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Supplementary Material

A new genus of scutigerid centipede from southern South America with the description of two new species and an updated molecular phylogeny of the myriapod order Scutigeromorpha (Myriapoda: Chilopoda)

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Table S1. Scutigeromorph and outgroup sampling, MCZ accession numbers, country of origin and sequenced gene fragments.

	MCZ number		*18S rRNA*	*28S rRNA a*	*28S rRNA b*	*28S rRNA c*	*16S rRNA*	*COI*	*12S rRNA*
Outgroups									
Lithobius variegatus rubriceps	IZ-131540		AF000773	–	–	–	AY084071	AF334311	–
Anopsobius neozelanicus	IZ-131464		AF173248	DQ222132	DQ222132	DQ222132	AF334337	DQ222165	–
Paralamyctes validus	IZ-131508		AF334289	–	–	–	AF334358	AF334330	–
Craterostigmus tasmanianus	IZ-132142		AF000774	DQ222133	DQ222133	DQ222133	AF370860	AF370835	–
Scolopendra viridis	IZ-130727		DQ201419	–	DQ222134	DQ222134	DQ201425	DQ201431	–
Pselliodidae									
Sphendononema guildingii	IZ-130902	Brazil	DQ222122	DQ222139	DQ222139	DQ222139	DQ222154	DQ222168	FJ660871
Sphendononema rugosa	IZ-130921	Cameroon	HQ591445	HQ591446	HQ591447	HQ591447	HQ591448	HQ591450	HQ591453
Scutigerinidae									
Scutigerina hova	IZ-130880	Madagascar	DQ222120	–	–	–	DQ222153	–	–
Scutigerina malagassa	IZ-130937	Madagascar	DQ222119	KF218758	KF218758	KF218758	DQ222152	DQ222167	FJ660869
Scutigerina weberi	IZ-130938	Swaziland	AY288689	–	AY288705	DQ222135	AY288717	AY288741	–
Scutigerina weberi	IZ-130934	South Africa	KF218741	KF218759	KF218759	KF218759	KF218776	KF218788	KF218811
Scutigerina weberi	IZ-130935	South Africa	KF218742	KF218760	KF218760	KF218760	KF218777	–	KF218813
Scutigerina weberi	IZ-130936	South Africa	KF218743	–	KF218761	KF218761	–	KF218789	KF218812
Scutigerina cf. *weberi*	IZ-130939	Madagascar	DQ222118	–	–	–	DQ222151	DQ222166	FJ660870
Scutigeridae, Scutigerinae									
Dendrothereua homa	IZ-142974	Arizona, USA	FJ660705	FJ660746	FJ660746	FJ660746	FJ660786	FJ660818	FJ660873
Dendrothereua nubila	IZ-130879	Costa Rica	FJ660704	FJ660744	FJ660745	FJ660745	FJ660785	FJ660817	FJ660872
Dendrothereua sp.	IZ-130874	Mexico	KF218744	KF218765	KF218766	–	KF218778	KF218790	–
Dendrothereua sp.	IZ-130875	Mexico	KF218745	KF218767	KF218767	–	KF218779	KF218791	–
Dendrothereua sp.	IZ-130876	Mexico	KF218746	–	KF218768	KF218768	–	KF218792	–
Dendrothereua sp.	IZ-130920	Dominican Republic	KF218747	KF218769	KF218769	KF218769	KF218780	–	–
Dendrothereua sp.	IZ-89420	Guatemala	KF218748	–	–	–	KF218781	KF218794	–
Dendrothereua sp.	IZ-125268	Nicaragua	KF218749	KF218771	KF218772	KF218772	–	KF218793	–
Scutigera coleoptrata	IZ-130907	Turkey	FJ660707	FJ660748	FJ660748	FJ660748	FJ660788	–	FJ660876
Scutigera coleoptrata	IZ-130908	Georgia	FJ660708	FJ660749	FJ660749	FJ660749	–	FJ660819	FJ660877
Scutigera coleoptrata	IZ-130911	Bulgaria	FJ660711	FJ660752	FJ660752	FJ660752	FJ660791	FJ660820	FJ660880
Tachythereua sp.	IZ-142970	Senegal	FJ660716	FJ660756	FJ660756	FJ660756	FJ660795	–	FJ660884
Scutigeridae, *incertae sedis*									
Edgethereua chilensis, sp. nov.	IZ-152997	Chile	**PP086649**	**PP086651**	**PP086651**	**PP086651**	**PP086653**	**PP086508**	**PP086655**
Edgethereua chilensis, sp. nov.	IZ-152998	Chile	**PP086650**	**PP086652**	**PP086652**	**PP086652**	**PP086654**	**–**	**–**
Ballonema gracilipes	IZ-130943	Papua New Guinea	KF218750	–	–	–	HQ591449	–	HQ591454
Ballonema sp.	IZ-130940	Papua New Guinea	KF218751	KF218762	KF218762	KF218762	KF218782	KF218796	–
Ballonema sp.	IZ-130941	Papua New Guinea	KF218752	KF218763	KF218763	KF218763	KF218783	KF218795	KF218814
Ballonema sp.	IZ-130942	Papua New Guinea	KF218753	KF218764	KF218764	KF218764	KF218784	KF218797	KF218815
Lassophora nossibei	IZ-130917	Madagascar	FJ660714–5	FJ660755	FJ660755	FJ660755	FJ660794	FJ660821	FJ660883
Lassophora sp.	IZ-130933	Mozambique	KF218754	KF218773	KF218773	KF218773	KF218785	KF218798	KF218816
Scutigeridae, Thereuoneminae									
Allothereua bidenticulata	IZ-130863	NSW, Australia	FJ660717	FJ660757	FJ660757	FJ660757	FJ660796	FJ660822	FJ660885
Allothereua linderi	IZ-130865/IZ-130866	NSW, Australia	DQ222128	DQ222147	DQ222147	DQ222147	DQ222160	DQ222174	FJ660886
Allothereua maculata	IZ-130867	WA, Australia	FJ660720	FJ660759	FJ660759	FJ660759	FJ660798	FJ660823	FJ660888
Allothereua maculata	IZ-130871	WA, Australia	FJ660724	FJ660763	FJ660763	FJ660763	FJ660802	FJ660827	FJ660892
Allothereua serrulata	IZ-130872	NSW, Australia	DQ222129	DQ222148	DQ222148	DQ222148	DQ222161	DQ222175	FJ660893
Parascutigera festiva	IZ-130888	New Caledonia	FJ660725	FJ660766	FJ660766	FJ660766	FJ660803	FJ660828	FJ660895
Parascutigera guttata	IZ-130891	Qld, Australia	FJ660726	FJ660767	FJ660767	FJ660767	FJ660804	FJ660829	FJ660896
Parascutigera latericia	IZ-130894	New Caledonia	FJ660730	FJ660770	FJ660770	FJ660770	FJ660807	FJ660830	–
Parascutigera nubila	IZ-130896	New Caledonia	KF218755	–	FJ660772	FJ660772	FJ660808	FJ660832	FJ660898
Parascutigera sp.	IZ-130884	Qld, Australia	FJ660735	–	–	–	FJ660809	FJ660834	FJ660900
Parascutigera sp.	IZ-130883	Qld, Australia	FJ660736	FJ660776	FJ660776	FJ660776	FJ660810	–	FJ660901
Parascutigera sp.	IZ-130885	Qld, Australia	FJ660737	FJ660777	FJ660777	FJ660777	FJ660811	FJ660835	FJ660902
Parascutigera cf. *sphinx*	IZ-130898	WA, Australia	FJ660740	FJ660780	FJ660780	FJ660780	FJ660813	FJ660838	FJ660905
Pilbarascutigera incola	IZ-130864	WA, Australia	FJ660742	FJ660782	FJ660783	FJ660783	FJ660815	–	FJ660907
Thereuoneminae sp.	IZ-103188	Guam	KF218756	KF218774	KF218774	KF218774	KF218786	KF218799	–
Thereuoneminae sp.	IZ-103200	Micronesia	KF218757	–	KF218775	KF218775	KF218787	KF218800	–
Thereuonema tuberculata	IZ-130925	Japan	DQ222126	DQ222145	DQ222145	DQ222145	DQ222158	DQ222173	FJ660908
Thereuonema turkestana	IZ-130926/IZ-130927	Uzbekistan	DQ201417	DQ222144	DQ222144	DQ222144	DQ201423	DQ201427	FJ660909
Thereuopoda clunifera	IZ-130928	Japan	AF173239	DQ222142	DQ222142	DQ222142	AY288716	DQ222171	FJ660910
Thereuopoda longicornis	IZ-130929	Thailand	DQ222125	DQ222143	DQ222143	DQ222143	DQ222157	DQ222172	–
Thereuopodina, sp. nov.	IZ-130930	Qld, Australia	DQ222127	DQ222146	DQ222146	DQ222146	DQ222159	–	FJ660911

New sequences appear in bold. The *28S* rRNA gene is listed in three different amplicons. Dashes indicate missing amplicon.