

Supplementary materials for:

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On the taxonomy of Anomodontaceae and *Heterocladium* (Bryophyta)*Arctoa* 28: 75–102

Appendix 1. Specimens used for the molecular phylogenetic analyses. Newly sequenced specimens are annotated by herbarium codes of MW (see <https://plant.depo.msu.ru/module/itemsearchpublic/#>) or MHA (<http://arctoa.ru/Flora/basa.php>) or, if not in the database, by mentioning collection and herbarium. For trnS–trnL region some sequences are marked as follow: * – incomplete at 3' (trnS–rps4 spacer); ** – incomplete at 5' (trnT–trnL region).

Species as in trees (for new sequences: Isolate/Country/Herbarium #)	nrITS	trnS–trnL	rpl16	nad5	atpB–rbcL
<i>Hookeria lucens</i>	FM161138	AM990394*	FM160991	FM161289	MK313904
<i>Distichophyllum crispulum</i>	FM161096	AM990360	-	FM161255	-
<i>Baldwiniella kealeensis</i>	FM161078	AM990345	FM160948	FM161242	-
<i>Brachythecium rivulare</i>	FM161081	AM990348	EF531018	FM161245	-
<i>Chileobryon callicostelloides</i>	FM161088	FM210283	FM200841	FM882226	-
<i>Pendulothecium punctatum</i>	FM161187	AM990421	FM161033	FM161314	-
<i>Claopodium pellucinerve</i> (AnomF9, Russia, MW9007331)	MN030550	MN045103	MN045064	MN045026	MN045148
<i>Claopodium</i> whippleanum (AnomF25, USA, MW9079050)	MN030547	MN045104	MN045065	AY908746	MN045149
<i>Cryphaea amurensis</i>	FM161090	AM990355	-	FM161251	-
<i>Curvcladium kurzii</i>	FM161093	FM210285	FM160959	-	-
<i>Dendroalsia abietina</i>	FM161095	AM990358*	FM160961	FM161254	-
<i>Dozya japonica</i>	LS999107	LR130204	LS999081	LS999058	-
<i>Echinodiopsis hispida</i>	FM161099	FM210286*	FM160964	LS999075	-
<i>Echinodium renauldii</i>	EU477605	LR130206	LS999085	LS999060	-
<i>Echinodium spinosum</i>	LS999109	LR130207	LS999086	LS999061	-
<i>Forsstroemia trichomitria</i>	FM161103	AM990365	FM160968	FM161260	HQ268446
<i>Haplohymenium pseudotriste</i> (OK2137, Japan, MHA9054148)	MN030515	MN045109	MN045070	-	MN045154
<i>Haplohymenium longinerve</i> 1 (OK576, Russia, Ignatov 07-355, MHA)	MN030505	MN045106	MN045067	MN045028	MN045151
<i>Haplohymenium longinerve</i> 2 (OK2133, Russia, MHA9035417)	MN030513	MN045107**	MN045068	MN045029	MN045152
<i>Haplohymenium longinerve</i> 3 (OK2134, Russia, MHA9035366)	MN030514	MN045108**	MN045069	MN045030	MN045153
<i>Haplohymenium longinerve</i> 4	FM161111	AM990372*	-	FM161267	-
<i>Haplohymenium flagelliforme</i> 1 (OK619, Russia, MHA9035364)	MN030510	MN045105	MN045066	MN045027	MN045150
<i>Haplohymenium flagelliforme</i> 2 (OK2138, Russia, MHA9035363)	MN030516	-	-	-	-
<i>Haplohymenium sieboldii</i> 1 (OK577, Russia, Czernyadjeva 17.VII.2010, 24-10, LE)	MN030506	MN045110	MN045071	-	MN045155
<i>Haplohymenium sieboldii</i> 2 (OK578, Russia, Ignatov & Ignatova # 06-2326, MHA)	MN030507	MN045111	MN045072	MN045031	MN045156
<i>Haplohymenium triste</i> 1 (AnomF26, Russia, MW9090494)	MN030548	MN045112	MN045073	MN045032	MN045157
<i>Haplohymenium triste</i> 2 (AnomF27, Russia, MW9042715)	MN030549	MN045113	MN045074	MN045033	MN045158
<i>Herpetineuron toccocae</i> 1 (AnomF22, Russia, MW9074852)	MN030545	MN045114	-	MN045034	MN045159
<i>Herpetineuron</i> toccocae 2 (AnomF23, Russia, MW9077735)	MN030546	MN045115	-	MN045035	MN045160
<i>Herpetineuron toccocae</i> 3	FM161114	AM990375	-	FM161270	KF770627
<i>Anomodon attenuatus</i> 1 (OK2169, Russia, MHA9001296)	MN030517	MN045084	-	-	MN045128
<i>Anomodon attenuatus</i> 2 (OK2209, Russia, MHA9050307)	MN030519	MN045086	MN045044	-	MN045130
<i>Anomodon attenuatus</i> 3 (OK2213, Russia, MHA9001418)	MN030522	MN045089	MN045047	-	MN045133
<i>Anomodon attenuatus</i> 4 (OK2212, Russia, MHA9001316)	MN030521	MN045088	MN045046	-	MN045132
<i>Anomodon attenuatus</i> 5 (OK2170, Russia, MHA9001370)	MN030518	MN045085	MN045043	-	MN045129
<i>Anomodon attenuatus</i> 6 (OK2211, Russia, MHA9050311)	MN030520	MN045087	MN045045	-	MN045131
<i>Anomodon abbreviatus</i> (AnomF18, Japan, MW9075554)	MN030541	MN045083	MN045042	MN045014	MN045127
<i>Anomodon giraldii</i> 1 (OK2217, Russia, MHA9001740)	MN030523	MN045090	MN045048	MN045015	MN045134
<i>Anomodon giraldii</i> 2	FM161075	AM990342	FM210763	FM161240	-
<i>Anomodon giraldii</i> 3	KF770680	KF770572	-	-	KF770626
		&KF770518			
<i>Anomodon minor</i> (OK2286, Russia, MHA9001822)	MN030532	MN045095	MN045053	-	MN045138
<i>Anomodon solovjevii</i> (OK180, Russia, MW9001945)	MN030504	MN045096	MN045057	MN045022	MN045141
<i>Anomodon thraustus</i> 1 (OK618, Russia, MHA9002034)	MN030509	MN045097	MN045058	MN045023	MN045142
<i>Anomodon thraustus</i> 2 (AnomF1, Russia, MW9001855)	MN030538	MN045098	MN045058	MN045024	MN045143
<i>Anomodon viticulosus</i> 1 (OK2285, Russia, MHA9001940)	MN030531	MN045100	MN045061	-	MN045145
<i>Anomodon viticulosus</i> 2 (AnomF17, Russia, MW9078841)	MN030540	MN045102	MN045063	-	MN045147

Anomodon viticulosus 3 (OK2284, Russia, MHA9026998)	MN030530 MN045099	MN045060 MN045025 MN045144
Anomodon viticulosus 4 (AnomF16, Russia, MW9001996)	MN030539 MN045101	MN045062 - MN045146
Anomodon viticulosus 5	FM161076 AM990343	- FM161241 MK313879
Anomodon rugelii 1 (OK2312, Russia, MHA9001804)	MN030533 -	MN045054 MN045019 MN045139
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Anomodon rugelii 2 (OK2313, Russia, MHA9001791)	MN030534 -	MN045055 MN045020 -
Anomodon rugelii 3 (OK2315, Russia, MHA9001784)	MN030535 -	MN045056 MN045021 MN045140
Anomodon rugelii 4	- AF143023	- - -
	&AF161116	
Anomodon longifolius 1 (OK615, Russia, MHA9001614)	MN030508 MN045091	MN045049 - MN045135
Anomodon longifolius 2 (OK815, Russia, MHA9001578)	MN030511 MN045092	MN045050 MN045016 MN045136
Anomodon longifolius 3 (OK816, Russia, MHA9001577)	MN030512 MN045093	MN045051 MN045017 MN045137
Anomodon longifolius 4 (OK2317, Russia, MHA9001613-)	MN030536 MN045094	MN045052 MN045018 -
Heterocladium procurrens	FM161118 AM990379	FM160973 FM161274 -
Heterocladium dimorphum (AnomF20, Russia, MW9043337)	MN030543 MN045117	MN045076 MN045037 MN045162
Heterocladium dimorphum (AnomF21, Russia, MW9043335)	MN030544 MN045118	MN045077 MN045038 MN045163
Heterocladium dimorphum	FM161115 AM990376	FM160970 FM161271 MK313901
Heterocladium dimorphum (OK2222, Russia, MHA9035930)	MN030525 MN045116	MN045075 MN045036 MN045161
Heterocladium heteropterum (OK2224, Russia, MHA9033935)	MN030527 MN045120	MN045078 MN045039 MN045165
Heterocladium heteropterum (OK2223, Russia, MHA9035933)	MN030526 MN045119	- - MN045164
Heterocladium heteropterum	FM161116 AM990377	FM160971 FM161272 -
Heterocladium macounii	FM161117 AM990378	FM160972 FM161273 -
Heterocladium wulfsbergi (AnomF19 Norway, MW9110298)	MN030542 MN045121	MN045079 MN045040 MN045166
Homalia trichomanoides (OK2220, Russia, MHA9035997)	- MN045122**	MN045075 MN045041 MN045167
Homalia trichomanoides var. japonica (OK2219, Russia, MHA9036131)	MN030524	MN045124 - -
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Homalia trichomanoides (OK2320, Russia, Ignatov & Kolesnikova, 6.V.2019, MHA)	MN030537 MN045123	MN045080 MN045041 MN045168
Homalia trichomanoides (OK2319, Russia, MHA9036045)	- -	MN045081 - -
Homalia trichomanoides	FM161126 AM990385*	FM160980 FM161280 -
Homali dendron papillosum	- -	- HQ607390 -
Pseudomalina webbiana	FM161127 AM990387	FM160982 FM161282 -
Iwatsukiella leucotricha (OK2283, Russia, MHA9038437)	MN030529 MN045125	- AY908740 MK313946
Homalothecium sericeum	FM161136 AM990392*	EF531061 FM161287 MK541260
Meteorium polytrichum	FM161153 AM990410*	FM161000 FM161302 -
Neckera himalayana	FM161163 FM210301	FM161010 FM882223 -
Neckera pennata	FM161169 AM990414	FM161016 AY908652 MN045169
Neckera menziesii	FM161167 AY908264	FM161014 AY908648 MN045170
	&FM210305	
Alleniella complanata	FM161158 AM990413	FM161005 FM161305 -
Neckera polyclada	FM161170 FM882220	FM161017 FM882224 -
Orthostichella rigida	FM161185 AM990422	FM161032 FM161312 -
Orthostichella versicolor	LR130198 LR130210	LR130223 LR130230 -
Leucodon sciuroides	FM161149 AM990405*	FM160998 AY908716 MK313948
Prionodon densus	FM161205 AM990432*	FM161049 AY908718 -
Abietinella abietina	JX853713 JX853716	- AY908386 AF322308
	&JX853719	
Helodium blandowii	AY009803 AY908339	- AY908393 AF322313
	&AY009852	
Boulaya mittenii	FM161080 AM990347*	- FM161244 -
Pseudoleskeopsis zippelii	FM161206 AM990433	- FM161324 -
Pseudoleskeopsis zippelii (OK2282, Japan, MHA9056630)	MN030528 MN045126	- - -
Dolichomitriopsis diversiformis	FM161098 AY908329	AM990362 AF397777 -
Isothecium myosuroides	DQ294922 AM990400*	FM160995 FM161294 MK313945
Nogopterium gracile	LS999114 LR130213*	LS999092 LS999066 HQ268444
Lembophyllum divilsum	FM161146 AM990402*	- FM161296 -
Andoa berthelotiana	FM161074 AM990341	FM160947 FM161239 MK313878
Straminergon stramineum	FM161213 AM990351	FM161053 LN714274 AF322349
Touwia elliptica	FM161220 FM210325*	FM161058 - -
Thamnobryum neckeroides	FM161224 FM201509*	FM161062 LS999070 -
Thamnomania thumidicaulis	FM161231 AM990447	FM161068 FM161337 -
Touwia laticostata	FM161233 FM882221	FM161070 FM882225 -
	&FM210330	

