

**Table S1:** Sampling ratio of all included genera of Ceutorhynchinae. Total number of described species (Total), number of species included in our dataset (Dataset), sampling ratio (Ratio), and missing species numbers (Missing) are provided.

<b>Genus</b>	<b>Total</b>	<b>Dataset</b>	<b>Ratio</b>	<b>Missing</b>
<i>Amalorrhynchus</i>	2	1	0.50	1
<i>Amalus</i>	1	1	1.00	0
<i>Aphytobius</i>	7	2	0.29	5
<i>Auleutes</i>	8	1	0.13	7
<i>Brachiodontus</i>	6	1	0.17	5
<i>Ceutorhynchoides</i>	9	1	0.11	8
<i>Ceutorhynchus</i>	407	69	0.17	338
<i>Cnemogonus</i>	1	1	1.00	0
<i>Coeliastes</i>	3	1	0.33	2
<i>Coelioderes</i>	26	2	0.08	24
<i>Coeliodes</i>	34	6	0.18	28
<i>Coeliodinus</i>	7	1	0.14	6
<i>Cyphosenus</i>	10	1	0.10	9
<i>Datonychidius</i>	2	1	0.50	1
<i>Datonychus</i>	20	4	0.20	16
<i>Drupenatus</i>	1	1	1.00	0
<i>Eubrychius</i>	1	1	1.00	0
<i>Euhrychiopsis</i>	1	1	1.00	0
<i>Glocianus</i>	28	4	0.14	24
<i>Hadroplontus</i>	3	3	1.00	0
<i>Hainokisaruzo</i>	10	1	0.10	9
<i>Hesperorrhynchus</i>	5	3	0.60	2
<i>Homorosoma</i>	8	1	0.13	7
<i>Marmaropus</i>	1	1	1.00	0
<i>Mesoxyonyx</i>	5	1	0.20	4
<i>Micrelus</i>	20	2	0.10	18
<i>Microplontus</i>	18	4	0.22	14
<i>Mogulones</i>	67	18	0.27	49
<i>Mogulonoides</i>	1	1	1.00	0
<i>Mononychus</i>	3	1	0.33	2
<i>Nedyus</i>	3	1	0.33	2
<i>Neoglocianus</i>	6	2	0.33	4
<i>Neophytobius</i>	10	1	0.10	9
<i>Oprohinus</i>	9	2	0.22	7
<i>Parauleutes</i>	8	1	0.13	7
<i>Parethelcus</i>	2	2	1.00	0
<i>Paroxyonyx</i>	8	7	0.88	1
<i>Pelenomus</i>	24	4	0.17	20
<i>Phrydiuchus</i>	5	4	0.80	1
<i>Phytobius</i>	4	1	0.25	3
<i>Poophagus</i>	3	1	0.33	2
<i>Ranunculiphilus</i>	6	1	0.17	5
<i>Rhinoncus</i>	36	7	0.19	29
<i>Rutidosoma</i>	2	1	0.50	1
<i>Scleropteridius</i>	3	1	0.33	2
<i>Scleropteroides</i>	1	1	1.00	0
<i>Scleropterus</i>	6	1	0.17	5
<i>Sirocalodes</i>	19	4	0.21	15
<i>Stenocarus</i>	3	2	0.67	1
<i>Tapeinotus</i>	1	1	1.00	0
<i>Thamiocolus</i>	40	9	0.23	31
<i>Trichocoeliodes</i>	2	1	0.50	1
<i>Trichosirocalus</i>	17	6	0.35	11
<i>Wagnerinus</i>	4	3	0.75	1
<i>Xenysmoderes</i>	26	2	0.08	24
<i>Zacladus</i>	7	2	0.29	5

**Table S2:** Taxon sampling including NCBI genbank accession numbers. Tissue and DNA samples of included specimens (except for GenBank-derived sequences) are available from the biobank of the Zoologisches Forschungsmuseum A. Koenig (ZFMK) Bonn, Germany and the Department of Botany and Biodiversity Research, University of Vienna, Austria. Accession numbers with (\*) refer to the 3' end fragment of the non-barcoding region of the COI. Barcode fragments of these sequences are to be released soon to GenBank within the Molecular Weevil Identification project. They are currently available upon request from the ZFMK biobank.

Subfamily	Tribus	Species	COI	EF1	16S	28S
<b>Nemonychidae</b>						
Rhinorhynchinae	Mecomacerini	<i>Rhynchitomacerinus kuscheli</i>	FJ867805	FJ867890	-	FJ867708
Cimberidinae	Cimberidini	<i>Cimberis pilosa</i>	FJ867848	FJ867860	-	FJ867673
<b>Anthribidae</b>						
Anthribinae	Platystomini	<i>Phloeobius gigas</i>	KF016204	-	KF016340	-
	Sintorini	<i>Telala</i> sp	KF016238	-	KF016371	KF016510
Urodontinae	Ecelonerini	<i>Eupanteos ornatus</i>	KF016230	-	KF016366	KF016502
		<i>Dendropemon albopictus</i>	KF016203	-	KF016339	KF016472
		<i>Urodontus mesemoides</i>	FJ867818	FJ867897	-	FJ867725
		<i>Urodontellus</i> sp	KF016202	-	KF016338	KF016471
<b>Attelabidae</b>						
Attelabinae	Attelabini	<i>Attelabus nitens</i>	KM452306/ HQ164855	-	-	-
Rhynchitinae	Deporaini	<i>Deporaus betulae</i>	KM452447/ HQ165347	-	-	AB970607
Apoderinae	Apoderini	<i>Apoderus jekelii</i>	HQ883611	HQ883697	-	HQ883529
<b>Belidae</b>						
Belinae		<i>Cyrotiphys</i> sp	KF016233	-	KF016367	KF016505
<b>Brentidae</b>						
Brentinae	Arrhenodini	<i>Ectocemus decemmaculatus</i>	KF016163	-	KF016289	KF016425
	Eremoxenini	<i>Kleineella barbata</i>	KF016164	-	KF016290	KF016426
	Cyladini	<i>Cylas formicarius</i>	FJ867849/E U522676	FJ867862	AJ495572	FJ867676
Eurhynchinae	Eurhynchini	<i>Aporhina australis</i>	FJ867840	-	-	FJ867657
Nanophyinae	Nanophyini	<i>Nanodiscus transversus</i>	KY084067	KY083826	KY084219	KY084006
		<i>Hypophyes pallidulus</i>	KY084057	KY083818	KY084204	-
		<i>Antliarhininae</i>	Antliarhinini	<i>Antliarhis zamiae</i>	FJ867838	FJ867853
Apioninae	Rhinorhynchidiini	<i>Rhinorhynchidius australasiae</i>	KF016159	-	KF016286	KF016421
	Apionini	<i>Perapion neofallax</i>	KY084071	KY083833	KY084228	KY084014
		<i>Protapion dissimile</i>	KY084075	KY083832	KY084227	KY084013
		<i>Rhopalapion longirostre</i>	KY084115	KY083777	KY084149	KY083943
<b>Curculionidae</b>						
Dryophthorinae	Rhynchophorini	<i>Dynamis borassi</i>	AY131106	AY131134	-	AY131076
Brachycerinae	Himasthlophallini	<i>Himasthlophallus flagellifer</i>	HQ883655	HQ883730	-	HQ883569
Molytinae	Amorphocerini	<i>Amorphocerus rufipes</i>	HQ883665	HQ883736	-	HQ883575
Hylobiinae	Hyperini	<i>Hypera meles</i>	MH458432	-	-	-
		<i>Hypera postica</i>	MH458433	-	-	-
Entiminae	Otiorhynchini	<i>Otiorhynchus ligustici</i>	MH458434	-	-	-
		<i>Otiorhynchus pinastri</i>	MH458435	-	-	-
Curculioninae	Curculionini	<i>Curculio camelliae</i>	AB573507	AY327652	-	AB573470
Ceutorhynchinae	Mononychini	<i>Mononychus punctumalbum</i>	MH433523*	MH433392	MH433106	MH433256
		<i>Amalus scortillum</i>	MH433452*	MH433339	MH433034	MH433190
	Amalini	<i>Aphytobius sphaerion</i>	-	-	MH433035	MH433191
		<i>Aphytobius veronicae</i>	MH433453*	MH433340	MH433036	MH433192
		<i>Eubrychius velutus</i>	MH433519*	MH433390	MH433102	MH433253
	Phytobiini	<i>Euhrychiopsis lecontei</i>	KJ203066*	-	-	-
		<i>Pelenomus canaliculatus</i>	MH433569*	MH433423	MH433152	MH433302
		<i>Pelenomus commari</i>	MH433570*	-	MH433153	MH433303
		<i>Pelenomus quadrituberculatus</i>	KJ963126	-	-	-
		<i>Pelenomus velaris</i>	MH433580*	-	MH433163	MH433313
		<i>Phytobius leucogaster</i>	MH433574*	-	MH433157	MH433307
		<i>Neophytobius granatus</i>	MH433563*	-	MH433146	MH433296
		<i>Rhinoncus albicinctus</i>	MH433581*	MH433429	MH433164	MH433314
	<i>Rhinoncus bruchoides</i>	MH433532*	-	MH433115	MH433264	
	<i>Rhinoncus castor</i>	MH433582*	MH433430	MH433165	MH433315	
<i>Rhinoncus henningsi</i>	MH433584*	MH433432	MH433167	MH433317		

Subfamily	Tribus	Species	COI	EF1	16S	28S
		<i>Rhinoncus inconspicuos</i>	MH433585*	MH433433	MH433168	MH433318
		<i>Rhinoncus pericarpus</i>	MH458431	MH433398	MH433112	-
		<i>Rhinoncus perpendicularatus</i>	MH433529*	MH433399	MH433113	MH433262
		<i>Marmaropus bessei</i>	MH433540*	-	-	MH433272
	Scleropterini	<i>Rutidosoma globulus</i>	-	MH433400	-	-
		<i>Scleropteridius fallax</i>	-	MH433435	-	MH433320
		<i>Scleropterus serratus</i>	-	MH433438	AB232979	MH433323
		<i>Scleropterides hypocrita</i>	MH458423	-	AB232980	-
		<i>Tapeinotus sellatus</i>	MH433594*	-	AB232981	MH433330
		<i>Brachiodontus reitteri</i>	MH433454*	-	MH433038	MH433193
		<i>Homorosoma validirostre</i>	MH433535*	MH433405	MH433118	MH433267
	Mecysmoderini	<i>Xenysmoderes consularis</i>	MH458422	-	MH433188	-
		<i>Coelioderes nigrinus</i>	MH458425	-	AB232978	-
	Egriini	<i>Cyphosenus grouvellei</i>	-	-	AB232977	-
	Cnemogonini	<i>Cnemogonus</i> sp	JF888214	-	-	-
		<i>Auleutes epilobii</i>	JF888244	-	-	-
		<i>Parauleutes nebulosus</i>	HQ989957	-	-	-
	Coeliadini	<i>Coeliodes dryados</i>	GU981474	-	-	-
		<i>Coeliodes nakanoensis</i>	-	-	AB232961	-
		<i>Coeliodes rana</i>	MH433493*	-	MH433079	MH433231
		<i>Coeliodes ruber</i>	MH433497*	-	-	MH433235
		<i>Coeliodes transversealbofasciatus</i>	MH433508*	-	MH433093	MH433246
		<i>Coelioidinus rubicundus</i>	MH433498*	MH433382	MH433083	MH433236
		<i>Trichocoeliodes excavatus</i>	-	-	AB232970	-
	Oxyonychini	<i>Barioxyonyx kerzhneri</i>	MH458427	-	MH433037	-
		<i>Barioxyonyx retectus</i>	MH433455*	-	MH433039	MH433194
		<i>Barioxyonyx tournieri</i>	MH433455*	-	MH433039	MH433194
		<i>Mesoxonyx sicardi</i>	MH433456*	-	MH433040	MH433195
		<i>Paroxyonyx audisioi</i>	MH433567*	MH433421	-	MH433300
		<i>Paroxyonyx cinctus</i>	MH433573*	-	MH433156	MH433306
		<i>Paroxyonyx fallaciosus</i>	MH433571*	-	MH433154	MH433304
		<i>Paroxyonyx imitator</i>	MH433572*	-	MH433155	MH433305
		<i>Paroxyonyx petrae</i>	MH458429	-	-	-
		<i>Paroxyonyx</i> sp	MH458430	-	MH433150	-
	Ceutorhynchini	<i>Amalorrhynchus melanarius</i>	HQ164845	EU111040	-	-
		<i>Ceutorhynchoides styracis</i>	-	-	AB232958	-
		<i>Ceutorhynchus aeneicollis</i>	MH433457*	MH433341	MH433041	MH433196
		<i>Ceutorhynchus alliariae</i>	MH433458*	MH433342	MH433042	MH433197
		<i>Ceutorhynchus alyssi</i>	MH433459*	MH433343	MH433043	MH433198
		<i>Ceutorhynchus arator</i>	MH433460*	MH433344	MH433044	MH433199
		<i>Ceutorhynchus assimilis</i>	MH433461*	MH433345	MH433045	MH433200
		<i>Ceutorhynchus atomus</i>	MH433462*	MH433346	MH433046	MH433201
		<i>Ceutorhynchus barbarae</i>	KJ964086	-	-	-
		<i>Ceutorhynchus canariensis</i>	MH433463*	MH433347	MH433047	MH433202
		<i>Ceutorhynchus carinatus</i>	MH433464*	MH433348	MH433048	MH433203
		<i>Ceutorhynchus chalybaeus</i>	MH433465*	MH433349	MH433049	MH433204
		<i>Ceutorhynchus chlorophanus</i>	MH433466*	MH433350	MH433050	MH433205
		<i>Ceutorhynchus cochleriae</i>	KU917063	MH433402	-	-
		<i>Ceutorhynchus coeruleascens</i>	MH433467*	MH433351	MH433051	MH433206
		<i>Ceutorhynchus constrictus</i>	EU110955	MH433352	-	-
		<i>Ceutorhynchus contractus</i>	MH433468*	MH433353	MH433052	MH433207
		<i>Ceutorhynchus dubius</i>	MH433469*	MH433354	MH433053	MH433208
		<i>Ceutorhynchus erysimi</i>	MH433525*	-	-	-
		<i>Ceutorhynchus fallax</i>	DQ058699	-	-	-
		<i>Ceutorhynchus filirostris</i>	DQ058701	DQ058709	-	-
		<i>Ceutorhynchus gallorhenanus</i>	DQ058700	-	-	-
		<i>Ceutorhynchus granulicollis</i>	MH433470*	MH433355	MH433054	MH433209
		<i>Ceutorhynchus hampei</i>	MH433471*	MH433356	MH433055	MH433210
		<i>Ceutorhynchus hirtulus</i>	MH433472*	MH433357	MH433056	MH433211
		<i>Ceutorhynchus ignitus</i>	MH433473*	MH433358	MH433057	MH433212
		<i>Ceutorhynchus inaeffectatus</i>	KJ966958	-	-	-
		<i>Ceutorhynchus intersetosus</i>	MH433474*	MH433359	MH433058	MH433213
		<i>Ceutorhynchus jucundus</i>	KC783783	MH433360	MH433059	MH433214
		<i>Ceutorhynchus leprieuri</i>	MH433476*	MH433362	MH433061	MH433216
		<i>Ceutorhynchus leucorrhama</i>	MH433477*	MH433363	MH433062	MH433217

Subfamily	Tribus	Species	COI	EF1	16S	28S
		<i>Ceutorhynchus libertorum</i>	MH433478*	MH433364	MH433063	MH433218
		<i>Ceutorhynchus liliputanus</i>	MH433479*	MH433365	MH433064	-
		<i>Ceutorhynchus lukesi</i>	-	MH433366	MH433065	-
		<i>Ceutorhynchus merkli</i>	MH433480*	MH433367	MH433066	MH433219
		<i>Ceutorhynchus moraviensis</i>	MH433481*	MH433368	MH433067	MH433220
		<i>Ceutorhynchus napi</i>	MH433482*	MH433369	MH433068	MH433221
		<i>Ceutorhynchus neglectus</i>	DQ058697	DQ058707	-	-
		<i>Ceutorhynchus nevadensis</i>	MH433483*	MH433370	MH433069	MH433222
		<i>Ceutorhynchus niyazii</i>	MH433484*	MH433371	MH433070	MH433223
		<i>Ceutorhynchus obstructus</i>	MH433524*	MH433394	MH433108	MH433258
		<i>Ceutorhynchus pallidactylus</i>	MH433536*	MH433406	MH433119	MH433268
		<i>Ceutorhynchus paroliniae</i>	KU366275	-	-	-
		<i>Ceutorhynchus parvulus</i>	MH433485*	MH433372	MH433071	MH433224
		<i>Ceutorhynchus pectoralis</i>	MH433486*	MH433373	MH433072	MH433225
		<i>Ceutorhynchus pervicax</i>	MH433487*	MH433374	MH433073	MH433226
		<i>Ceutorhynchus picitarsis</i>	MH433488*	MH433375	MH433074	MH433227
		<i>Ceutorhynchus pulvinatus</i>	MH433489*	MH433376	MH433075	MH433228
		<i>Ceutorhynchus pumilio</i>	MH433490*	MH433377	MH433076	-
		<i>Ceutorhynchus puncticollis</i>	MH433491*	MH433378	MH433077	MH433229
		<i>Ceutorhynchus pyrrhorhynchus</i>	MH433492*	MH433379	MH433078	MH433230
		<i>Ceutorhynchus querceti</i>	DQ058704	-	-	-
		<i>Ceutorhynchus rapae</i>	MH433494*	MH433380	MH433080	MH433232
		<i>Ceutorhynchus resedae</i>	MH433495*	-	MH433081	MH433233
		<i>Ceutorhynchus rhenanus</i>	KU932046*	-	-	-
		<i>Ceutorhynchus roberti</i>	MH433496*	MH433381	MH433082	MH433234
		<i>Ceutorhynchus sardeanensis</i>	MH433499*	MH433383	MH433084	MH433237
		<i>Ceutorhynchus scrobicollis</i>	MH433500*	MH433384	MH433085	MH433238
		<i>Ceutorhynchus sisymbrii</i>	MH433501*	MH433385	MH433086	MH433239
		<i>Ceutorhynchus squamulosus</i>	MH433502*	-	MH433087	MH433240
		<i>Ceutorhynchus striatellus</i>	MH433503*	MH433386	MH433088	MH433241
		<i>Ceutorhynchus subpubescens</i>	DQ058696	-	-	-
		<i>Ceutorhynchus sulcatus</i>	KU932047	-	-	-
		<i>Ceutorhynchus sulcicollis</i>	MH433504*	MH433387	MH433089	MH433242
		<i>Ceutorhynchus syrites</i>	MH433505*	MH433388	MH433090	MH433243
		<i>Ceutorhynchus tangerianus</i>	MH433506*	MH433389	MH433091	MH433244
		<i>Ceutorhynchus thomsoni</i>	KJ963985	-	-	-
		<i>Ceutorhynchus tibialis</i>	MH433507*	-	MH433092	MH433245
		<i>Ceutorhynchus turbatus</i>	MH433509*	-	MH433094	MH433247
		<i>Ceutorhynchus typhae</i>	MH433526*	MH433395	MH433109	MH433259
		<i>Ceutorhynchus varius</i>	MH433510*	-	-	MH433248
		<i>Ceutorhynchus wagneri</i>	MH433511*	-	MH433095	MH433249
		<i>Coeliastes lamii</i>	MH433475*	MH433361	MH433060	MH433215
		<i>Datonychidius tener</i>	MH433518*	-	MH433101	MH433252
		<i>Datonychus delicatulus</i>	MH433513*	-	MH433096	-
		<i>Datonychus maurus</i>	MH433514*	-	MH433097	-
		<i>Datonychus melanostictus</i>	MH433515*	-	MH433098	MH433250
		<i>Datonychus paszlavszkyi</i>	MH433517*	-	MH433100	MH433251
		<i>Drupenatus nasturtii</i>	MH433516*	-	MH433099	-
		<i>Glocianus distinctus</i>	MH433520*	-	MH433103	MH433254
		<i>Glocianus fennicus</i>	KJ963154	-	-	-
		<i>Glocianus granulithorax</i>	MH433521*	-	MH433104	-
		<i>Glocianus punctiger</i>	MH433531*	MH433401	MH433114	MH433263
		<i>Hadroplontus ancora</i>	-	-	AB232964	-
		<i>Hadroplontus litura</i>	MH433533*	MH433533	MH433533	MH433533
		<i>Hadroplontus trimaculatus</i>	HQ164961	-	-	-
		<i>Hainokisaruzo japonicus</i>	-	-	AB232965	-
		<i>Hesperorrhynchus hesperus</i>	MH433533*	-	-	-
		<i>Hesperorrhynchus incautus</i>	KT823495	-	-	-
		<i>Hesperorrhynchus phytobioides</i>	MH433534*	MH433404	MH433117	MH433266
		<i>Micrelus ericae</i>	MH433546*	MH433414	MH433129	MH433279
		<i>Micrelus ferrugatus</i>	MH433547*	-	MH433130	MH433280
		<i>Microplontus campestris</i>	MH433541*	-	MH433124	MH433274
		<i>Microplontus melanostigma</i>	MH433552*	-	MH433135	MH433285
		<i>Microplontus millefolii</i>	MH433553*	-	MH433136	MH433286
		<i>Microplontus rugulosus</i>	MH433558*	-	MH433142	MH433291



Subfamily	Tribus	Species	COI	EF1	16S	28S
		<i>Mogulones abbreviatus</i>	MH433537*	MH433407	MH433120	MH433269
		<i>Mogulones asperifoliarum</i>	MH433538*	MH433408	MH433121	MH433270
		<i>Mogulones austriacus</i>	MH433539*	MH433409	MH433122	MH433271
		<i>Mogulones biondii</i>	KC783733	-	MH433123	MH433273
		<i>Mogulones cingulatus</i>	MH433542*	MH433410	MH433125	MH433275
		<i>Mogulones crucifer</i>	MH433543*	MH433411	MH433126	MH433276
		<i>Mogulones cynoglossi</i>	MH433544*	MH433412	MH433127	MH433277
		<i>Mogulones dimidiatus</i>	MH433545*	MH433413	MH433128	MH433278
		<i>Mogulones geographicus</i>	MH433548*	MH433415	MH433131	MH433281
		<i>Mogulones graciosus</i>	MH433549*		MH433132	MH433282
		<i>Mogulones grisescens</i>	MH433550*		MH433133	MH433283
		<i>Mogulones larvatus</i>	MH433551*	MH433416	MH433134	MH433284
		<i>Mogulones pallidicornis</i>	MH433554*	MH433417	MH433137	MH433287
		<i>Mogulones peregrinus</i>	MH433555*		MH433138	MH433288
		<i>Mogulones pseudopollinarius</i>	KM433740		MH433139	MH433289
		<i>Mogulones raphani</i>	MH433557*		MH433141	MH433290
		<i>Mogulones soricinus</i>	MH433560*		MH433144	MH433293
		<i>Mogulones uncipes</i>	MH433561*	MH433418	MH433145	MH433294
		<i>Mogulonoides radula</i>	MH433556*	-	MH433140	-
		<i>Nedyus quadrimaculatus</i>	KU919480	MH433393	MH433107	MH433257
		<i>Neoglocianus albovittatus</i>	MH433562*	MH433419	-	MH433295
		<i>Neoglocianus maculaalba</i>	MH433564*	-	MH433147	MH433297
		<i>Oprohinus consputus</i>	MH433565*	-	MH433148	MH433298
		<i>Oprohinus suturalis</i>	MH433566*	MH433420	MH433149	MH433299
		<i>Parethelcus nescicola</i>	MH433575*	MH433424	MH433158	MH433308
		<i>Parethelcus pollinarius</i>	MH433522*	MH433391	MH433105	MH433255
		<i>Phrydiuchus augusti</i>	MH433568*	MH433422	MH433151	MH433301
		<i>Phrydiuchus quijote</i>	MH433576*	MH433425	MH433159	MH433309
		<i>Phrydiuchus tau</i>	KP306843	-	-	-
		<i>Phrydiuchus topiarius</i>	MH433579*	MH433428	MH433162	MH433312
		<i>Poophagus sisymbrii</i>	MH433577*	MH433426	MH433160	MH433310
		<i>Ranunculiphilus faeculentus</i>	MH433583*	MH433431	MH433166	MH433316
		<i>Sirocalodes depressicollis</i>	MH433587*	MH433434	MH433169	MH433319
		<i>Sirocalodes mixtus</i>	MH433588*	MH433436	MH433170	MH433321
		<i>Sirocalodes nigroterminatus</i>	MH433589*	-	MH433171	-
		<i>Sirocalodes umbrinus</i>	-	-	AB232968	-
		<i>Stenocarus cardui</i>	MH433528*	MH433397	MH433111	MH433261
		<i>Stenocarus ruficornis</i>	MH433590*	MH433437	MH433172	MH433322
		<i>Thamiocolus garajonay</i>	MH433591*	MH433440	MH433174	MH433325
		<i>Thamiocolus grancanariensis</i>	MH433592*	-	MH433175	MH433326
		<i>Thamiocolus kraatzi</i>	-	-	AB232969	-
		<i>Thamiocolus niveus</i>	MH433593*	MH433442	MH433178	MH433329
		<i>Thamiocolus signatus</i>	MH433595*	MH433443	MH433179	MH433331
		<i>Thamiocolus sinapis</i>	KC783848	MH433444	MH433180	MH433332
		<i>Thamiocolus viduatus</i>	MH433597*	MH433448	MH433184	MH433335
		<i>Thamiocolus virgatus</i>	KM433745	MH433449	MH433185	MH433336
		<i>Thamiocolus wollastoni</i>	KM433748	MH433450	MH433186	MH433337
		<i>Trichosirocalus barnevillei</i>	-	MH433439	MH433173	MH433324
		<i>Trichosirocalus histrix</i>	-	-	MH433176	MH433327
		<i>Trichosirocalus horridus</i>	KU919126	MH433441	MH433177	MH433328
		<i>Trichosirocalus spurnyi</i>	-	MH433445	MH433181	MH433333
		<i>Trichosirocalus thalhammeri</i>	-	MH433446	MH433182	MH433334
		<i>Trichosirocalus troglodytes</i>	MH433596*	MH433447	MH433183	-
		<i>Zacladus exiguus</i>	KM442028	MH433403	MH433116	MH433265
		<i>Zacladus geranii</i>	MH433598*	MH433451	MH433189	MH433338
		<i>Wagnerinus costatus</i>	-	-	AB232971	-
		<i>Wagnerinus frugivorus</i>	AB250208	-	-	-
		<i>Wagnerinus harmandi</i>	MH458421	-	MH433187	-

**Table S2.1:** Voucher IDs of all specimens provided by the Molecular Weevil Identification project.

Species	Tissue ID	DNA Sample ID
<i>Amalus scortillum</i>	ZFMK-TIS-20134	ZFMK-DNA-0100438735
<i>Aphytobius sphaerion</i>	ZFMK-TIS-3442	ZFMK-DNA-0100449591
<i>Aphytobius veronicae</i>	ZFMK-TIS-3486	ZFMK-DNA-0100449558
<i>Barioxyonyx resectus</i>	ZFMK-TIS-3436	ZFMK-DNA-0100449608
<i>Barioxyonyx tournieri</i>	ZFMK-TIS-3624	ZFMK-DNA-0155635653
<i>Brachiodontus reitteri</i>	ZFMK-TIS-3553	ZFMK-DNA-0100426067
<i>Ceutorhynchus aeneicollis</i>	ZFMK-TIS-4135	ZFMK-DNA-0100426157
<i>Ceutorhynchus alliariae</i>	ZFMK-TIS-2D100438525	ZFMK-DNA-0100439821
<i>Ceutorhynchus alyssi</i>	ZFMK-TIS-3633	ZFMK-DNA-0155635644
<i>Ceutorhynchus arator</i>	ZFMK-TIS-20126	ZFMK-DNA-0100438754
<i>Ceutorhynchus assimilis</i>	ZFMK-TIS-3414	ZFMK-DNA-0100449630
<i>Ceutorhynchus atomus</i>	ZFMK-TIS-3131	ZFMK-DNA-0100426947
<i>Ceutorhynchus canariensis</i>	ZFMK-TIS-23883	ZFMK-DNA-0100448123
<i>Ceutorhynchus carinatus</i>	ZFMK-TIS-20124	ZFMK-DNA-0100438752
<i>Ceutorhynchus chalybaeus</i>	ZFMK-TIS-2D100446111	ZFMK-DNA-0100437874
<i>Ceutorhynchus chlorophanus</i>	ZFMK-TIS-20130	ZFMK-DNA-0100438739
<i>Ceutorhynchus coeruleus</i>	ZFMK-TIS-3686	ZFMK-DNA-0155635588
<i>Ceutorhynchus contractus</i>	ZFMK-TIS-4195	ZFMK-DNA-0155628512
<i>Ceutorhynchus dubius</i>	ZFMK-TIS-20178	ZFMK-DNA-0100449039
<i>Ceutorhynchus granulicollis</i>	ZFMK-TIS-3489	ZFMK-DNA-0100449107
<i>Ceutorhynchus hampei</i>	ZFMK-TIS-20135	ZFMK-DNA-0100438734
<i>Ceutorhynchus hirtulus</i>	ZFMK-TIS-3476	ZFMK-DNA-0100449577
<i>Ceutorhynchus ignitus</i>	ZFMK-TIS-20093	ZFMK-DNA-0100438769
<i>Ceutorhynchus inaeffectatus</i>	ZFMK-TIS-2531152	ZFMK-DNA-0171676603
<i>Ceutorhynchus intersetosus</i>	ZFMK-TIS-3425	ZFMK-DNA-0100449622
<i>Ceutorhynchus jucundus</i>	ZFMK-TIS-2D100446904	ZFMK-DNA-0100438046
<i>Ceutorhynchus leprieuri</i>	-	ZFMK-DNA-0100437869
<i>Ceutorhynchus leucorrhama</i>	ZFMK-TIS-3422	ZFMK-DNA-0100449619
<i>Ceutorhynchus libertorum</i>	ZFMK-TIS-20142	ZFMK-DNA-0100438936
<i>Ceutorhynchus liliputanus</i>	ZFMK-TIS-3492	ZFMK-DNA-0100449108
<i>Ceutorhynchus lukei</i>	ZFMK-TIS-20286	ZFMK-DNA-0100448478
<i>Ceutorhynchus merkli</i>	ZFMK-TIS-3459	ZFMK-DNA-0100449585
<i>Ceutorhynchus moraviensis</i>	ZFMK-TIS-4196	ZFMK-DNA-0155628513
<i>Ceutorhynchus napi</i>	ZFMK-TIS-3643	ZFMK-DNA-0155635641
<i>Ceutorhynchus nevadensis</i>	ZFMK-TIS-3516	ZFMK-DNA-0100426097
<i>Ceutorhynchus niyazii</i>	ZFMK-TIS-3466	ZFMK-DNA-0100449567
<i>Ceutorhynchus parvulus</i>	ZFMK-TIS-3684	ZFMK-DNA-0155635586
<i>Ceutorhynchus pectoralis</i>	ZFMK-TIS-4231	ZFMK-DNA-0155630487
<i>Ceutorhynchus pervicax</i>	ZFMK-TIS-3141	ZFMK-DNA-0100426874
<i>Ceutorhynchus picitarsis</i>	ZFMK-TIS-3467	ZFMK-DNA-0100449568
<i>Ceutorhynchus pulvinatus</i>	ZFMK-TIS-20096	ZFMK-DNA-0100438772
<i>Ceutorhynchus pumilio</i>	ZFMK-TIS-3158	ZFMK-DNA-0100426843
<i>Ceutorhynchus puncticollis</i>	ZFMK-TIS-20094	ZFMK-DNA-0100438770
<i>Ceutorhynchus pyrrhorhynchus</i>	ZFMK-TIS-3195	ZFMK-DNA-0100426928
<i>Ceutorhynchus rapae</i>	ZFMK-TIS-3641	ZFMK-DNA-0155635639
<i>Ceutorhynchus resedae</i>	ZFMK-TIS-3167	ZFMK-DNA-0100426837
<i>Ceutorhynchus roberti</i>	ZFMK-TIS-20089	ZFMK-DNA-0100438966
<i>Ceutorhynchus sardeanensis</i>	ZFMK-TIS-3574	ZFMK-DNA-0100426046
<i>Ceutorhynchus scrobicollis</i>	ZFMK-TIS-3153	ZFMK-DNA-0100426851
<i>Ceutorhynchus sisymbrii</i>	ZFMK-TIS-3687	ZFMK-DNA-0155635589
<i>Ceutorhynchus squamulosus</i>	ZFMK-TIS-4113	ZFMK-DNA-0100426300
<i>Ceutorhynchus striatellus</i>	ZFMK-TIS-20141	ZFMK-DNA-0100438721
<i>Ceutorhynchus sulcicollis</i>	ZFMK-TIS-3515	ZFMK-DNA-0100426096

<i>Ceutorhynchus syrites</i>	ZFMK-TIS-3642	ZFMK-DNA-0155635640
<i>Ceutorhynchus tangerianus</i>	ZFMK-TIS-3417	ZFMK-DNA-0100449627
<i>Ceutorhynchus tibialis</i>	ZFMK-TIS-3419	ZFMK-DNA-0100449616
<i>Ceutorhynchus turbatus</i>	ZFMK-TIS-2D100439107	ZFMK-DNA-0100439779
<i>Ceutorhynchus typhae</i>	ZFMK-TIS-3202	ZFMK-DNA-0100426791
<i>Ceutorhynchus varius</i>	ZFMK-TIS-20118	ZFMK-DNA-0100438746
<i>Ceutorhynchus wagneri</i>	ZFMK-TIS-20127	ZFMK-DNA-0100438742
<i>Ceutorhynchus wellschmiedi</i>	ZFMK-TIS-3656	ZFMK-DNA-0155635621
<i>Coeliastes lamii</i>	ZFMK-TIS-20087	ZFMK-DNA-0100438919
<i>Coeliodes rana</i>	ZFMK-TIS-3127	ZFMK-DNA-0100426282
<i>Coeliodes ruber</i>	ZFMK-TIS-3126	ZFMK-DNA-0100426878
<i>Coeliodes transversealbofasciatus</i>	ZFMK-TIS-4668	ZFMK-DNA-0155628554
<i>Coeliodinus rubicundus</i>	ZFMK-TIS-3292	ZFMK-DNA-0155633297
<i>Datonychidius tener</i>	ZFMK-TIS-3583	ZFMK-DNA-0100426037
<i>Datonychus delicatulus</i>	ZFMK-TIS-2D100440235	ZFMK-DNA-0100438123
<i>Datonychus maurus</i>	ZFMK-TIS-3571	ZFMK-DNA-0100426056
<i>Datonychus melanostictus</i>	ZFMK-TIS-3871	ZFMK-DNA-0100449653
<i>Datonychus paszlawskyi</i>	ZFMK-TIS-3462	ZFMK-DNA-0100449582
<i>Drupenatus nasturtii</i>	ZFMK-TIS-3569	ZFMK-DNA-0100426243
<i>Eubrychius velutus</i>	ZFMK-TIS-20154	ZFMK-DNA-0100438715
<i>Glocianus distinctus</i>	ZFMK-TIS-3534	ZFMK-DNA-0100426086
<i>Glocianus granulithorax</i>	ZFMK-TIS-3570	ZFMK-DNA-0100426055
<i>Hesperorrhynchus hesperus</i>	ZFMK-TIS-2D100446954	ZFMK-DNA-0100438026
<i>Hesperorrhynchus phytobioides</i>	ZFMK-TIS-3577	ZFMK-DNA-0100426043
<i>Homorosoma validirostre</i>	ZFMK-TIS-3460	ZFMK-DNA-0100449584
<i>Marmaropus besseri</i>	ZFMK-TIS-2529969	-
<i>Mesoxyonyx sicardi</i>	ZFMK-TIS-3693	ZFMK-DNA-0155628538
<i>Micrelus ericae</i>	ZFMK-TIS-3219	ZFMK-DNA-0155633370
<i>Micrelus ferrugatus</i>	ZFMK-TIS-3089	ZFMK-DNA-0100448130
<i>Microplontus campestris</i>	ZFMK-TIS-2D100439095	ZFMK-DNA-0100439767
<i>Microplontus melanostigma</i>	ZFMK-TIS-3164	ZFMK-DNA-0100426246
<i>Microplontus millefolii</i>	ZFMK-TIS-3711	ZFMK-DNA-0100414292
<i>Microplontus rugulosus</i>	ZFMK-TIS-20146	ZFMK-DNA-0100438726
<i>Mogulones abbreviatulus</i>	ZFMK-TIS-3683	ZFMK-DNA-0155635585
<i>Mogulones asperifoliarum</i>	ZFMK-TIS-2D100439096	ZFMK-DNA-0100439768
<i>Mogulones austriacus</i>	ZFMK-TIS-3481	ZFMK-DNA-0100449563
<i>Mogulones biondii</i>	ZFMK-TIS-2D100447042	ZFMK-DNA-0100437932
<i>Mogulones cingulatus</i>	ZFMK-TIS-2D100440315	ZFMK-DNA-0100438390
<i>Mogulones crucifer</i>	ZFMK-TIS-20128	ZFMK-DNA-0100438741
<i>Mogulones cynoglossi</i>	ZFMK-TIS-3471	ZFMK-DNA-0100449572
<i>Mogulones dimidiatus</i>	ZFMK-TIS-3644	ZFMK-DNA-0155635642
<i>Mogulones geographicus</i>	ZFMK-TIS-3564	ZFMK-DNA-0100426049
<i>Mogulones graciosus</i>	ZFMK-TIS-2D100438691	ZFMK-DNA-0100438366
<i>Mogulones grisescens</i>	ZFMK-TIS-2D100438640	ZFMK-DNA-0100438197
<i>Mogulones larvatus</i>	ZFMK-TIS-3408	ZFMK-DNA-0100449636
<i>Mogulones pallidicornis</i>	ZFMK-TIS-3138	ZFMK-DNA-0100426871
<i>Mogulones peregrinus</i>	ZFMK-TIS-3433	ZFMK-DNA-0100449611
<i>Mogulones pseudopollinarius</i>	ZFMK-TIS-3060	ZFMK-DNA-0100448164
<i>Mogulones raphani</i>	ZFMK-TIS-20374	ZFMK-DNA-0100448284
<i>Mogulones soricinus</i>	ZFMK-TIS-3423	ZFMK-DNA-0100449620
<i>Mogulones uncipes</i>	ZFMK-TIS-3566	ZFMK-DNA-0100426051
<i>Mogulonoides radula</i>	ZFMK-TIS-26016	ZFMK-DNA-0171600661
<i>Neoglocianus albiovittatus</i>	ZFMK-TIS-20449	ZFMK-DNA-0100448599
<i>Neoglocianus maculaalba</i>	ZFMK-TIS-4083	ZFMK-DNA-0100426435
<i>Oprohinus consputus</i>	ZFMK-TIS-3464	ZFMK-DNA-0100449580
<i>Oprohinus suturalis</i>	ZFMK-TIS-3647	ZFMK-DNA-0155635630
<i>Parethelcus nescicola</i>	ZFMK-TIS-3043	ZFMK-DNA-0155630431
<i>Paroxyonyx audisioi</i>	ZFMK-TIS-3521	ZFMK-DNA-0100426102

<i>Paroxyonyx cinctus</i>	ZFMK-TIS-3437	ZFMK-DNA-0100449607
<i>Paroxyonyx fallaciosus</i>	ZFMK-TIS-3626	ZFMK-DNA-0155635651
<i>Paroxyonyx imitator</i>	ZFMK-TIS-3438	ZFMK-DNA-0100449606
<i>Pelenomus canaliculatus</i>	ZFMK-TIS-20344	ZFMK-DNA-0100448421
<i>Pelenomus commari</i>	ZFMK-TIS-2D100438519	ZFMK-DNA-0100439798
<i>Pelenomus velaris</i>	ZFMK-TIS-3811	ZFMK-DNA-0100449720
<i>Perioxyonyx splendidus</i>	ZFMK-TIS-3625	ZFMK-DNA-0155635652
<i>Phrydiuchus quijote</i>	ZFMK-TIS-3518	ZFMK-DNA-0100426236
<i>Phrydiuchus topiarius</i>	ZFMK-TIS-20148	ZFMK-DNA-0100438728
<i>Phytobius leucogaster</i>	ZFMK-TIS-20155	ZFMK-DNA-0100438937
<i>Poophagus sisymbrii</i>	ZFMK-TIS-3807	ZFMK-DNA-0100449716
<i>Ranunculiphilus faeculentus</i>	ZFMK-TIS-3472	ZFMK-DNA-0100449573
<i>Rhinoncus albicinctus</i>	ZFMK-TIS-3501	ZFMK-DNA-0155630467
<i>Rhinoncus castor</i>	ZFMK-TIS-3169	ZFMK-DNA-0100426948
<i>Rhinoncus henningsi</i>	ZFMK-TIS-2D100439099	ZFMK-DNA-0100439771
<i>Rhinoncus inconspicuous</i>	ZFMK-TIS-20159	ZFMK-DNA-0100438710
<i>Rhinoncus smreczynskii</i>	ZFMK-TIS-20113	ZFMK-DNA-0100438933
<i>Scleropterus serratus</i>	ZFMK-TIS-20145	ZFMK-DNA-0155630446
<i>Sirocalodes depressicollis</i>	ZFMK-TIS-20129	ZFMK-DNA-0100438958
<i>Sirocalodes mixtus</i>	ZFMK-TIS-4672	ZFMK-DNA-0155628558
<i>Sirocalodes nigroterminatus</i>	ZFMK-TIS-3034	ZFMK-DNA-0100448190
<i>Stenocarus ruficornis</i>	ZFMK-TIS-3722	ZFMK-DNA-0100413827
<i>Tapeinotus sellatus</i>	ZFMK-TIS-20160	ZFMK-DNA-0100438909
<i>Thamiocolus garajonay</i>	ZFMK-TIS-4077	ZFMK-DNA-0171624053
<i>Thamiocolus grancanariensis</i>	ZFMK-TIS-2D100447002	ZFMK-DNA-0100437934
<i>Thamiocolus niveus</i>	ZFMK-TIS-4145	ZFMK-DNA-0100426150
<i>Thamiocolus sinapis</i>	ZFMK-TIS-2D100440252	ZFMK-DNA-0100438140
<i>Thamiocolus viduatus</i>	ZFMK-TIS-20170	ZFMK-DNA-0100438702
<i>Thamiocolus virgatus</i>	ZFMK-TIS-3648	ZFMK-DNA-0155635629
<i>Thamiocolus wollastoni</i>	ZFMK-TIS-3022	ZFMK-DNA-0155630428
<i>Trichosirocalus barnevillei</i>	ZFMK-TIS-4181	ZFMK-DNA-0155628521
<i>Trichosirocalus histrix</i>	ZFMK-TIS-3416	ZFMK-DNA-0100449113
<i>Trichosirocalus horridus</i>	ZFMK-TIS-20151	ZFMK-DNA-0100438718
<i>Trichosirocalus spurnyi</i>	ZFMK-TIS-20166	ZFMK-DNA-0100438698
<i>Trichosirocalus thalhammeri</i>	ZFMK-TIS-3454	ZFMK-DNA-0100449590
<i>Trichosirocalus troglodytes</i>	ZFMK-TIS-3710	ZFMK-DNA-0100413785
<i>Zacladus exiguus</i>	ZFMK-TIS-3853	ZFMK-DNA-0100449666
<i>Zacladus geranii</i>	ZFMK-TIS-20326	ZFMK-DNA-0100448438

**Table S3:** Host plant associations of all included ceutorhynchine weevils.

<b>Tribus/Species</b>	<b>Host plant</b>	<b>Order</b>	<b>Reference</b>
<b>Mononychini</b>			
<i>Mononychus punctumalbum</i>	<i>Iris</i> spp	Iridaceae	Rheinheimer & Hassler, 2010
<b>Amalini</b>			
<i>Amalus scortillum</i>	<i>Polygonum aviculare</i>	Polygonaceae	Rheinheimer & Hassler, 2010
<b>Hypurini</b>			
<i>Aphytobius sphaerion</i>	<i>Silene alba</i> , <i>Arenaria</i> spp	Caryophyllaceae	Colonnelli, 2004
<i>Aphytobius veronicae</i>	<i>Silene latifolia</i>	Caryophyllaceae	Krátký, 2015
<b>Phytobiini</b>			
<i>Eubrychius velutus</i>	<i>Myriophyllum</i> spp	Haloragaceae	Colonnelli, 2004
<i>Euhrychiopsis lecontei</i>	<i>Myriophyllum</i> spp	Haloragaceae	Colonnelli, 2004
<i>Pelenomus canaliculatus</i>	<i>Myriophyllum</i> spp	Haloragaceae	Rheinheimer & Hassler, 2010
<i>Pelenomus commari</i>	<i>Sanguisorba officinalis</i> , <i>Potentilla</i> sp, <i>Alchemilla</i> sp	Rosaceae	Rheinheimer & Hassler, 2010
<i>Pelenomus quadrituberculatus</i>	<i>Persicaria</i> spp, <i>Fallopia convolvulus</i> , <i>Polygonum</i> spp	Polygonaceae	Rheinheimer & Hassler, 2010
<i>Pelenomus velaris</i>	<i>Persicaria amphibia</i>	Polygonaceae	Rheinheimer & Hassler, 2010
<i>Phytobius leucogaster</i>	<i>Myriophyllum</i> spp	Haloragaceae	Rheinheimer & Hassler, 2010
<i>Neophytobius granatus</i>	<i>Persicaria lapathifolia</i>	Polygonaceae	Rheinheimer & Hassler, 2010
<i>Rhinoncus albicinctus</i>	<i>Persicaria amphibia</i>	Polygonaceae	Rheinheimer & Hassler, 2010
<i>Rhinoncus bruchoides</i>	<i>Persicaria</i> spp	Polygonaceae	Rheinheimer & Hassler, 2010
<i>Rhinoncus castor</i>	<i>Rumex acetosella</i>	Polygonaceae	Rheinheimer & Hassler, 2010
<i>Rhinoncus henningsi</i>	<i>Persicaria bistorta</i>	Polygonaceae	Rheinheimer & Hassler, 2010
<i>Rhinoncus inconspicuous</i>	<i>Persicaria amphibia</i>	Polygonaceae	Rheinheimer & Hassler, 2010
<i>Rhinoncus pericarpus</i>	<i>Rumex</i> spp	Polygonaceae	Rheinheimer & Hassler, 2010
<i>Rhinoncus perpendiculatus</i>	<i>Persicaria</i> spp	Polygonaceae	Rheinheimer & Hassler, 2010
<i>Marmaropus besseri</i>	<i>Rumex thyrsoiflorus</i>	Polygonaceae	Rheinheimer & Hassler, 2010
<b>Scleropterini</b>			
<i>Rutidosoma globulus</i>	<i>Populus</i> spp	Salicaceae	Rheinheimer & Hassler, 2010
<i>Scleropteridius cf globulus</i>	<i>Oxalis acetosella</i>	Oxalidaceae	Rheinheimer & Hassler, 2010
<i>Scleropterus serratus</i>	<i>Geum rivale</i>	Rosaceae	Rheinheimer & Hassler, 2010
<i>Scleropterides hypocrita</i>	<i>Rubus matsumuranus</i>	Rosaceae	Rheinheimer & Hassler, 2010
<i>Tapeinotus sellatus</i>	<i>Lysimachia vulgaris</i> , <i>L. thyrsoiflora</i>	Myrsinaceae	Colonnelli, 2004
<i>Brachiodontus reitteri</i>	host unknown	Primulaceae?	Colonnelli, 2004
<i>Homorosoma validirostre</i>	<i>Polygonum</i> spp	Polygonaceae	Colonnelli, 2004
<b>Mecysmoderini</b>			
<i>Xenysmoderes consularis</i>	<i>Alpinia</i> sp	Zingiberaceae	Colonnelli, 2004
<i>Coelioderes nigrinus</i>	<i>Rhododendron mucronulatum</i>	Ericaceae	Colonnelli, 2004
<b>Egriini</b>			
<i>Cyphosenus grouvellei</i>	<i>Rhododendron</i> sp	Ericaceae	Hong et al., 2011
<i>Ceutorhynchoides styracis</i>	<i>Styrax japonica</i>	Styracaceae	Hong et al., 2011
<b>Cnemogonini</b>			
<i>Cnemogonus</i> sp	host unknown	Onagraceae?	Korotyaev & Anderson, 2002
<i>Auleutes epilobii</i>	<i>Epilobium angustiolium</i>	Onagraceae	Rheinheimer & Hassler, 2010
<i>Parauleutes nebulosus</i>	host unknown, occasionally on <i>Polygonum</i> spp	Polygonaceae	Colonnelli, 2004
<b>Coeliadini</b>			
<i>Coeliodes dryados</i>	<i>Quercus</i> spp	Fagaceae	Colonnelli, 2004
<i>Coeliodes nakanoensis</i>	<i>Quercus dentata</i>	Fagaceae	Colonnelli, 2004
<i>Coeliodes rana</i>	<i>Quercus</i> spp	Fagaceae	Rheinheimer & Hassler, 2010
<i>Coeliodes ruber</i>	<i>Quercus</i> spp	Fagaceae	Rheinheimer & Hassler, 2010
<i>Coeliodes transversealbofasciatus</i>	<i>Quercus</i> spp	Fagaceae	Rheinheimer & Hassler, 2010
<i>Coeliodin rubicundus</i>	<i>Betula</i> spp	Betulaceae	Rheinheimer & Hassler, 2010
<i>Trichocoeliodes excavatus</i>	<i>Hydrangea serrata</i>	Fagaceae	Hong et al., 2011
<b>Oxyonychini</b>			
<i>Barioxyonyx kerzhneri</i>	<i>Ephedra foemina</i>	Ephedraceae	Colonnelli, 2004
<i>Barioxyonyx tournieri</i>	<i>Ephedra altissima</i> , <i>E. major</i>	Ephedraceae	Colonnelli, 2004
<i>Mesoxyonyx sicardi</i>	<i>Ephedra distachya</i> , <i>E. fragilis</i>	Ephedraceae	Colonnelli, 2004
<i>Paroxyonyx audisioi</i>	<i>Ephedra</i> sp	Ephedraceae	Colonnelli, 2004
<i>Paroxyonyx cinctus</i>	<i>Ephedra alata</i> , <i>E. altissima</i> , <i>E. fragilis</i>	Ephedraceae	Colonnelli, 2004
<i>Paroxyonyx fallaciosus</i>	<i>Ephedra fragilis</i>	Ephedraceae	Colonnelli, 2004
<i>Paroxyonyx imitator</i>	<i>Ephedra major</i> , <i>E. vulgaris</i>	Ephedraceae	Colonnelli, 2004

<b>Tribus/Species</b>	<b>Host plant</b>	<b>Order</b>	<b>Reference</b>
<i>Paroxyonyx petrae</i>	<i>Ephedra alata, E. foemina</i>	Ephedraceae	Colonnelli, 2004
<i>Paroxyonyx rectus</i>	<i>Ephedra</i> sp	Ephedraceae	Colonnelli, 2004
<i>Paroxyonyx</i> sp	<i>Ephedra</i> sp	Ephedraceae	Colonnelli, 2004
<b>Ceutorhynchini</b>			
<i>Amalorrhynchus melanarius</i>	<i>Nasturtium officinale</i>	Brassicaceae	Colonnelli, 2004
<i>Ceutorhynchus aeneicollis</i>	<i>Lepidium</i> spp, <i>Descurainia sophia, Sysimbrium altissimum</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus alliariae</i>	<i>Alliaria petiolata</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus alyssi</i>	<i>Alyssum spinosum</i>	Brassicaceae	Colonnelli, 2004
<i>Ceutorhynchus arator</i>	<i>Crambe tataria</i>	Brassicaceae	Colonnelli, 2004
<i>Ceutorhynchus assimilis</i>	various crucifers	Brassicaceae, Resedaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus atomus</i>	<i>Arabidopsis thaliana, Teesdalia nudicaulis, Draba muralis</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus barbarae</i>	<i>Barbarea</i> ssp, <i>Rorippa palustris, Cardamine enneaphyllos</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus canariensis</i>	<i>Erucastrum cardaminoides, Descurainia millefolia</i>	Brassicaceae	Colonnelli, 2004
<i>Ceutorhynchus carinatus</i>	<i>Lepidium campestre, Thlaspi</i> spp, <i>Berteroa incana, Isatis tinctoria, Erysimum</i>	Brassicaceae, Resedaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus chalybaeus</i>	<i>Thlaspi arvense, Capsella bursa-pastoris, Reseda luteola</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus chlorophanus</i>	<i>Erysimum, occasionally on Syrenia siliculata</i>	Brassicaceae,	Colonnelli, 2004
<i>Ceutorhynchus cochleriae</i>	<i>Cardamine pratense, C. amara, Dentaria enneaphyllos</i>	Brassicaceae	Colonnelli, 2004
<i>Ceutorhynchus coerulescens</i>	<i>Lepidium campestre</i>	Brassicaceae	Colonnelli, 2004
<i>Ceutorhynchus constrictus</i>	<i>Alliaria petiolata</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus contractus</i>	various crucifers	Brassicaceae, Resedaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus dubius</i>	<i>Berteroa incana</i>	Brassicaceae	Colonnelli, 2004
<i>Ceutorhynchus erysimi</i>	<i>Capsella bursa-pastoris</i>	Brassicaceae	Colonnelli, 2004
<i>Ceutorhynchus fallax</i>	various crucifers	Brassicaceae	Colonnelli, 2004
<i>Ceutorhynchus filirostris</i>	<i>Cardamine</i> spp	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus gallorhenanus</i>	various crucifers	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus granulicollis</i>	<i>Thlaspi arvense</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus hampei</i>	<i>Berteroa incana</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus hirtulus</i>	<i>Arabidopsis thaliana, Erophila verna</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus ignitus</i>	<i>Berteroa incana</i>	Brassicaceae	Colonnelli, 2004
<i>Ceutorhynchus inaeffectatus</i>	<i>Hesperis matronalis, H. tristis</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus intersetosus</i>	<i>Diplotaxis, Raphanus rostratus, Sisymbrium irio</i>	Brassicaceae	Colonnelli, 2004
<i>Ceutorhynchus jucundus</i>	<i>Erysimum bicolor?</i>	Brassicaceae	Stüben, 2017
<i>Ceutorhynchus leprieuri</i>	<i>Brassica, Alyssum, Rapsitrum, Sinapis</i>	Brassicaceae	Colonnelli, 2004
<i>Ceutorhynchus leucorrhama</i>	<i>Diplotaxis eruroides</i>	Brassicaceae	Colonnelli, 2004
<i>Ceutorhynchus libertorum</i>	<i>Alyssum</i> ssp	Brassicaceae	Colonnelli, 2005
<i>Ceutorhynchus liliputanus</i>	<i>Alyssum lenense</i>	Brassicaceae	Colonnelli, 2004
<i>Ceutorhynchus lukesi</i>	<i>Alyssum</i> ssp	Brassicaceae	Colonnelli, 2004
<i>Ceutorhynchus merkli</i>	<i>Cardaria alba</i>	Brassicaceae	Colonnelli, 2004
<i>Ceutorhynchus moraviensis</i>	<i>Sisymbrium strictissimum</i>	Brassicaceae	Colonnelli, 2004
<i>Ceutorhynchus napi</i>	<i>Brassica, Sisymbrium, Cardaria, Descurainia, Alliaria, Rorippa, Capsella, Erysium, Nasturtium, Sinapsis</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus neglectus</i>	<i>Descurainia sophia, u.a.</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus nevadensis</i>	<i>Reseda</i> spp	Resedaceae	Colonnelli, 2004
<i>Ceutorhynchus niyazii</i>	<i>Sisymbrium altissimum</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus obstructus</i>	various crucifers	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus pallidactylus</i>	various crucifers	Brassicaceae, Resedaceae	Rheinheimer & Hassler, 2010

Tribus/Species	Host plant	Order	Reference
<i>Ceutorhynchus paroliniae</i>	<i>Parolinia platypetala</i>	Brassicaceae	Krátký, 2016
<i>Ceutorhynchus parvulus</i>	<i>Lepidium campestre</i> , <i>L. heterophyllum</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus pectoralis</i>	<i>Cardamine</i> spp, <i>Barbarea vulgaris</i> , <i>Rorippa</i> spp, <i>Nasturtium officinale</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus pervicax</i>	<i>Cardamine</i> spp, <i>Nasturtium officinale</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus picitarsis</i>	<i>Sisymbrium</i> spp, <i>Brassica</i> spp, <i>Erysimum</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus pulvinatus</i>	<i>Descurainia sophia</i> , <i>Sisymbrium</i> spp	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus pumilio</i>	<i>Teesdalia nudicaulis</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus puncticollis</i>	<i>Berteroa incana</i> , <i>Erysimum</i> spp	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus pyrrhorhynchus</i>	<i>Sisymbrium</i> spp	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus querceti</i>	<i>Rorippa palustris</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus rapae</i>	<i>Descurainia sophia</i> , <i>Brassica oleracea</i> , <i>Erysimum cheiranthoides</i> , <i>Cardamine armara</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus resedae</i>	<i>Reseda luteola</i>	Resedaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus rhenanus</i>	<i>Erysimum</i> spp	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus roberti</i>	<i>Alliaria petiolata</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus sardeanensis</i>	various crucifers	Brassicaceae	Colonnelli, 2004
<i>Ceutorhynchus scrobicollis</i>	<i>Alliaria petiolata</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus sisymbrii</i>	<i>Sisymbrium loeselii</i>	Brassicaceae	Colonnelli, 2004
<i>Ceutorhynchus squamulosus</i>	<i>Brassica barrelieri</i> , <i>Rhynchospinapis hispida</i>	Brassicaceae	Colonnelli, 2004
<i>Ceutorhynchus striatellus</i>	<i>Alyssum montanum</i> , <i>A. alpestre</i> , <i>A. alyssoides</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus subpubescens</i>	<i>Descurainia sophia</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus sulcatus</i>	<i>Berteroa</i> , <i>Cardamine</i> , <i>Nasturtium</i> , <i>Sinapis</i>	Brassicaceae	Colonnelli, 2004
<i>Ceutorhynchus sulcicollis</i>	various crucifers	Brassicaceae	Colonnelli, 2004
<i>Ceutorhynchus syrites</i>	<i>Camelina sativa</i> , <i>C. microcarpa</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus tangerianus</i>	<i>Sinapis alba</i>	Brassicaceae	Colonnelli, 2004
<i>Ceutorhynchus thomsoni</i>	<i>Alliaria petiolata</i> , <i>Berteroa incana</i> , <i>Brassica campestris</i>	Brassicaceae	Colonnelli, 2004
<i>Ceutorhynchus tibialis</i>	<i>Diplotaxis</i> , occasionally on <i>Hirschfeldia</i> and <i>Sinapis</i>	Brassicaceae	Colonnelli, 2004
<i>Ceutorhynchus turbatus</i>	<i>Cardaria draba</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus typhae</i>	various crucifers	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ceutorhynchus varius</i>	<i>Arabidopsis thaliana</i>	Brassicaceae	Colonnelli, 2004
<i>Ceutorhynchus wagneri</i>	<i>Alyssum calycinum</i>	Brassicaceae	Colonnelli, 2004
<i>Coeliastes lamii</i>	<i>Lamium</i> spp, <i>Galeopsis tetrahit</i>	Lamiaceae	Rheinheimer & Hassler, 2010
<i>Datonychidius tener</i>	<i>Marrubium cylleneum</i>	Lamiaceae	Colonnelli, 2004
<i>Datonychus delicatulus</i>	host unknown	Lamiaceae?	Colonnelli, 2004
<i>Datonychus maurus</i>	<i>Mentha</i> spp	Lamiaceae	Colonnelli, 2004
<i>Datonychus melanostictus</i>	<i>Mentha</i> spp, <i>Lycopus europeus</i>	Lamiaceae	Colonnelli, 2004
<i>Datonychus paszlavszkyi</i>	<i>Salvia nemorosa</i> , <i>S. pratensis</i>	Lamiaceae	Colonnelli, 2004
<i>Drupenatus nasturtii</i>	<i>Nasturtium officinale</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Glocianus distinctus</i>	<i>Hypochaeris</i> , <i>Crepis</i> , <i>Lactua</i> , <i>Hieracium</i>	Asteraceae	Rheinheimer & Hassler, 2010
<i>Glocianus fennicus</i>	<i>Taraxacum officinale</i> , <i>Leontodon autumnale</i> , <i>Senecio integrifolius</i>	Asteraceae	Colonnelli, 2004
<i>Glocianus granulithorax</i>	host unknown	Asteraceae?	Colonnelli, 2004
<i>Glocianus punctiger</i>	<i>Taraxacum</i> spp	Asteraceae	Rheinheimer & Hassler, 2010
<i>Hadroplontus ancora</i>	host unknown	Asteraceae?	Colonnelli, 2004
<i>Hadroplontus litura</i>	<i>Cirsium</i> spp, <i>Carduus</i> spp	Asteraceae	Rheinheimer & Hassler, 2010
<i>Hadroplontus trimaculatus</i>	<i>Cirsium arvense</i> , <i>Cirsium</i> spp, <i>Carduus defloratus</i>	Asteraceae	Rheinheimer & Hassler, 2010
<i>Hainokisaruzo japonicus</i>	<i>Symplocos glauca</i>	Symplocaceae	Yoshitake & Colonnelli, 2005
<i>Hesperorrhynchus hesperus</i>	<i>Aichryson laxum</i> , <i>A. parlatorei</i> , <i>A. punctatum</i>	Crassulaceae	Colonnelli, 2004

Tribus/Species	Host plant	Order	Reference
<i>Hesperorrhynchus phytobioides</i>	<i>Aichryson laxum, A. punctatum</i>	Crassulaceae	Colonnelli, 2004
<i>Hesperorrhynchus incautus</i>	<i>Monanthes laxiflora</i>	Crassulaceae	Colonnelli, 2004
<i>Micrelus ericae</i>	<i>Calluna vulgaris</i>	Ericaceae	Rheinheimer & Hassler, 2010
<i>Micrelus ferrugatus</i>	<i>Erica arborea, E. scoparia</i>	Ericaceae	Colonnelli, 2004
<i>Microplontus campestris</i>	<i>Leucantheum spp</i>	Asteraceae	Rheinheimer & Hassler, 2010
<i>Microplontus melanostigma</i>	<i>Tripleurospermum perforatum,</i> <i>Matricaria spp, Anthemis spp</i>	Asteraceae	Rheinheimer & Hassler, 2010
<i>Microplontus millefolii</i>	<i>Tanacetum vulgare</i>	Asteraceae	Rheinheimer & Hassler, 2010
<i>Microplontus rugulosus</i>	<i>Artemisia spp, Tripleurospermum perforatum</i>	Asteraceae	Rheinheimer & Hassler, 2010
<i>Mogulones abbreviatulus</i>	<i>Symphytum officinale</i>	Boraginaceae	Rheinheimer & Hassler, 2010
<i>Mogulones asperifoliarum</i>	various	Boraginaceae	Colonnelli, 2004
<i>Mogulones austriacus</i>	<i>Nonea lutea, N. pulla</i>	Boraginaceae	Colonnelli, 2004
<i>Mogulones biondii</i>	<i>Echium spp</i>	Boraginaceae	Colonnelli, 2004
<i>Mogulones cingulatus</i>	<i>Cynoglossum pictum, Nonea, Onosma stellutatum</i>	Boraginaceae	Colonnelli, 2004
<i>Mogulones crucifer</i>	<i>Cynoglossum officinale, Anchusa arvensis</i>	Boraginaceae	Rheinheimer & Hassler, 2010
<i>Mogulones cynoglossi</i>	<i>Cynoglossum officinale</i>	Boraginaceae	Colonnelli, 2004
<i>Mogulones dimidiatus</i>	<i>Nonea pulla</i>	Boraginaceae	Colonnelli, 2004
<i>Mogulones geographicus</i>	<i>Echium spp</i>	Boraginaceae	Rheinheimer & Hassler, 2010
<i>Mogulones graciosus</i>	<i>Anchusa italica</i>	Boraginaceae	Colonnelli, 2004
<i>Mogulones grisescens</i>	<i>Echium arenarium, E. creticum</i>	Boraginaceae	Colonnelli, 2004
<i>Mogulones larvatus</i>	<i>Pulmonaria spp, Echinum spp</i>	Boraginaceae	Rheinheimer & Hassler, 2010
<i>Mogulones pallidicornis</i>	<i>Pulmonaria spp</i>	Boraginaceae	Rheinheimer & Hassler, 2010
<i>Mogulones peregrinus</i>	<i>Borago officinalis, occasionally on Cerinthe major</i>	Boraginaceae	Colonnelli, 2004
<i>Mogulones pseudopollinarius</i>	<i>Echium plantagineum</i>	Boraginaceae	Colonnelli, 2004
<i>Mogulones raphani</i>	<i>Symphytum officinale</i>	Boraginaceae	Rheinheimer & Hassler, 2010
<i>Mogulones soricinus</i>	<i>Nonea nigricans</i>	Boraginaceae	Colonnelli, 2004
<i>Mogulones uncipes</i>	host unknown	Boraginaceae?	Colonnelli, 2004
<i>Mogulonoides radula</i>	<i>Anchusa officinalis</i>	Boraginaceae	Colonnelli, 2004
<i>Nedyus quadrimaculatus</i>	<i>Urtica dioica</i>	Urticaceae	Rheinheimer & Hassler, 2010
<i>Neoglocianus albovittatus</i>	<i>Papaver spp</i>	Papaveraceae	Rheinheimer & Hassler, 2010
<i>Neoglocianus maculaalba</i>	<i>Papaver spp</i>	Papaveraceae	Rheinheimer & Hassler, 2010
<i>Oprohinus consputus</i>	<i>Allium spp</i>	Alliaceae	Rheinheimer & Hassler, 2010
<i>Oprohinus suturalis</i>	<i>Allium spp</i>	Alliaceae	Rheinheimer & Hassler, 2010
<i>Parethelcus nesicola</i>	<i>Urtica urens</i>	Urticaceae	Colonnelli, 2004
<i>Parethelcus pollinarius</i>	<i>Urtica dioica, U. pilulifera</i>	Urticaceae	Colonnelli, 2004
<i>Phrydiuchus augusti</i>	<i>Salvia nemorosa</i>	Lamiaceae	Colonnelli, 2004
<i>Phrydiuchus quijote</i>	<i>Salvia spp</i>	Lamiaceae	San Vicente & Salgueira Cerezo, 2010
<i>Phrydiuchus tau</i>	<i>Salvia aethiopsis, S. verticillata</i>	Lamiaceae	Colonnelli, 2004
<i>Phrydiuchus topiarius</i>	<i>Salvia pratensis</i>	Lamiaceae	Rheinheimer & Hassler, 2010
<i>Poophagus sisymbrii</i>	<i>Nasturtium officinale, Rorippa spp</i>	Brassicaceae	Rheinheimer & Hassler, 2010
<i>Ranunculiphilus faeculentus</i>	<i>Consolida arvensis, C. orientalis, C. regalis</i>	Ranunculaceae	Rheinheimer & Hassler, 2011
<i>Sirocalodes depressicollis</i>	<i>Fumaria officinalis, F. vaillantii, Pseudofumaria lutea</i>	Fumariaceae	Rheinheimer & Hassler, 2012
<i>Sirocalodes mixtus</i>	<i>Fumaria spp</i>	Fumariaceae	Colonnelli, 2004
<i>Sirocalodes nigroterminatus</i>	<i>Ceratocarpus claviculata</i>	Fumariaceae	Rheinheimer & Hassler, 2010
<i>Sirocalodes umbrinus</i>	<i>Corydalis speciosa</i>	Fumariaceae	Colonnelli, 2004
<i>Stenocarus cardui</i>	<i>Papaver spp</i>	Papaveraceae	Rheinheimer & Hassler, 2010
<i>Stenocarus ruficornis</i>	<i>Papaver spp</i>	Papaveraceae	Rheinheimer & Hassler, 2010
<i>Thamiocolus garajonay</i>	<i>Sideritis spp</i>	Lamiaceae	Stüben & Schütte, 2014
<i>Thamiocolus grancanariensis</i>	<i>Sideritis dasygnaphala</i>	Lamiaceae	Stüben & Schütte, 2014
<i>Thamiocolus kraatzi</i>	<i>Stachys palustris, S. sylvatica</i>	Lamiaceae	Colonnelli, 2004
<i>Thamiocolus niveus</i>	<i>Ballota nigra</i>	Lamiaceae	Colonnelli, 2004
<i>Thamiocolus signatus</i>	<i>Stachys recta, S. atherocalyx</i>	Lamiaceae	Colonnelli, 2004
<i>Thamiocolus sinapis</i>	<i>Lamium album, Stachys mialhesi, S. recta, S. atherocalyx</i>	Lamiaceae	Colonnelli, 2004
<i>Thamiocolus viduatus</i>	<i>Stachys palustris</i>	Lamiaceae	Rheinheimer & Hassler, 2010
<i>Thamiocolus virgatus</i>	<i>Phlomis tuberosa</i>	Lamiaceae	Colonnelli, 2004



<b>Tribus/Species</b>	<b>Host plant</b>	<b>Order</b>	<b>Reference</b>
<i>Thamiocolus wollastoni</i>	<i>Sideritis</i>	Lamiaceae	Colonnelli, 2004
<i>Trichosirocalus barnevillei</i>	<i>Anthemis millefolium</i>	Asteraceae	Rheinheimer & Hassler, 2010
<i>Trichosirocalus histrix</i>	<i>Anthemis mixta</i>	Asteraceae	Colonnelli, 2004
<i>Trichosirocalus horridus</i>	<i>Cirsium</i> spp, <i>Carduus</i> spp	Asteraceae	Rheinheimer & Hassler, 2010
<i>Trichosirocalus spurnyi</i>	<i>Anthemis millefolium</i>	Asteraceae	Rheinheimer & Hassler, 2010
<i>Trichosirocalus thalhammeri</i>	<i>Plantago coronopus</i> , <i>P. maritima</i>	Asteraceae	Colonnelli, 2004
<i>Trichosirocalus troglodytes</i>	<i>Plantago lanceolata</i>	Plantaginaceae	Rheinheimer & Hassler, 2010
<i>Zacladus exiguus</i>	<i>Geranium</i> spp	Geranicaceae	Rheinheimer & Hassler, 2010
<i>Zacladus geranii</i>	<i>Geranium</i> spp	Geranicaceae	Rheinheimer & Hassler, 2010
<i>Wagnerinus costatus</i>	<i>Weigela hortensis</i>	Caprifoliaceae	Yoshitake et al., 2008
<i>Wagnerinus frugivorus</i>	<i>Weigela middendorffiana</i>	Caprifoliaceae	Yoshitake et al., 2008
<i>Wagnerinus harmandi</i>	<i>Abelia spathulata</i>	Caprifoliaceae	Yoshitake & Ito, 2011

**Table S4A:** Results of the character-dependent diversification analysis in HiSSE, based on the BEAST-I analysis. The Akaike Information Criterion corrected for sample size (AICc) was used to estimate differences among all 44 models. Instead of speciation and extinction rate parameters, HiSSE optimizes transformations of these variables: Turnover rate ( $\tau$ ; speciation rate  $\lambda$  + extinction rate  $\mu$ ) and extinction fraction ( $\varepsilon = \mu/\lambda$ ). Number of free parameters (df), log likelihood (LnL), Akaike weights (AICw).

#	Model	Parameter	df	LnL	AICc	$\Delta$ AICc	AICw
1	BiSSE	All	6	-824.4	1661.3	18.7	0.0
2	BiSSE	$\varepsilon_0=\varepsilon_1$	5	-829.9	1670.0	27.4	0.0
3	BiSSE	q's equal	5	-839.5	1689.2	46.6	0.0
4	BiSSE	$\varepsilon_0=\varepsilon_1$ , q's equal	4	-839.4	1687.1	44.5	0.0
5	Null-2	q's equal	5	-824.6	1659.5	16.9	0.0
6	Null-2	$\varepsilon$ 's, q's equal	3	-830.1	1666.4	23.8	0.0
7	Null-2	q's diff	8	-816.6	1717.8	75.2	0.0
8	Null-2	$\varepsilon$ 's, q's diff	5	-815.4	1696.5	53.9	0.0
9	Null-4	q's equal	8	-816.6	1652.2	9.6	0.0
10	Null-4	$\varepsilon$ 's equal, q's equal	5	-815.4	1643.2	0.7	0.3
11	Null-4	q's diff	16	-811.5	1660.3	17.7	0.0
12	Null-4	$\varepsilon$ 's equal, q's diff	13	-812.6	1655.5	12.9	0.0
13	HiSSE	q's equal	9	-821.4	1661.8	19.2	0.0
14	HiSSE	$\varepsilon$ 's equal, q's equal	6	-817.2	1646.8	4.2	0.1
15	HiSSE	$\tau_0A=\tau_1A=\tau_0B$ , $\varepsilon_0A=\varepsilon_1A=\varepsilon_0B$ , q's equal	5	-817.5	1645.2	2.7	0.1
16	HiSSE	$\tau_0A=\tau_1A=\tau_0B$ , $\varepsilon$ 's equal, q's equal	4	-824.5	1657.3	14.7	0.0
17	HiSSE	$q_0B_1B=0$ , $q_1B_0B=0$ , all other q's equal	9	-814.5	1647.8	5.2	0.0
18	HiSSE	$\varepsilon$ 's equal, $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's equal	6	-833.8	1680.0	37.4	0.0
19	HiSSE	$\tau_0A=\tau_1A=\tau_0B$ , $\varepsilon_0A=\varepsilon_1A=\varepsilon_0B$ , $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's equal	5	-822.9	1656.0	13.5	0.0
20	HiSSE	$\tau_0A=\tau_1A=\tau_0B$ , $\varepsilon$ 's equal, $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's equal	4	-845.3	1698.8	56.2	0.0
21	HiSSE	$\tau_0A=\tau_1A$ , $\varepsilon_0A=\varepsilon_1A$ , q's equal	7	-817.4	1649.3	6.8	0.0
<b>22</b>	<b>HiSSE</b>	<b><math>\tau_0A=\tau_1A</math>, <math>\varepsilon</math>'s equal, q's equal</b>	<b>5</b>	<b>-816.1</b>	<b>1642.6</b>	<b>0.0</b>	<b>0.4</b>
23	HiSSE	$\tau_0A=\tau_1A$ , $\varepsilon_0A=\varepsilon_1A$ , $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's equal	7	-828.9	1672.4	29.8	0.0
24	HiSSE	$\tau_0A=\tau_1A$ , $\varepsilon$ 's equal, $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's equal	5	-820.3	1650.9	8.3	0.0
25	HiSSE	$\tau_0A=\tau_0B$ , $\varepsilon_0A=\varepsilon_0B$ , q's equal	7	-817.6	1649.8	7.2	0.0
26	HiSSE	$\tau_0A=\tau_0B$ , $\varepsilon$ 's equal, q's equal	5	-825.1	1660.5	17.9	0.0
27	HiSSE	$\tau_0A=\tau_0B$ , $\varepsilon_0A=\varepsilon_0B$ , $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's equal	7	-821.5	1657.6	15.0	0.0
28	HiSSE	$\tau_0A=\tau_0B$ , $\varepsilon$ 's equal, $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's equal	5	-831.6	1673.5	30.9	0.0
29	HiSSE	q's diff	16	-822.7	1680.3	37.7	0.0
30	HiSSE	$\varepsilon$ 's equal, q's diff	13	-821.4	1670.6	28.0	0.0
31	HiSSE	$\tau_0A=\tau_1A=\tau_0B$ , $\varepsilon_0A=\varepsilon_1A=\varepsilon_0B$ , q's diff	12	-817.9	1661.5	18.9	0.0
32	HiSSE	$\tau_0A=\tau_1A=\tau_0B$ , $\varepsilon$ 's equal, q's diff	11	-839.2	1701.8	59.2	0.0
33	HiSSE	$q_0B_1B=0$ , $q_1B_0B=0$ , all other q's diff	14	-811.9	1654.1	11.5	0.0
34	HiSSE	$\varepsilon$ 's equal, $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's diff	11	-815.0	1653.4	10.8	0.0
35	HiSSE	$\tau_0A=\tau_1A=\tau_0B$ , $\varepsilon_0A=\varepsilon_1A=\varepsilon_0B$ , $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's diff	10	-842.3	1705.8	63.2	0.0
36	HiSSE	$\tau_0A=\tau_1A=\tau_0B$ , $\varepsilon$ 's equal, $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's diff	9	-837.4	1693.8	51.2	0.0
37	HiSSE	$\tau_0A=\tau_1A$ , $\varepsilon_0A=\varepsilon_1A$ , q's diff	14	-824.4	1679.0	36.4	0.0
38	HiSSE	$\tau_0A=\tau_1A$ , $\varepsilon$ 's equal, q's diff	12	-832.1	1689.8	47.2	0.0
39	HiSSE	$\tau_0A=\tau_1A$ , $\varepsilon_0A=\varepsilon_1A$ , $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's diff	12	-818.6	1662.9	20.3	0.0
40	HiSSE	$\tau_0A=\tau_1A$ , $\varepsilon$ 's equal, $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's diff	10	-814.2	1649.6	7.0	0.0
41	HiSSE	$\tau_0A=\tau_0B$ , $\varepsilon_0A=\varepsilon_0B$ , q's diff	14	-821.8	1673.8	31.2	0.0
42	HiSSE	$\tau_0A=\tau_0B$ , $\varepsilon$ 's equal, q's diff	12	-841.0	1707.7	65.1	0.0
43	HiSSE	$\tau_0A=\tau_0B$ , $\varepsilon_0A=\varepsilon_0B$ , $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's diff	12	-822.9	1671.4	28.8	0.0
44	HiSSE	$\tau_0A=\tau_0B$ , $\varepsilon$ 's equal, $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's diff	10	-836.4	1694.0	51.4	0.0

**Table S4B:** Results of the character-dependent diversification analysis in HiSSE, based on the BEAST-III analysis. The Akaike Information Criterion corrected for sample size (AICc) was used to estimate differences among all 44 models. Instead of speciation and extinction rate parameters, HiSSE optimizes transformations of these variables: Turnover rate ( $\tau$ ; speciation rate  $\lambda$  + extinction rate  $\mu$ ) and extinction fraction ( $\varepsilon = \mu/\lambda$ ). Number of free parameters (df), log likelihood (LnL), Akaike weights (AICw).

#	Model	Parameter	df	LnL	AICc	$\Delta$ AICc	AICw
1	BiSSE	All	6	-820.8	1653.6	16.5	0.0
2	BiSSE	$\varepsilon_0=\varepsilon_1$	5	-825.9	1661.9	24.9	0.0
3	BiSSE	q's equal	5	-823.3	1656.7	19.7	0.0
4	BiSSE	$\varepsilon_0=\varepsilon_1$ , q's equal	4	-839.7	1687.3	50.3	0.0
<b>5</b>	<b>Null-2</b>	<b>q's equal</b>	<b>5</b>	<b>-813.5</b>	<b>1637.0</b>	<b>0.0</b>	<b>0.4</b>
6	Null-2	$\varepsilon$ 's, q's equal	3	-827.3	1660.7	23.6	0.0
7	Null-2	q's diff	8	-840.5	1705.0	68.0	0.0
8	Null-2	$\varepsilon$ 's, q's diff	5	-831.0	1684.0	47.0	0.0
9	Null-4	q's equal	8	-812.5	1643.0	6.0	0.0
10	Null-4	$\varepsilon$ 's equal, q's equal	5	-814.5	1641.0	4.0	0.1
11	Null-4	q's diff	16	-809.1	1652.2	15.1	0.0
12	Null-4	$\varepsilon$ 's equal, q's diff	13	-809.6	1647.1	10.1	0.0
13	HiSSE	q's equal	9	-815.8	1649.5	12.5	0.0
14	HiSSE	$\varepsilon$ 's equal, q's equal	6	-822.1	1656.3	19.2	0.0
15	HiSSE	$\tau_0A=\tau_1A=\tau_0B$ , $\varepsilon_0A=\varepsilon_1A=\varepsilon_0B$ , q's equal	5	-823.5	1656.9	19.9	0.0
16	HiSSE	$\tau_0A=\tau_1A=\tau_0B$ , $\varepsilon$ 's equal, q's equal	4	-815.2	1638.5	1.5	0.2
17	HiSSE	$q_0B_1B=0$ , $q_1B_0B=0$ , all other q's equal	9	-811.2	1640.4	3.4	0.1
18	HiSSE	$\varepsilon$ 's equal, $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's equal	6	-827.9	1667.7	30.7	0.0
19	HiSSE	$\tau_0A=\tau_1A=\tau_0B$ , $\varepsilon_0A=\varepsilon_1A=\varepsilon_0B$ , $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's equal	5	-835.9	1681.9	44.9	0.0
20	HiSSE	$\tau_0A=\tau_1A=\tau_0B$ , $\varepsilon$ 's equal, $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's equal	4	-841.4	1690.8	53.8	0.0
21	HiSSE	$\tau_0A=\tau_1A$ , $\varepsilon_0A=\varepsilon_1A$ , q's equal	7	-812.9	1639.7	2.7	0.1
22	HiSSE	$\tau_0A=\tau_1A$ , $\varepsilon$ 's equal, q's equal	5	-816.0	1642.1	5.0	0.0
23	HiSSE	$\tau_0A=\tau_1A$ , $\varepsilon_0A=\varepsilon_1A$ , $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's equal	7	-825.5	1665.0	28.0	0.0
24	HiSSE	$\tau_0A=\tau_1A$ , $\varepsilon$ 's equal, $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's equal	5	-825.5	1661.0	24.0	0.0
25	HiSSE	$\tau_0A=\tau_0B$ , $\varepsilon_0A=\varepsilon_0B$ , q's equal	7	-814.3	1642.5	5.5	0.0
26	HiSSE	$\tau_0A=\tau_0B$ , $\varepsilon$ 's equal, q's equal	5	-821.2	1652.4	15.4	0.0
27	HiSSE	$\tau_0A=\tau_0B$ , $\varepsilon_0A=\varepsilon_0B$ , $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's equal	7	-816.4	1646.8	9.7	0.0
28	HiSSE	$\tau_0A=\tau_0B$ , $\varepsilon$ 's equal, $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's equal	5	-825.1	1660.2	23.2	0.0
29	HiSSE	q's diff	16	-812.6	1657.3	20.3	0.0
30	HiSSE	$\varepsilon$ 's equal, q's diff	13	-822.2	1670.4	33.4	0.0
31	HiSSE	$\tau_0A=\tau_1A=\tau_0B$ , $\varepsilon_0A=\varepsilon_1A=\varepsilon_0B$ , q's diff	12	-842.1	1708.3	71.2	0.0
32	HiSSE	$\tau_0A=\tau_1A=\tau_0B$ , $\varepsilon$ 's equal, q's diff	11	-822.1	1666.2	29.2	0.0
33	HiSSE	$q_0B_1B=0$ , $q_1B_0B=0$ , all other q's diff	14	-816.8	1661.6	24.6	0.0
34	HiSSE	$\varepsilon$ 's equal, $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's diff	11	-820.4	1662.7	25.7	0.0
35	HiSSE	$\tau_0A=\tau_1A=\tau_0B$ , $\varepsilon_0A=\varepsilon_1A=\varepsilon_0B$ , $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's diff	10	-818.7	1657.4	20.4	0.0
36	HiSSE	$\tau_0A=\tau_1A=\tau_0B$ , $\varepsilon$ 's equal, $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's diff	9	-833.2	1684.3	47.3	0.0
37	HiSSE	$\tau_0A=\tau_1A$ , $\varepsilon_0A=\varepsilon_1A$ , q's diff	14	-808.8	1645.6	8.6	0.0
38	HiSSE	$\tau_0A=\tau_1A$ , $\varepsilon$ 's equal, q's diff	12	-826.0	1675.9	38.9	0.0
39	HiSSE	$\tau_0A=\tau_1A$ , $\varepsilon_0A=\varepsilon_1A$ , $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's diff	12	-815.1	1654.2	17.1	0.0
40	HiSSE	$\tau_0A=\tau_1A$ , $\varepsilon$ 's equal, $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's diff	10	-816.3	1652.5	15.5	0.0
41	HiSSE	$\tau_0A=\tau_0B$ , $\varepsilon_0A=\varepsilon_0B$ , q's diff	14	-822.3	1672.7	35.6	0.0
42	HiSSE	$\tau_0A=\tau_0B$ , $\varepsilon$ 's equal, q's diff	12	-830.0	1684.0	47.0	0.0
43	HiSSE	$\tau_0A=\tau_0B$ , $\varepsilon_0A=\varepsilon_0B$ , $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's diff	12	-832.6	1689.2	52.1	0.0
44	HiSSE	$\tau_0A=\tau_0B$ , $\varepsilon$ 's equal, $q_0B_1B=0$ , $q_1B_0B=0$ , all other q's diff	10	-824.7	1669.4	32.3	0.0

## Figure legends S1-S5

**Figure S1.** Results of the maximum likelihood phylogenetic tree reconstruction in IQ-Tree. Numbers at the internal nodes represent bootstrap support values of the Ultrafast bootstrap approximation approach.

**Figures S2.** Results from the divergence time analyses in BEAST. Trees represent the maximum credibility tree with median ages. Numbers at the internal nodes represent node age and node bars represent the 95% HPD values on node height (age). A) Results of the BEAST-I analysis with a Yule branching prior and a fixed tree topology. Blue squares indicate position of calibration fossils. B) Results of the BEAST-II analysis with a Birth-Death branching prior and a fixed tree topology. C) Results of the BEAST-III analysis, based on a constrained tree search.

**Figures S3.** Results of the diversification rate through time analyses in RevBayes. A-C: Diversification rate analyses based on BEAST-I tree. A) Incomplete taxon sampling covered by a uniform sampling strategy. B) Incomplete taxon sampling covered by an empirical sampling strategy considering the sampling fraction of Ceutorhyninae, “core Ceutorhynchini”, and the genus *Ceutorhynchus*. C) Incomplete taxon sampling covered by an empirical sampling strategy considering the sampling fraction of each genus. D) Diversification rate analyses based on BEAST-III tree and incomplete taxon sampling covered by a uniform sampling strategy. Ages provided in million years (Ma). Net diversification rate  $r = \text{speciation rate } \lambda - \text{extinction rate } \mu$ . Relative extinction rate ( $\varepsilon = \mu/\lambda$ ).

**Figure S4:** Results of the diversification rate through time analyses with TESS. Plots of speciation, extinction, net diversification, and relative extinction rates through time. Plots of the statistical support for rate shifts illustrate both the posterior probability and the Bayes Factor comparison to models with no rate shift. A+B: Diversification rate analyses based on BEAST-I tree and incomplete taxon sampling covered by a uniform sampling strategy. C+D: Diversification rate analyses based on BEAST-III and incomplete taxon sampling covered by a uniform sampling strategy.

**Figures S5:** Results of the clade-specific divergence time analyses in BAMM. Phylorate plots indicating the results of the evolutionary rate analyses. A-C: Diversification rate analyses based on BEAST-I tree. A) Incomplete taxon sampling covered by a uniform sampling strategy. B) Incomplete taxon sampling covered by an empirical sampling strategy considering the sampling fraction of Ceutorhyninae, “core Ceutorhynchini”, and the genus *Ceutorhynchus*. C) Incomplete taxon sampling covered by an empirical sampling strategy considering the sampling fraction of each genus. D) Diversification rate analyses based on BEAST-III tree and incomplete taxon sampling covered by a uniform sampling strategy. Colors indicate relative speciation rates along branches. Red circle indicates the position of a regime shift in the maximum shift credibility (MSC) configuration.

Figure S1

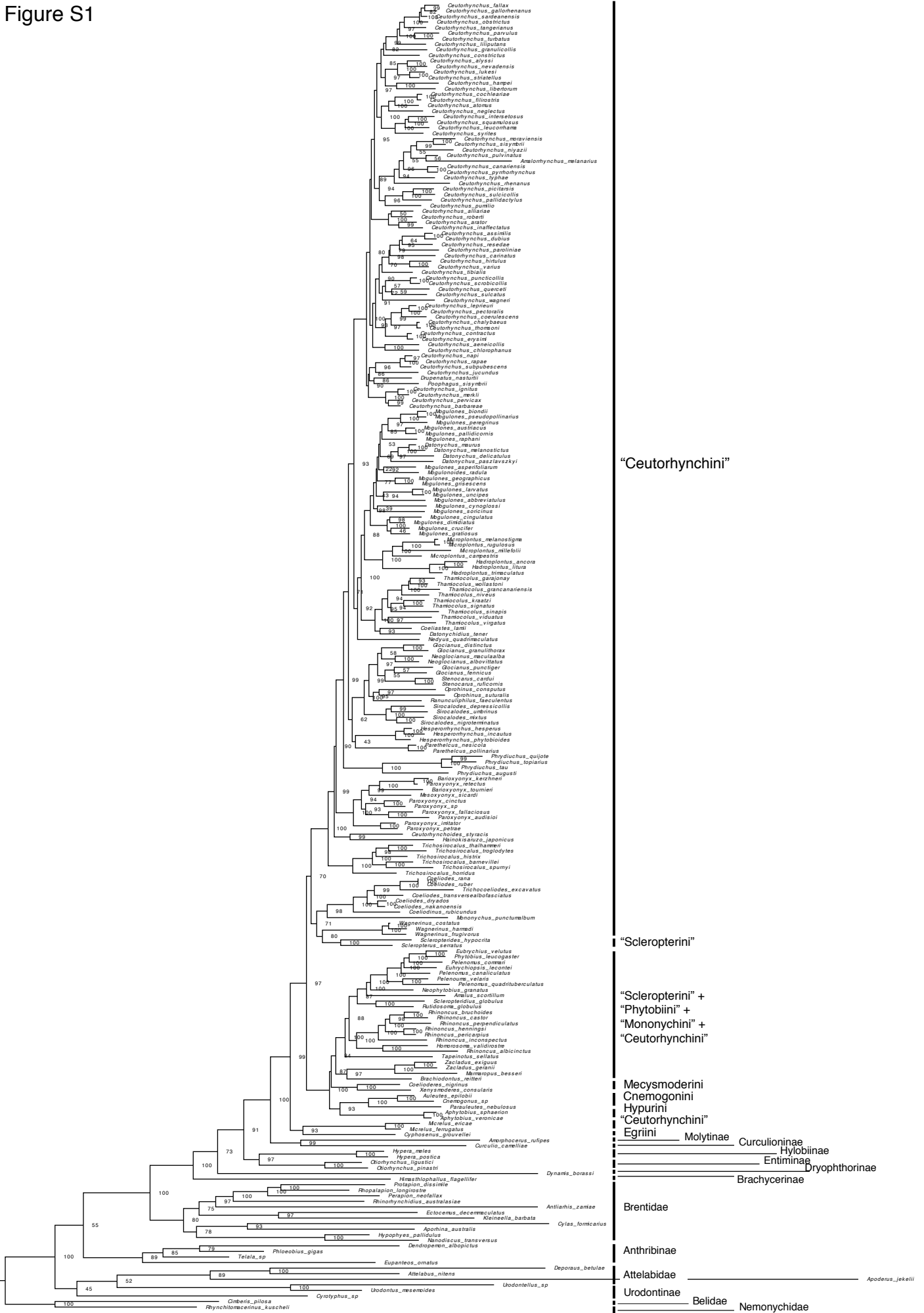


Figure S2A

- Ⓐ Ceutorhynchinae
- Ⓓ "Ceutorhynchini"
- ⒴ Oxyonychini
- Ⓞ "core Ceutorhynchini"
- Ⓥ *Thamiocolus* s.l.
- Ⓨ *Mogulones* s.l.
- Ⓩ *Ceutorhynchus* s.l.
- Fossil calibrations

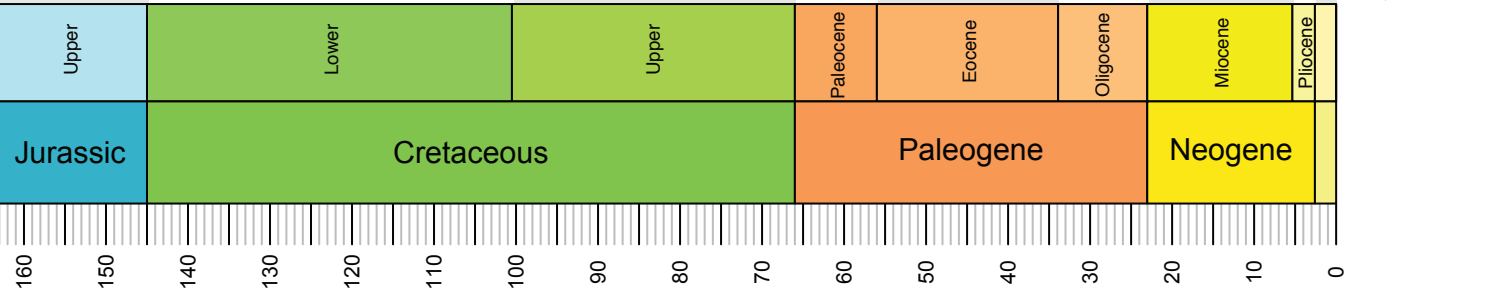
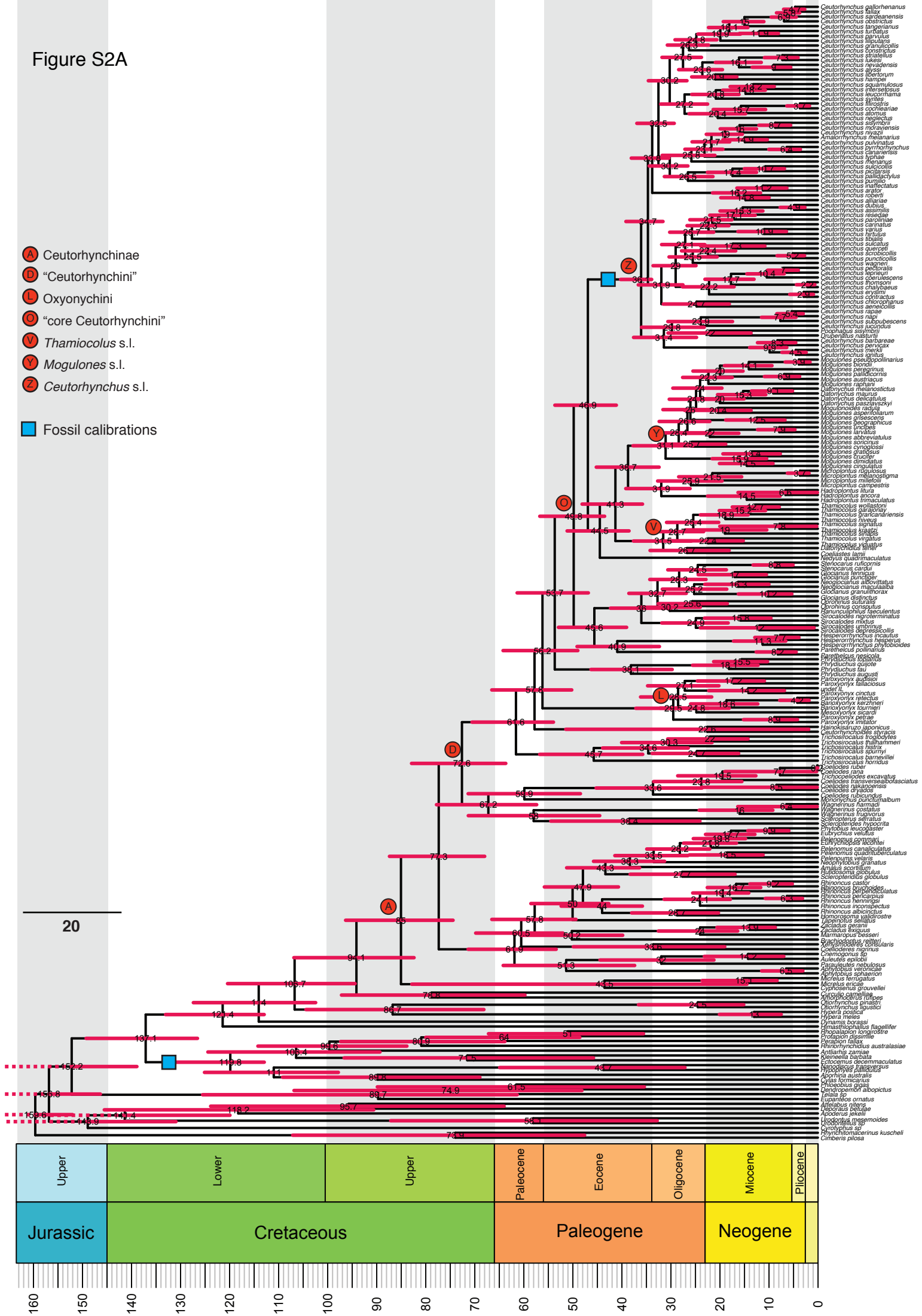


Figure S2B

- A Ceutorhynchinae
- D "Ceutorhynchini"
- L Oxyonychini
- O "core Ceutorhynchini"
- V *Thamiocolus* s.l.
- Y *Mogulones* s.l.
- Z *Ceutorhynchus* s.l.

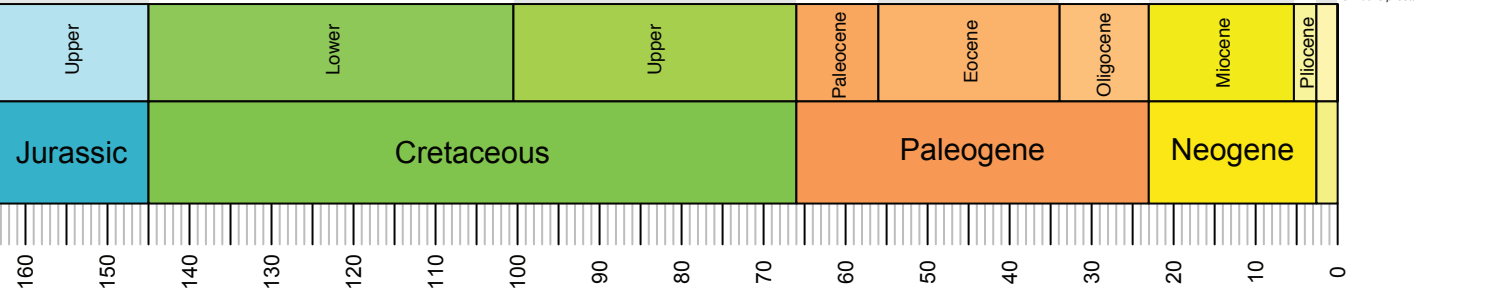
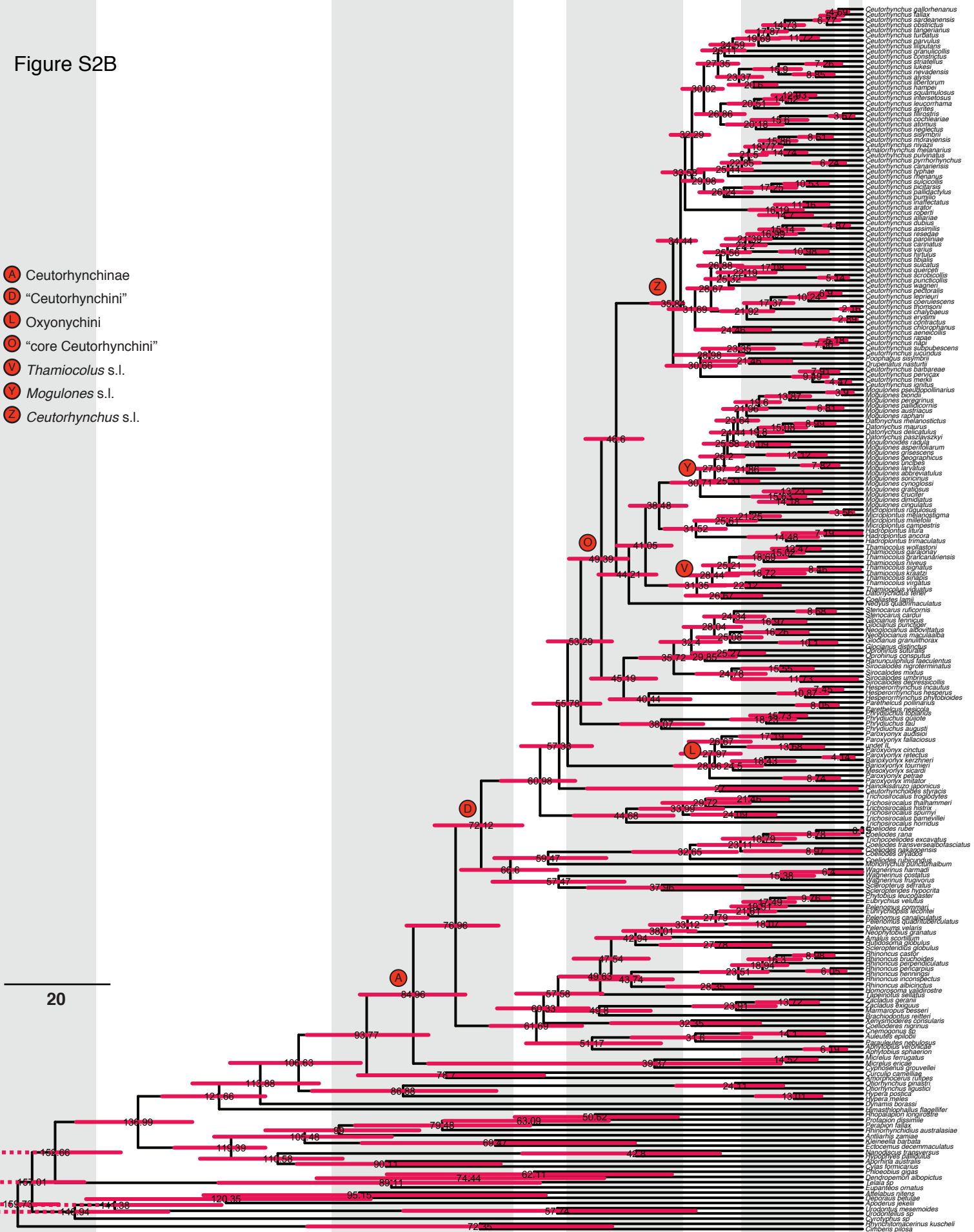




Figure S2C

- "Ceutorhynchinae"
- "Ceutorhynchini"
- Oxyonychini
- "core Ceutorhynchini"
- *Thamiocolus* s.l.
- *Mogulones* s.l.
- *Ceutorhynchus* s.l.

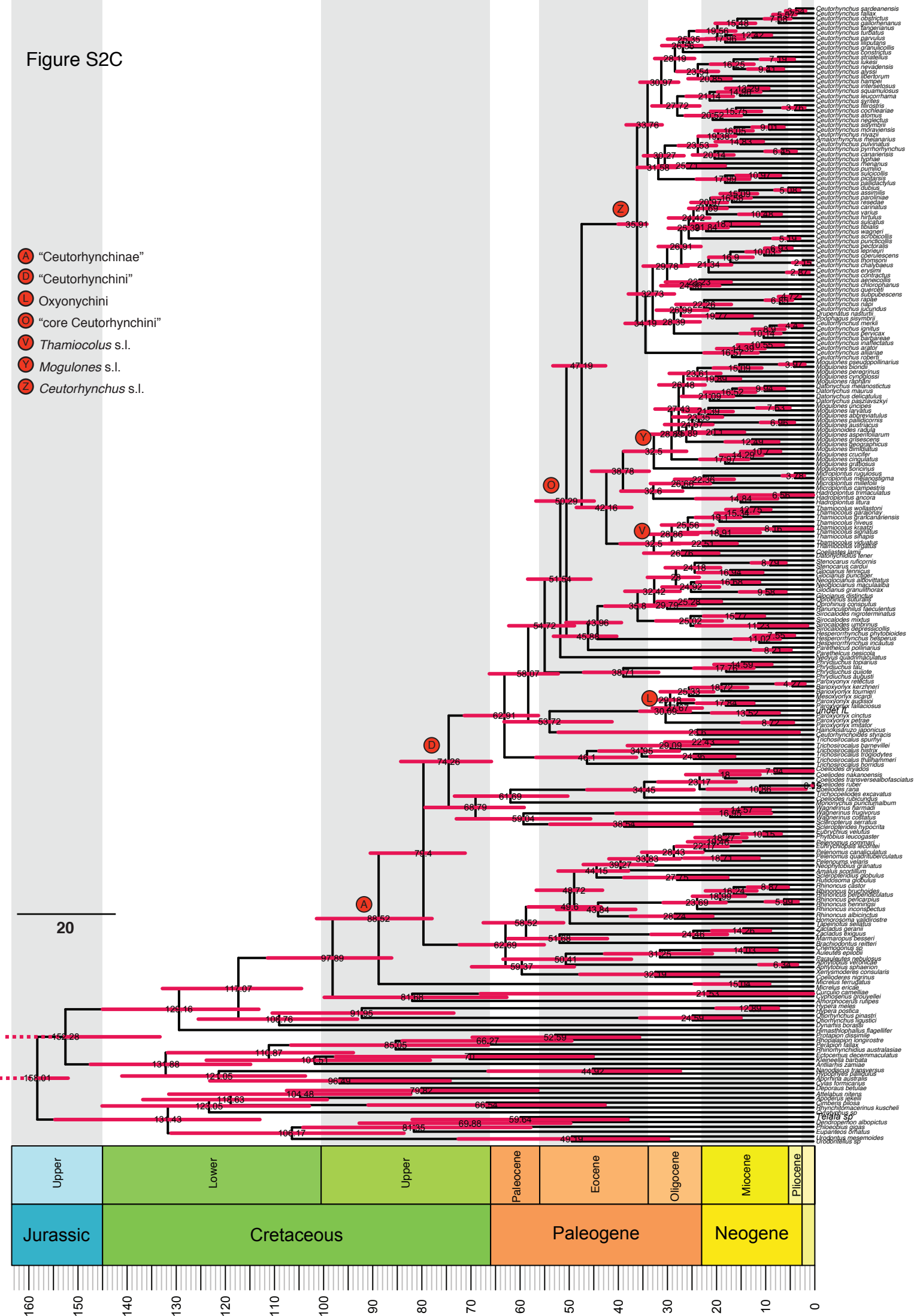
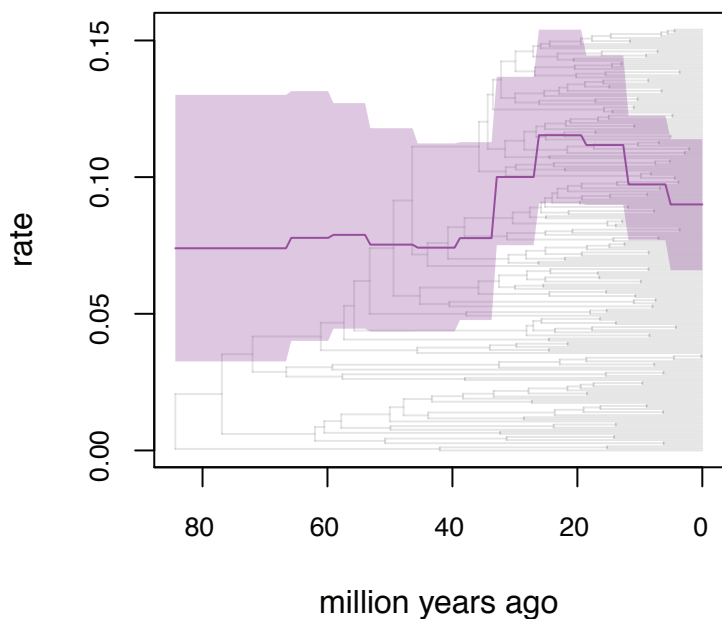
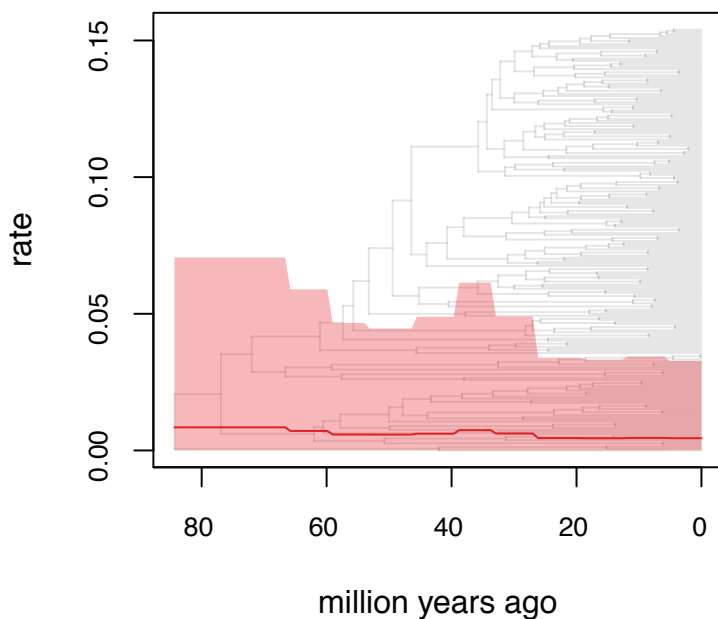


Figure S3A

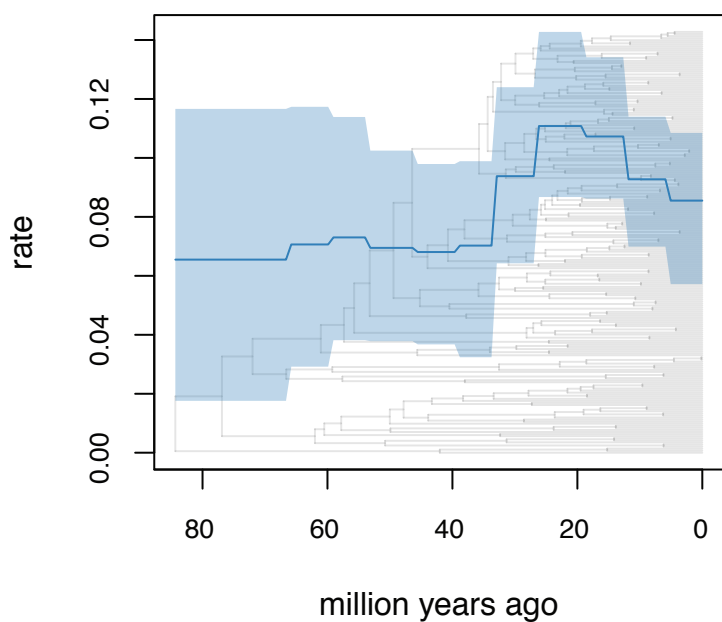
### speciation rate



### extinction rate



### net-diversification rate



### relative-extinction rate

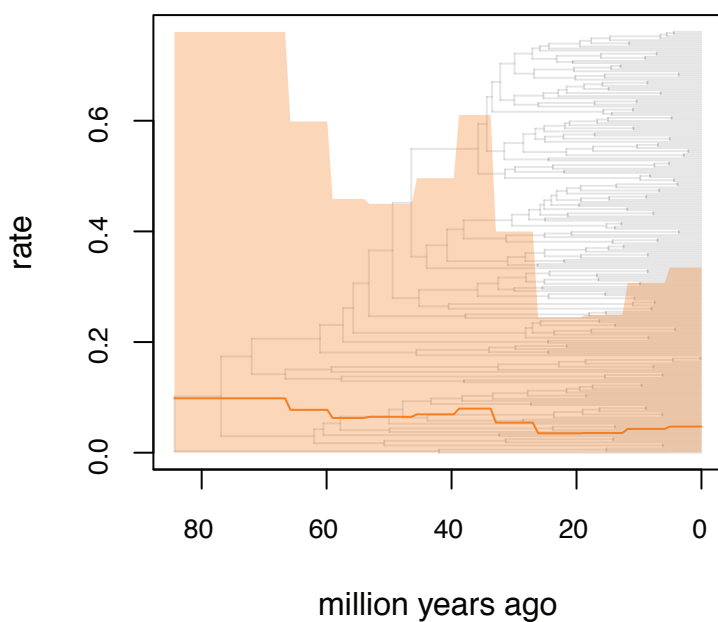
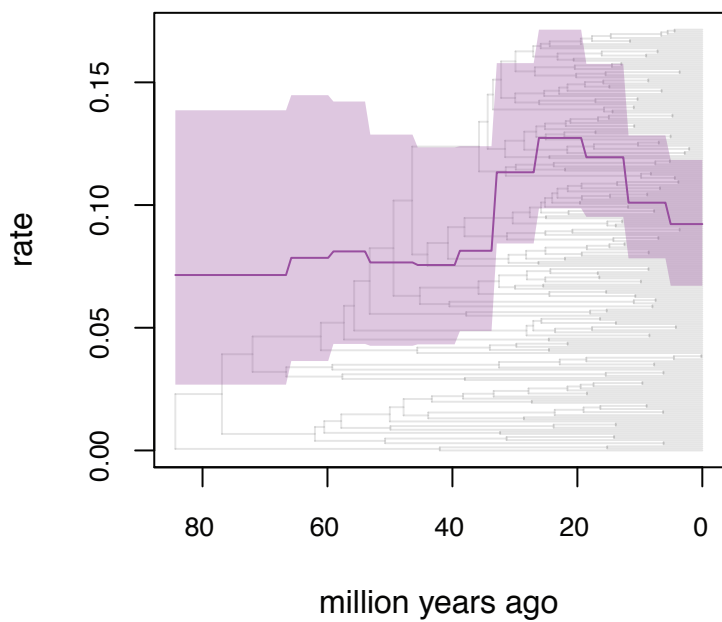
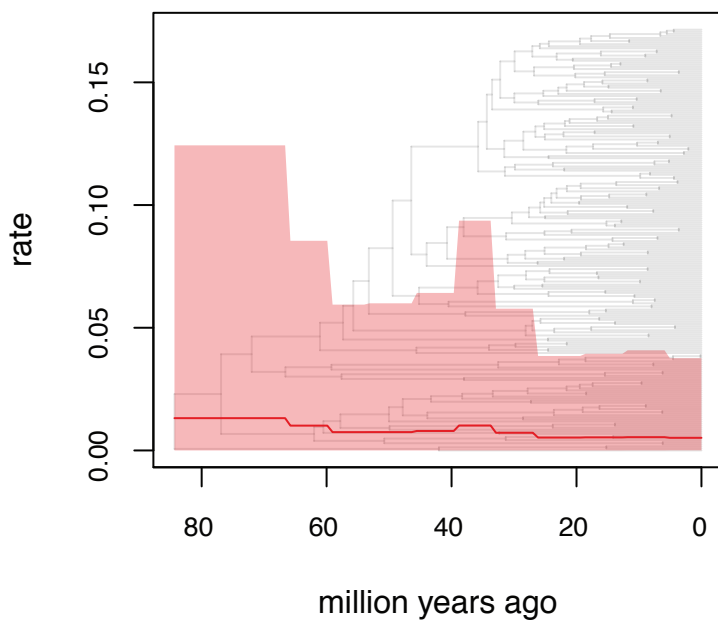


Figure S3B

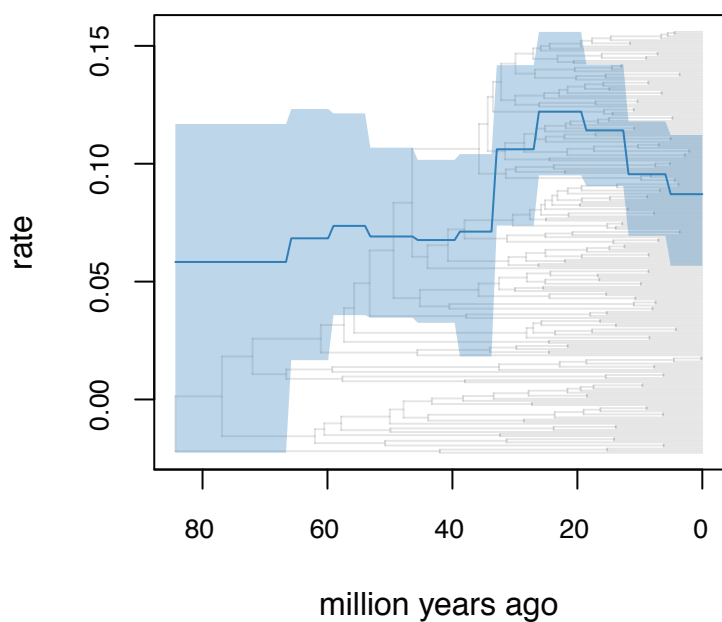
### speciation rate



### extinction rate



### net-diversification rate



### relative-extinction rate

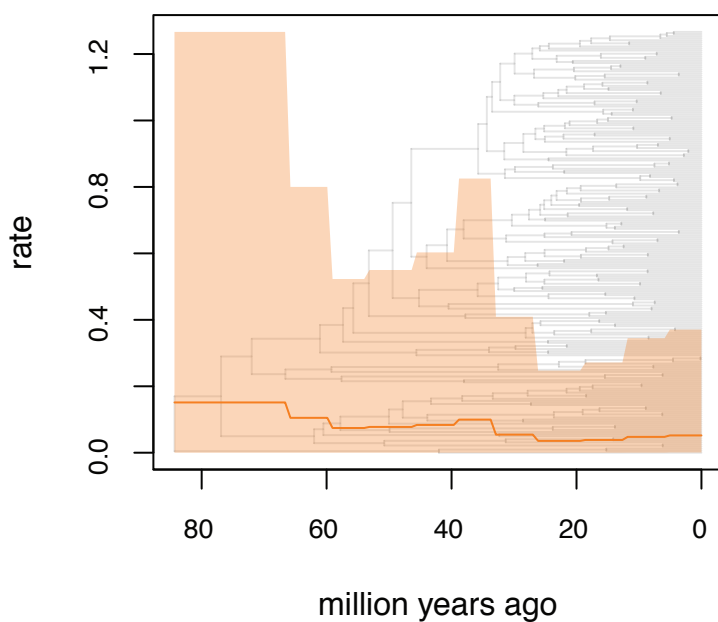
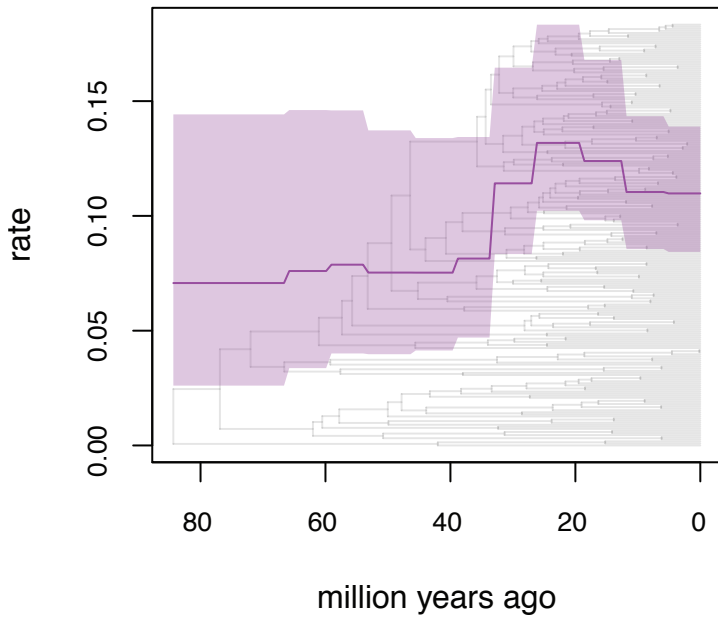
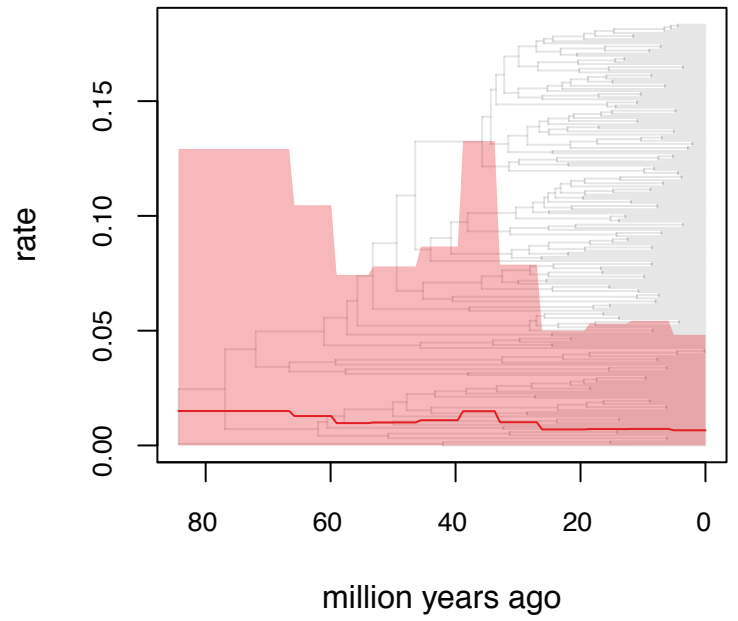


Figure S3C

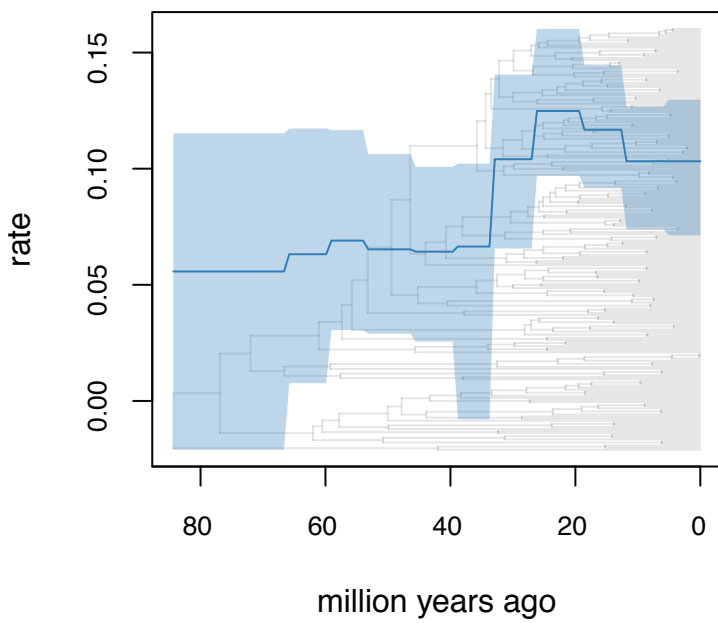
### speciation rate



### extinction rate



### net-diversification rate



### relative-extinction rate

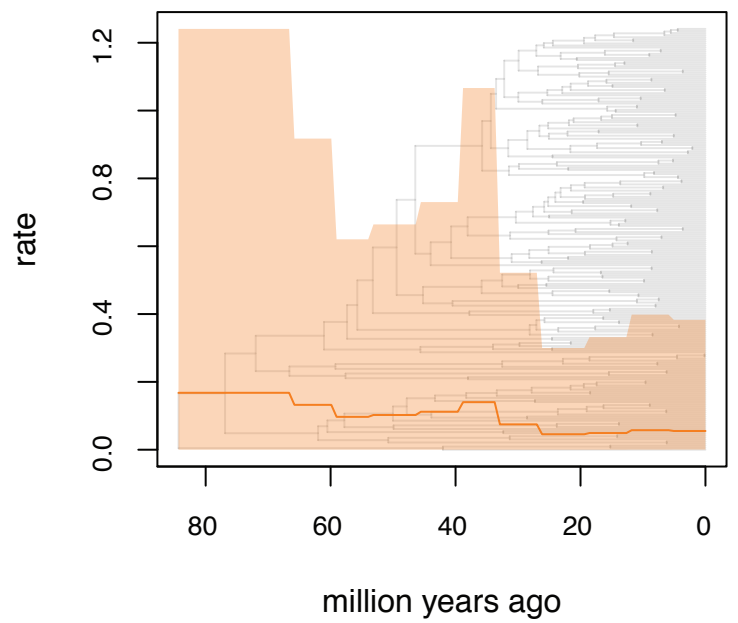
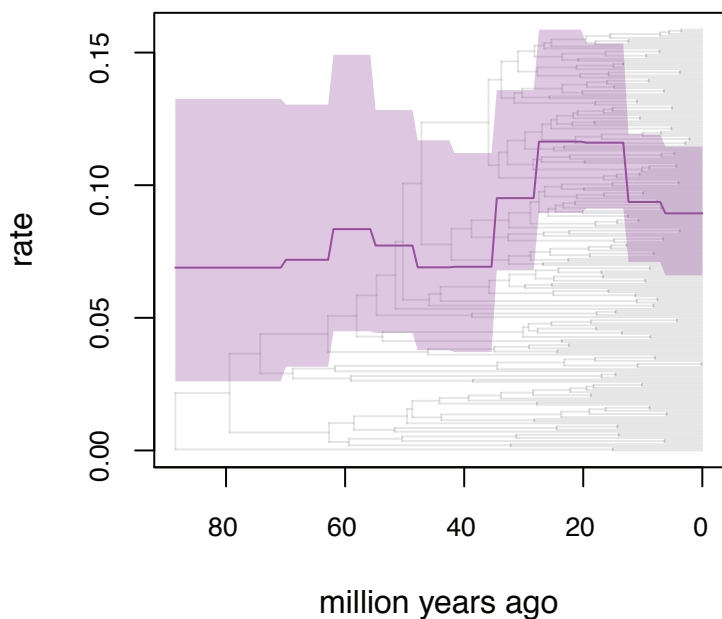
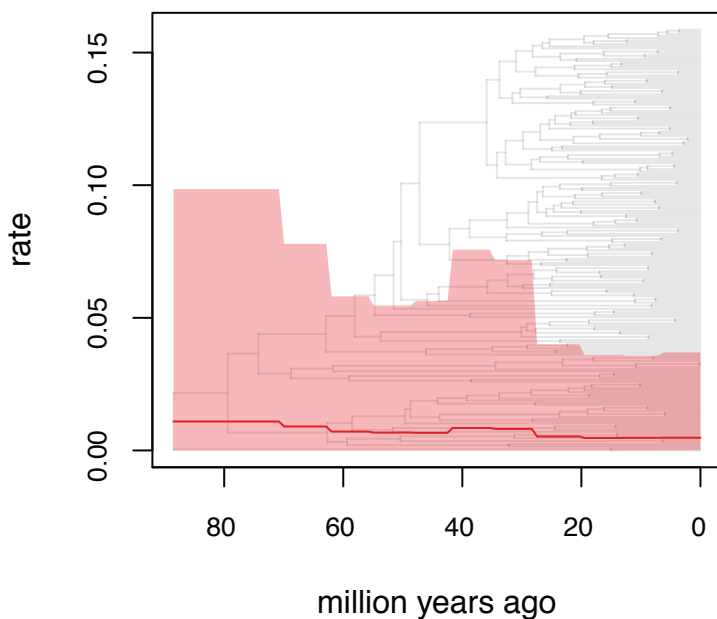


Figure S3D

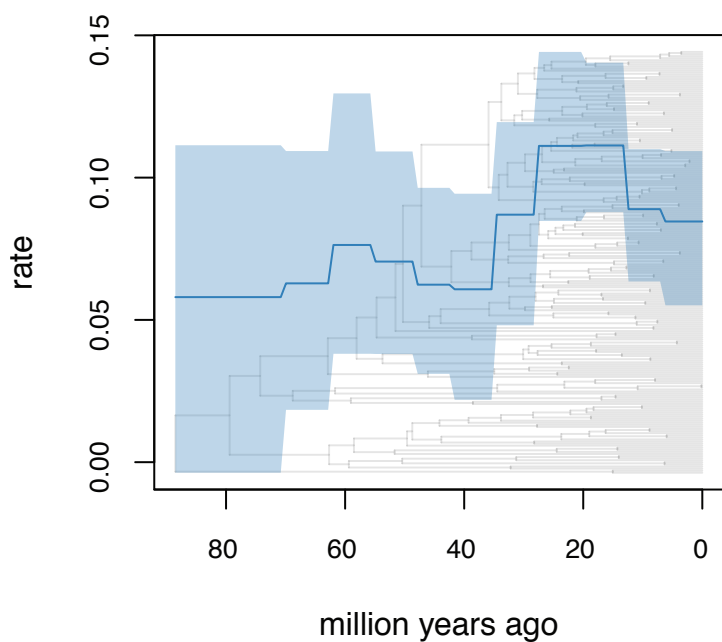
### speciation rate



### extinction rate



### net-diversification rate



### relative-extinction rate

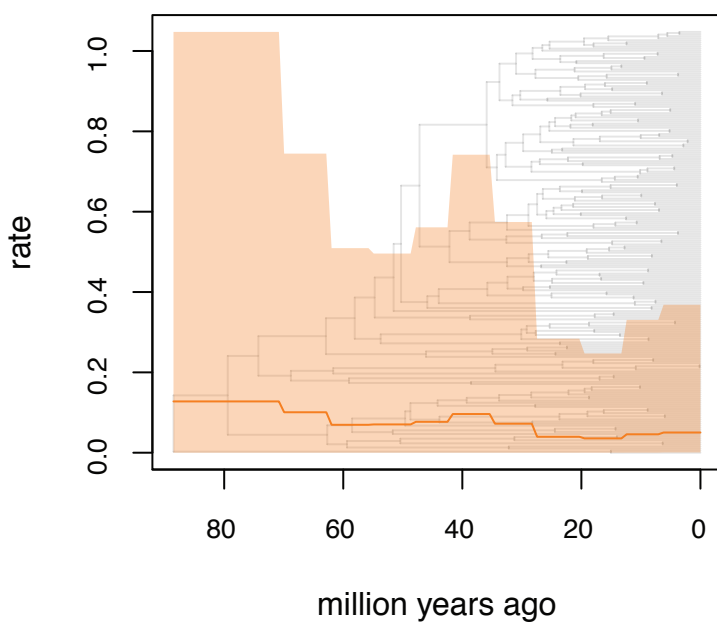
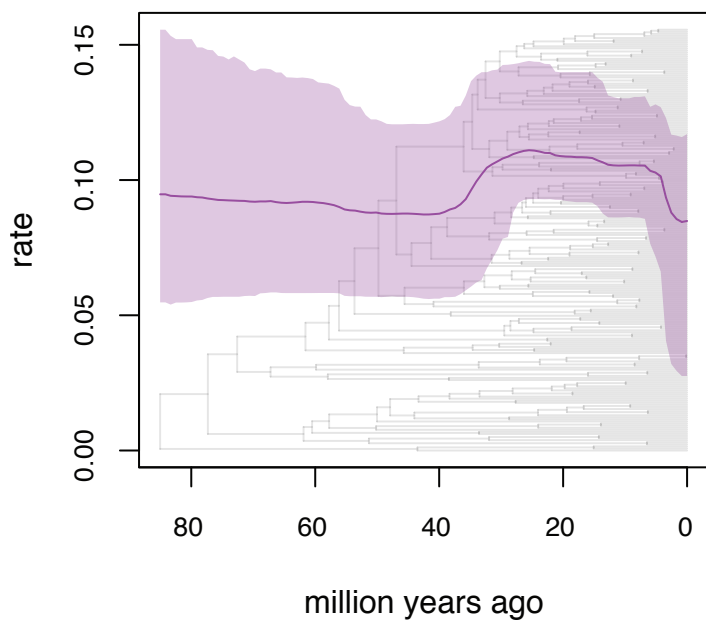
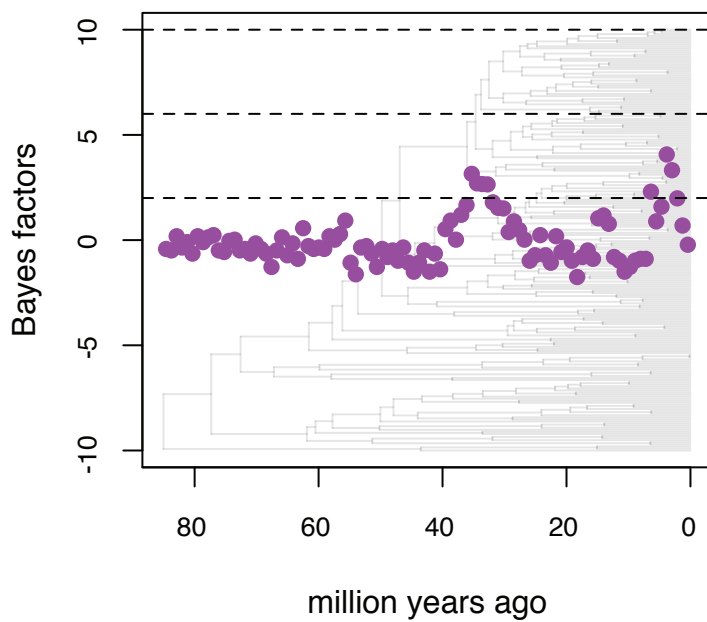


Figure S4A

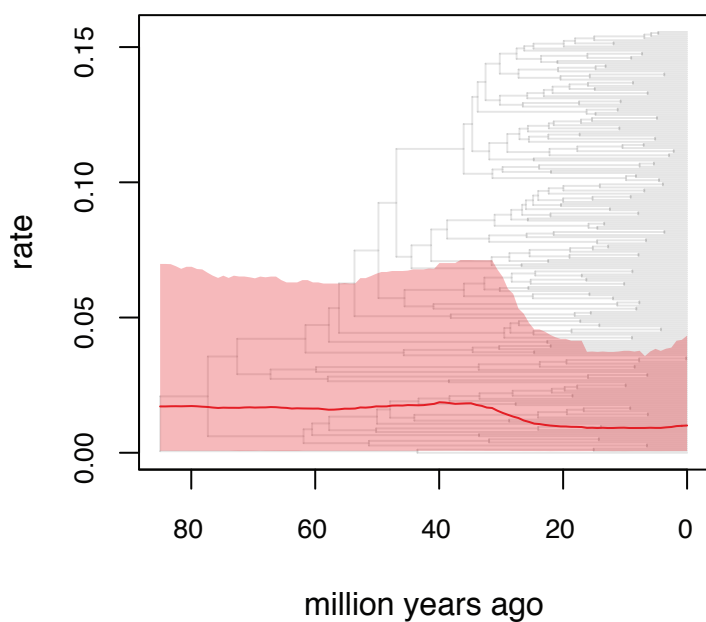
### speciation rates



### speciation Bayes factors



### extinction rates



### extinction Bayes factors

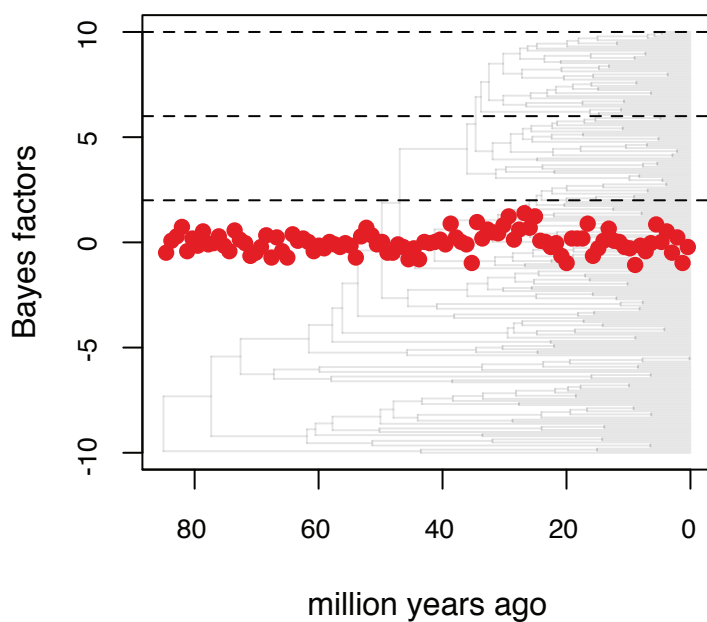
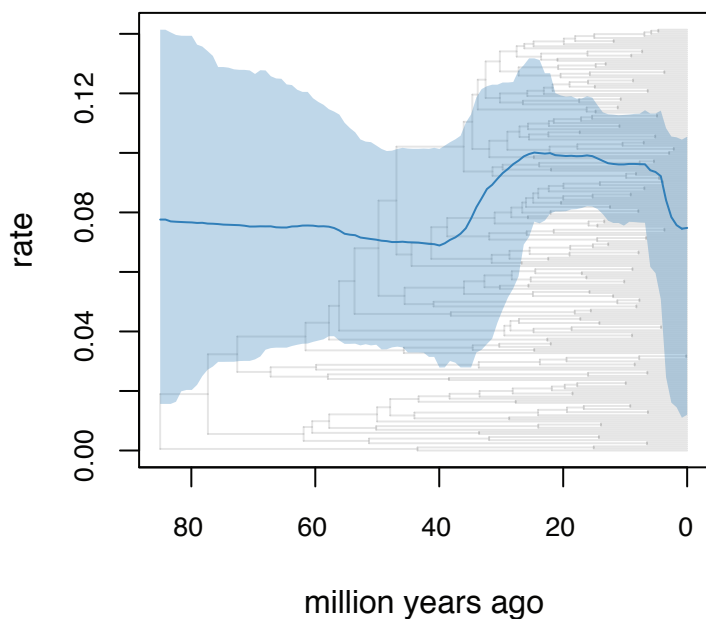
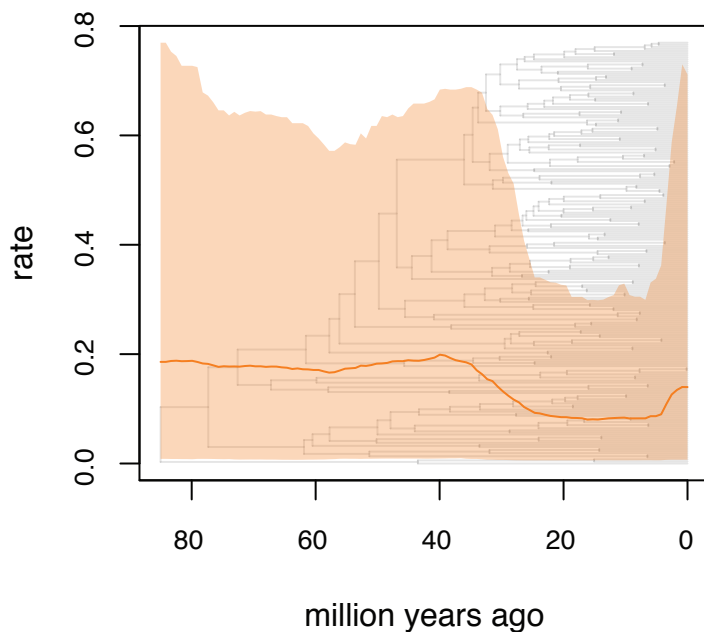


Figure S4B

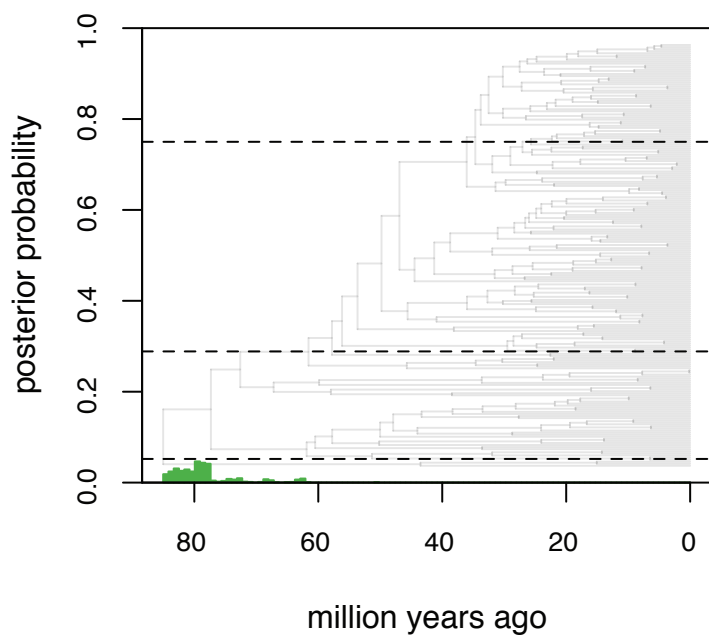
### net-diversification rates



### relative-extinction rates



### mass extinction times



### mass extinction Bayes factors

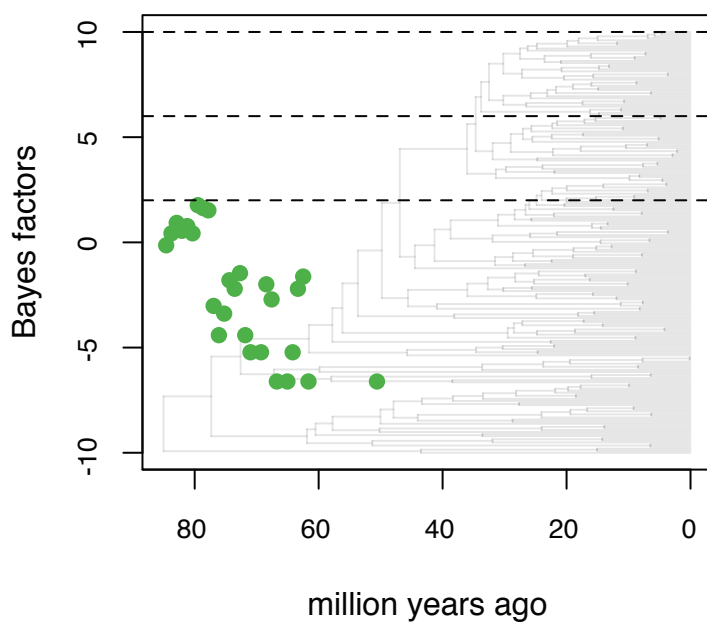
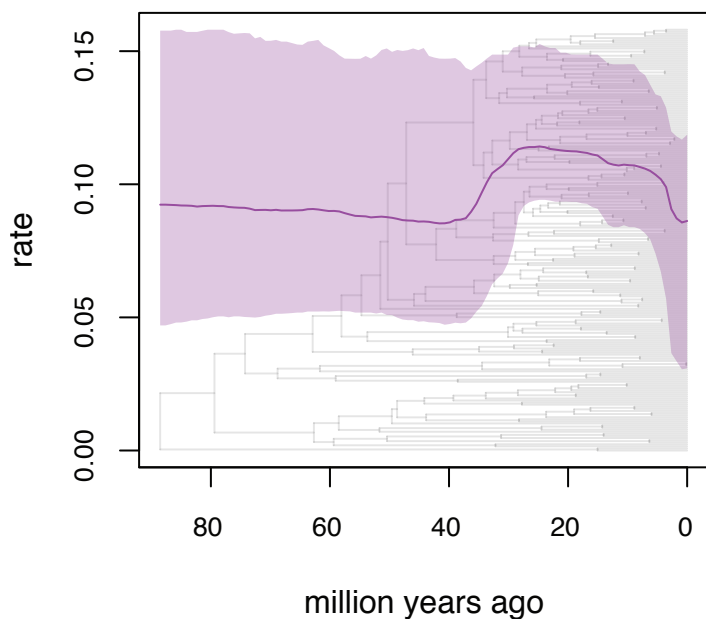
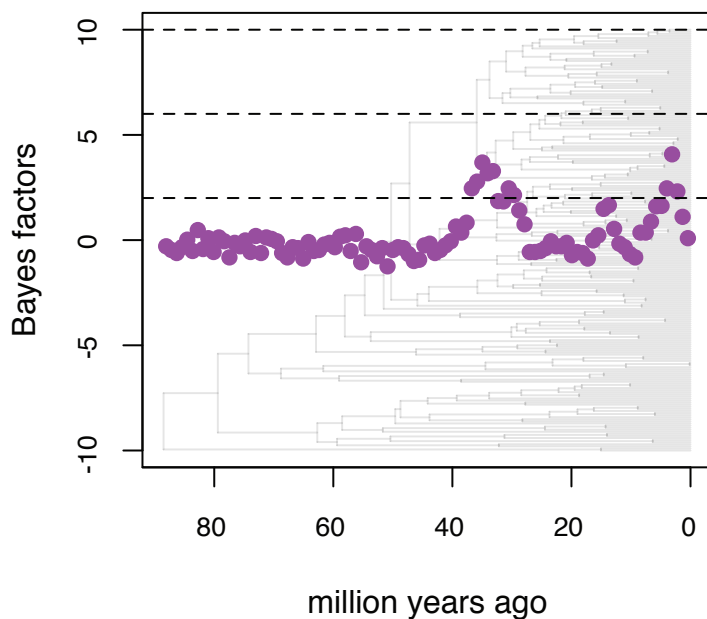


Figure S4C

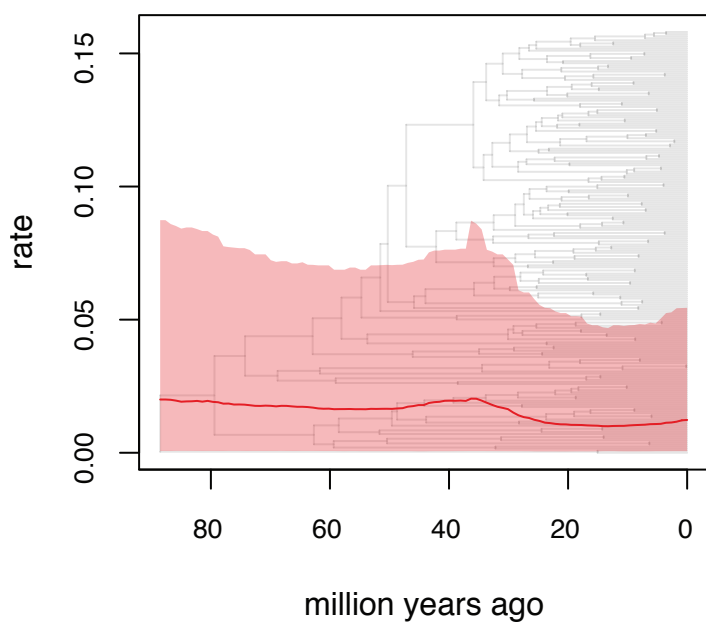
### speciation rates



### speciation Bayes factors



### extinction rates



### extinction Bayes factors

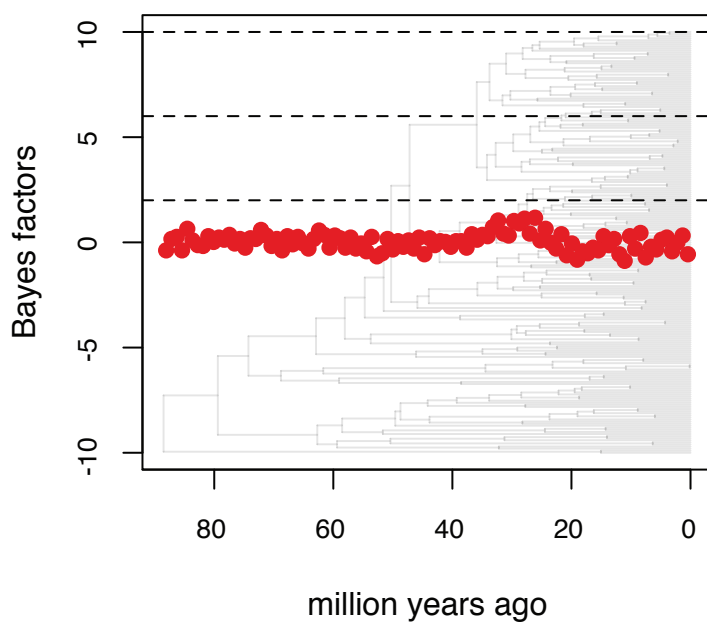
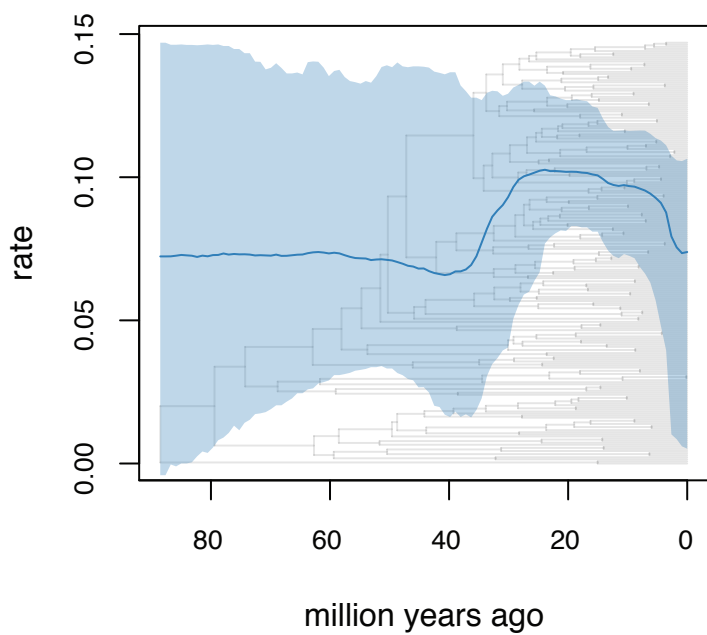


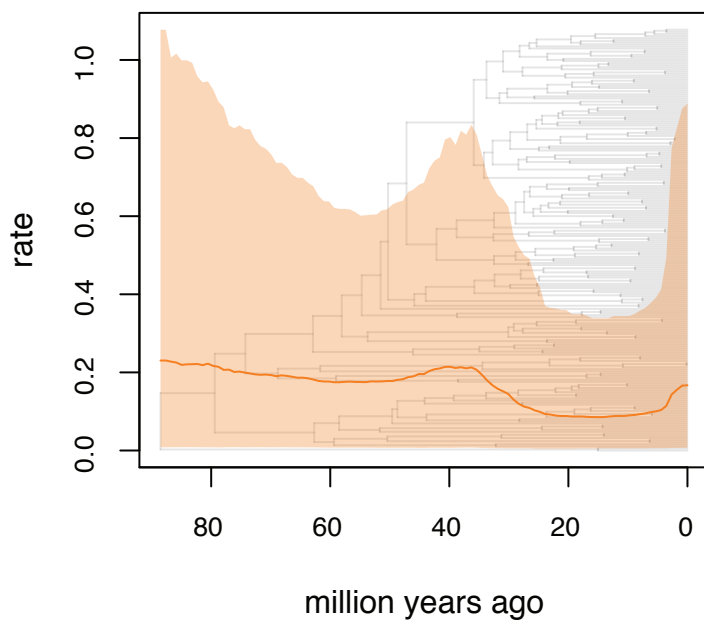


Fig. S4D

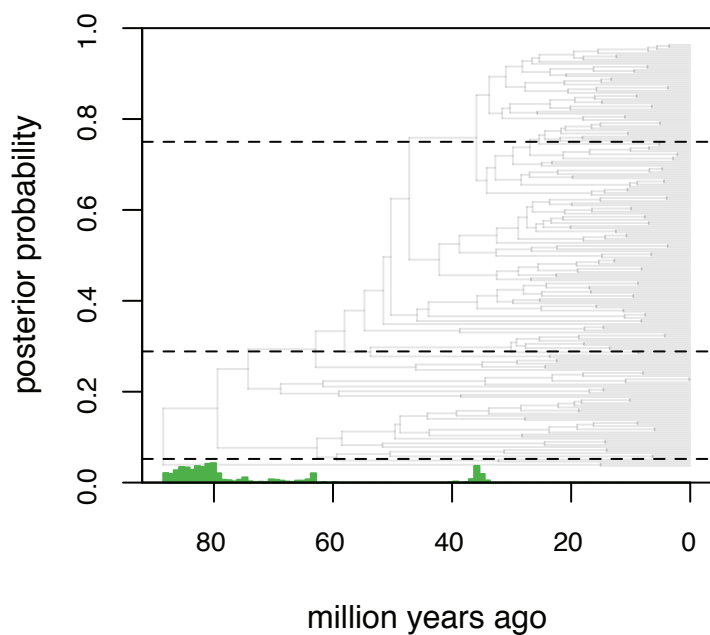
### net-diversification rates



### relative-extinction rates



### mass extinction times



### mass extinction Bayes factors

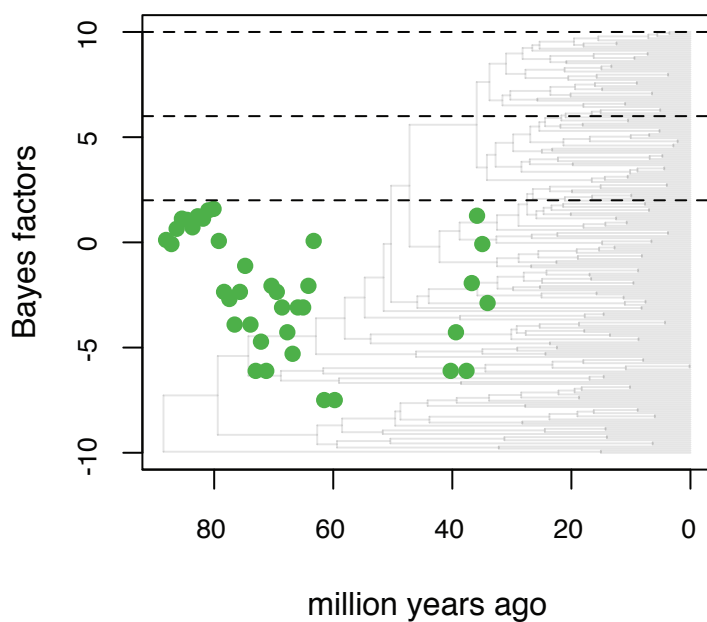
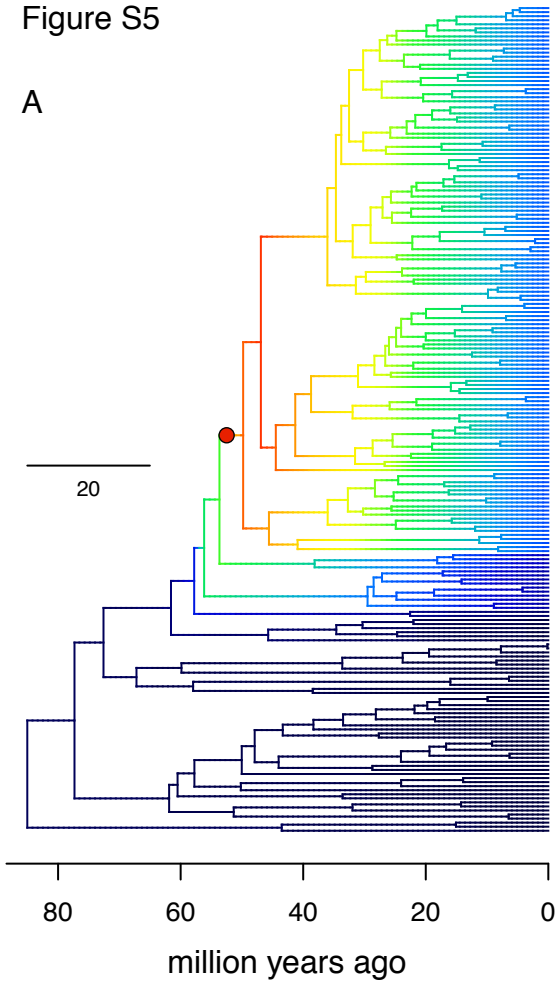
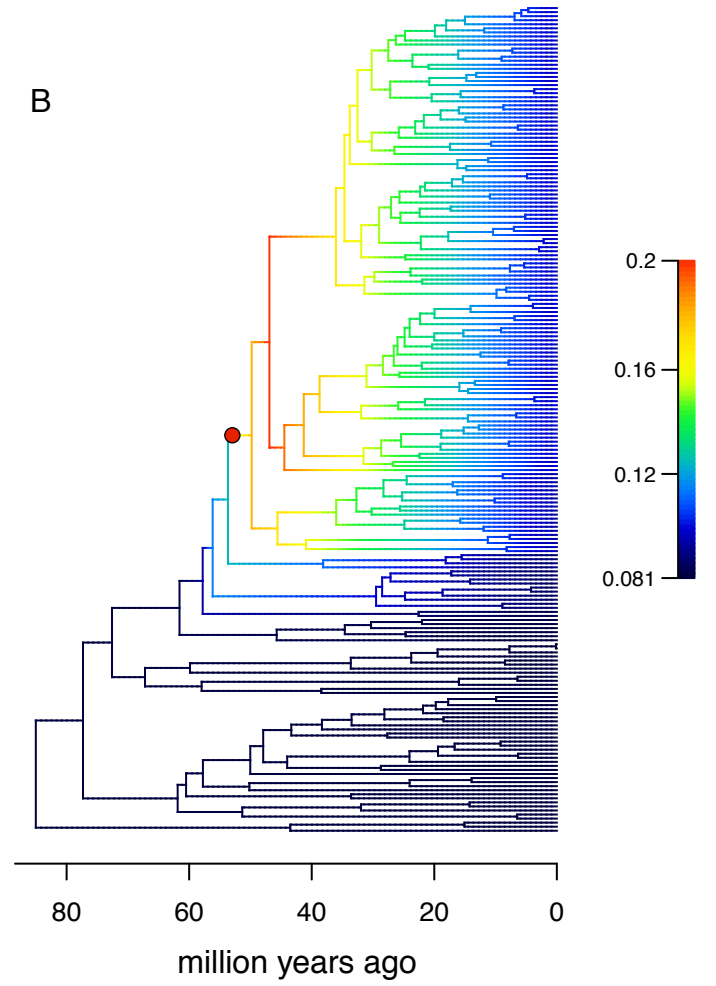


Figure S5

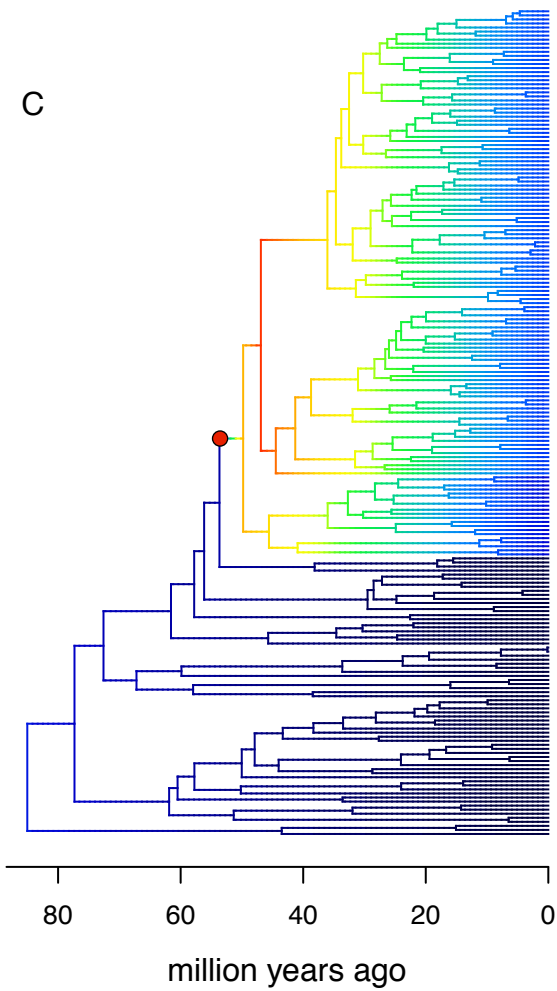
A



B



C



D

