

Supporting Information

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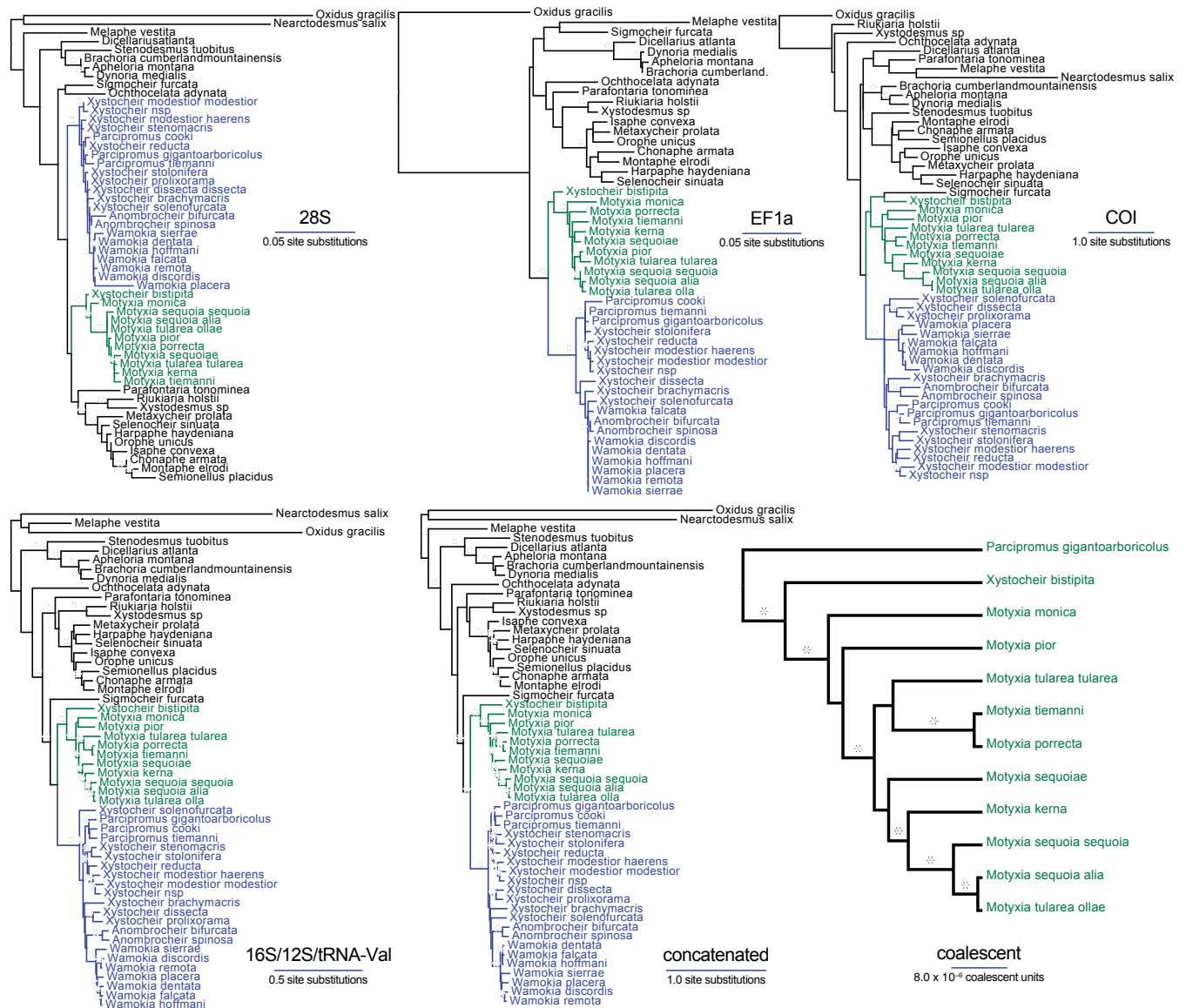


Fig. S1. Separate gene histories for the loci concatenated in Fig. S4 analyzed in RAXML and the *Motyxia* species phylogeny from the multispecies coalescent model in *BEAST. (Scale bar, expected substitutions per site.) Branch lengths of *BEAST tree are shown in coalescent units. Asterisks denote bootstrap/posterior probability support values $\geq 70\%$. [Nuclear: elongation factor-1 alpha (EF1-a); 28S ribosomal RNA (28S); mitochondrial: small subunit ribosomal RNA (16S/12S/tRNA-Val); and cytochrome c oxidase subunit I (COI)].

Table S1. Taxa sampled

Tribe	Species	Specimen no.	12S–16S	EF1a	28S	COI
Xystocheirini	<i>Anombrocheir bifurcata</i>	MTX0174	JN383854	JN383878	KR135885	KR135987
	<i>Anombrocheir spinosa</i>	MTX0180	JN383855	JN383879	KR135886	KR135988
	<i>Motyxia kerna</i>	MTX0129	JN383849	JN383874	KR135897	KR135999
	<i>Motyxia monica</i>	MTX0008	JN383871	JN383847	KR135898	KR136000
	<i>Motyxia pior</i>	MTX0022	JN383848	JN383872	KR135899	KR136001
	<i>Motyxia porrecta</i>	MTX0006/253	JN383851	JN383877	KR135938	KR136002
	<i>Motyxia sequoia alia</i>	MTX0242	KR135952	KR136052	KR135900	KR136003
	<i>Motyxia sequoia sequoia</i>	MTX0249	KR135954	KR136054	KR135902	KR136005
	<i>Motyxia sequoiae</i>	JN383850	JN383850	JN383875	KR135901	KR136004
	<i>Motyxia tiemanni</i>	MTX0011	JN383852	JN383876	KR135903	KR136006
	<i>Motyxia tularea ollae</i>	MTX0228	KR135955	KR136055	KR135904	KR136007
	<i>Motyxia tularea tularea</i>	MTX0033	JN383853	JN383873	KR135905	KR136008
	<i>Parcipromus cooki</i>	MTX0431	KR135961	KR136060	KR135911	KR136014
	<i>Parcipromus giganteoarboreolus</i>	MTX0021	JN383856	JN383882	KR135912	KR136015
	<i>Parcipromus tiemanni</i>	MTX0040	JN383857	JN383883	KR135913	KR136016
	<i>Wamokia dentata</i>	MTX0334	KR135968	KR136065	KR135919	KR136022
	<i>Wamokia discordis</i>	MTX0335	KR135969	KR136066	KR135920	KR136023
	<i>Wamokia falcata</i>	MTX0329	KR135970	KR136067	KR135921	KR136024
	<i>Wamokia hoffmani</i>	MTX0183/324	JN383859	JN383880	KR135922	KR136025
	<i>Wamokia placera</i>	MTX0340	KR135971	KR136068	KR135923	KR136026
	<i>Wamokia remota</i>	MTX0313	KR135972	KR136069	KR135924	—
	<i>Wamokia sierrae</i>	MTX0303	KR135973	KR136070	KR135925	KR136027
	<i>Xystocheir bistipita</i>	MTX0452	KR135976	KR136073	KR135926	KR136030
	<i>Xystocheir brachymacris</i>	MTX0182	JN383860	JN383881	KR135927	KR136031
	<i>Xystocheir dissecta dissecta</i>	MTX0437	KR135977	KR136074	KR135928	KR136032
	<i>Xystocheir modestior haerens</i>	MTX0381	KR135978	KR136075	KR135929	KR136033
	<i>Xystocheir modestior modestior</i>	MTX0371	KR135979	KR136076	KR135930	KR136034
	<i>Xystocheir Sierra</i>	MTX0395	KR135980	KR136077	KR135931	KR136035
	<i>Xystocheir prolixorama</i>	MTX0442	KR135981	—	KR135932	KR136036
	<i>Xystocheir reducta</i>	MTX0407	KR135982	KR136078	KR135933	KR136037
	<i>Xystocheir solenofurcata</i>	MTX0308	KR135983	KR136079	KR135934	KR136038
<i>Xystocheir stenomacris</i>	MTX0396	KR135984	—	KR135935	KR136039	
<i>Xystocheir stolonifera</i>	MTX0383	KR135985	KR136080	KR135936	KR136040	
Sigmocheirini	<i>Ochthocelata adynata</i>	MTX0152	JN383846	JN383885	KR135907	KR136010
	<i>Sigmocheir furcata</i>	MTX0367	KR135966	KR136064	KR135917	KR136020
Orophini	<i>Orophe unicus</i>	MTX0126	JN383865	JN383868	KR135908	KR136011
Xystodesmini	<i>Harpaphe haydeniana haydeniana</i>	MTX0137	JN383862	JN383870	KR135892	KR135994
	<i>Isaphe convexa</i>	MTX0106	JN383863	JN383869	KR135893	KR135995
	<i>Riukiaria holstii</i>	MTX0191	KR135963	KR136062	KR135914	KR136017
	<i>Semionellus placidus</i>	MTX0460	KR135965	—	KR135916	KR136019
	<i>Xystodesmus</i> sp.	MTX0186	KR135986	KR136081	KR135937	KR136041
	<i>Xystodesmus</i> sp.	MTX0097	JN383861	JN383866	KR135889	KR135991
Chonaphini	<i>Chonaphe armata</i>	MTX0097	JN383861	JN383866	KR135889	KR135991
	<i>Metaxycheir prolata</i>	MTX0107	KR135949	KR136047	KR135895	KR135997
	<i>Montaphe elrodi</i>	MTX0083	KR135950	KR136048	KR135896	KR135998
	<i>Selenocheir sinuata</i>	MTX0319	KR135964	KR136063	KR135915	KR136018
Rhysodesmini	<i>Stenodesmus tuobitus</i>	MTX0199	KR135967	—	KR135918	KR136021
Apheloriini	<i>Apheloria montana</i>	SPC000134	DQ490660	KR136042	KR135887	KR135989
	<i>Brachoria cumberlandmountainensis</i>	SPC000651	EU127864	KR136043	KR135888	KR135990
	<i>Dynoria medialis</i>	SPC000431	DQ490700	KR136045	KR135891	KR135993
Pachydesmini	<i>Dicellarius atlanta</i>	SPC000428	DQ490648	KR136044	KR135890	KR135992
Melaphinae	<i>Melaphe vestita</i>	MEL1	KR135948	KR136046	KR135894	KR135996
Parafontariinae	<i>Parafontaria tonominea</i>	MTX0189	KR135960	KR136059	KR135910	KR136013
Trichopolydesmidae	<i>Nearctodesmus salix</i>	MTX0215	KR135958	—	KR135906	KR136009
Paradoxosomatidae	<i>Oxidus gracilis</i>	MTX0216	KR135959	KR136058	KR135909	KR136012

—, denotes missing data.