce) Fulford	Guadeloupe	Schäfer-Verwimp & Verwimp 22133 (M)	KX098789	KX098946	KX098868
<i>A. parvifolia</i> (Steph.) R.M.Schust.	Japan	Bryophytes of Asia Fasc. 8 #191 (KPABG)	JX629894	JX630020	-----
<i>Cephalozia albula</i> (Steph.) Potemkin & Sofronova	China	Long 36129 (E)	KX098790	KX098947	KX098869
<i>C. badia</i> (Gottsche) Steph.	South Georgia Island	Newsham s.n. (Váňa)	KX098797	KX098954	KX098876
<i>C. bicuspidata</i> (L.) Dumort.	Germany	Schäfer-Verwimp et al. 32465 (M)	KX098800	KX098957	KX098879
<i>C. bicuspidata</i>	Portugal, Azores	Schäfer-Verwimp & Verwimp 29130 (M)	KX098801	KX098958	KX098880
<i>C. conchata</i> (Grolle & Váňa) Váňa	China I	Long & Shevock 37157 (E)	KX098803	KX098960	KX098882
<i>C. conchata</i>	China II	Long 34888 (E)	KX098805	KX098962	KX098884
<i>C. crossii</i> Spruce	Costa Rica	Schäfer-Verwimp & Holz SV/H-0255 (M)	KX098806	KX098963	KX098885
<i>C. drucei</i> (R.M.Schust.) Váňa	New Zealand	Engel et al. 24990 (GOET)	KX098809	KX098966	KX098888
<i>C. hamatiloba</i> Steph. subsp. <i>siamensis</i> (N.Kitag.) Váňa	China	Long 36263 (E)	KX098811	KX098970	KX098892
<i>C. cf. neesiana</i> Steph.	Indonesia	Schäfer-Verwimp & Verwimp 25276 (M)	KX098816	KX098975	KX098897
<i>Fuscocephaloziopsis affinis</i> (Lindb. ex Steph.) Váňa & L.Söderstr.	Russia	Konstantinova K473-2-07 (KPABG)	JX629827	JX629952	-----
<i>F. affinis</i>	Slovakia	Váňa 6. (M)	KX098817	KX098976	KX098898
<i>F. albescens</i> (Hook.) Váňa & L.Söderstr.	Switzerland	Schäfer-Verwimp 32534 (M)	KX098818	KX098977	KX098899
<i>F. albescens</i>	USA	Konstantinova 90-1-92b (KPABG)	JX629866	JX629992	-----
<i>F. catenulata</i> (Huebener) Váňa & L.Söderstr.	Germany	Schäfer-Verwimp 31079 (M)	KX098820	KX098979	KX098901
<i>F. catenulata</i>	Jamaica	Schäfer-Verwimp 35124 (M)	KX098822	KX098981	KX098903
<i>F. commivens</i> (Dicks.) Váňa & L.Söderstr.	Czech Republic	Váňa 10. (M)	KX098823	KX098982	KX098904
<i>F. commivens</i>	Republic of São Tomé & Príncipe, Príncipe Island	Shevock et al. 40190 (M)	KX098826	KX098985	KX098907
<i>F. crassifolia</i> (Lindenb. & Gottsche) Váňa &	Panama	Schäfer-Verwimp & Verwimp 34224	KX098828	KX098987	KX098909

L.Söderstr.		(M)			
<i>F. crassifolia</i>	Portugal, Azores	Schäfer-Verwimp & Verwimp 33597 (M)	KX098829	KX098988	KX098910
<i>F. gollanii</i> (Steph.) Vána & L.Söderstr.	Bhutan	Long 38912 (E)	KX098830	KX098989	KX098911
<i>F. gollanii</i>	China	Long & Shevock 37373 (E)	KX098831	KX098990	-----
<i>F. leucantha</i> (Spruce) Vána & L.Söderstr.	Czech Republic	Vána 9. (M)	KX098832	KX098991	KX098912
<i>F. leucantha</i>	Sweden	Vána 8. (M)	KX098833	KX098992	KX098913
<i>F. loitlesbergeri</i> (Schiffn.) Vána & L.Söderstr.	Czech Republic	Vána 7. (M)	KX098834	KX098993	KX098914
<i>F. loitlesbergeri</i>	Russia	Konstantinova 503-8-04 (KPABG)	JX629844	JX629969	-----
<i>F. lunulifolia</i> (Dumort.) Vána & L.Söderstr.	Russia	Konstantinova K 343-1-04 (KPABG)	JX629828	JX629953	-----
<i>F. lunulifolia</i>	Sweden	Vána 3. (M)	KX098835	KX098994	-----
<i>F. macrostachya</i> (Kaal.) Vána & L.Söderstr.	USA	Konstantinova 07.06.1992 (KPABG)	JX629836	JX629971	-----
<i>F. monticola</i> (J.D.Godfrey) Vána & L.Söderstr.	USA I	Konstantinova 90-4-92 (KPABG)	JX629860	JX629986	-----
<i>F. monticola</i>	USA II	Konstantinova A 19-1b-95 (KPABG)	JX629862	JX629988	-----
<i>F. pachycaulis</i> (R.M.Schust.) Vána & L.Söderstr.	China	Long & Shevock 37405 (E)	KX098836	KX098995	KX098915
<i>F. pachycaulis</i>	Russia	Konstantinova & Savchenko 117-01 (KPABG)	JX629846	JX629972	-----
<i>F. pleniceps</i> (Austin) Vána & L.Söderstr.	Austria	Schäfer-Verwimp & Verwimp 18115 (M)	KX098837	KX098996	KX098916
<i>F. pleniceps</i>	Russia	Bakalin VB-99-6-1...33 (KPABG)	JX629853	JX629983	-----
<i>F. pulvinata</i> (Steph.) Fulford	Colombia	Gradstein 8957 (GOET)	KX098838	KX098998	KX098917
<i>Nowellia curvifolia</i> (Dicks.) Mitt.	Dominican Republic	Schäfer-Verwimp & Verwimp 26885 (M)	KX098839	KX098999	KX098918
<i>N. curvifolia</i>	Germany	Schäfer-Verwimp & Verwimp 28863 (M)	KX098840	KX099000	KX098919
<i>N. wrightii</i> (Gottsche ex Spruce) Steph.	Dominica I	Schäfer-Verwimp & Verwimp 17954/A (M)	KX098844	KX099004	KX098923
<i>N. wrightii</i>	Dominica II	Schäfer-Verwimp & Verwimp 17753 (M)	KX098843	KX099003	KX098922
<i>Odontoschisma denudatum</i> (Moart.) Dumort.	Portugal, Azores	Schäfer-Verwimp & Verwimp 29511 (M)	KX098846	KX099005	KX098924
<i>O. denudatum</i>	Russia	Bakalin K-48-26-07 (KPABG)	JX629906	JX630032	-----
<i>O. elongatum</i> (Lindb.) A.Evans	Norway	Konstantinova K 142-1-04 (KPABG)	JX629870	JX630001	-----
<i>O. elongatum</i>	Portugal, Azores	Schäfer-Verwimp & Verwimp 33337 (M)	KX098849	KX099007	KX098925
<i>O. fluitans</i> (Nees) L.Söderstr. & Vána	Germany	Schäfer-Verwimp & Verwimp 16482 (M)	KX098850	KX099009	KX098927
<i>O. fluitans</i>	Russia	Konstantinova K 455-5a-04 (KPABG)	JX629882	JX630009	-----

<i>O. francisci</i> (Hook.) L.Söderstr. & Vána	Russia I	Bakalin K-10-10-03 (KPABG)	JX629888	JX630015	-----
<i>O. francisci</i>	Russia II	Konstantinova 67-97 (KPABG)	JX629886	JX630013	-----
<i>O. grosseverrucosum</i> Gradst., S.C.Aranda & Vanderp.	China I	Long 33872 (E)	KX098855	KX099014	KX098932
<i>O. grosseverrucosum</i>	China II	Long 36139 (E)	KX098854	KX099013	KX098931
<i>O. jishibae</i> (Steph.) L.Söderstr. & Vána	Russia	Konstantinova & Savchenko 48-1-01 (KPABG)	EU791846	EU791722	-----
<i>O. longiflorum</i> (Taylor) Trevis.	Jamaica	Schäfer-Verwimp 35070 (M)	KX098852	KX099011	KX098929
<i>O. longiflorum</i>	Panama	Schäfer-Verwimp & Verwimp 34382/B (M)	KX098853	KX099012	KX098930
<i>O. macounii</i> (Austin) Underw.	Norway	Konstantinova K101-2-10 (KPABG)	JX629910	JX630036	-----
<i>O. macounii</i>	Russia	Bakalin S-27-22-06 (KPABG)	JX629909	JX630035	-----
<i>O. pseudogrosseverrucosum</i> Steph.	South Korea I	Bakalin Kor-11-11d-09 (KPABG)	JX629912	JX630038	-----
<i>O. pseudogrosseverrucosum</i>	South Korea II	Choi, Hepaticae Korea Exsiccatae Fasc. I. # 97 (KPABG)	JX629911	JX630037	-----
<i>O. sphagni</i> (Dicks.) Dumort.	Jamaica	Schäfer-Verwimp 35090 (M)	KX098856	KX099015	KX098933
<i>O. sphagni</i>	Portugal, Azores	Schäfer-Verwimp & Verwimp 33431 (M)	KX098858	KX099017	KX098935
<i>O. variabile</i> (Lindenb. & Gottsche) Trevis.	Brazil	Schäfer-Verwimp & Verwimp 13357 (M)	KX098860	KX099019	KX098937
<i>O. variabile</i>	Ecuador	Schäfer-Verwimp & Nebel 31991 (M)	KX098864	KX099023	KX098941
<i>O. yunnanense</i> K.Feldberg, Vána, D.G.Long & Heinrichs	China	Long 34657 (E)	KX098865	KX099024	KX098942
<i>Schiffneria hyalina</i> Steph.	Indonesia	Schäfer-Verwimp & Verwimp 24869 (M)	KX098866	-----	KC184759
<i>Syzygiella perfoliata</i> (Swartz) Spruce	Brazil	Costa & Gradstein 3888 (GOET)	GQ900049	GQ900258	GQ900353