

Table S3. List of species used for the study with GenBank accession numbers for 18S rDNA hypervariable region V4.

Family	Subfamily	Species	Geographic origin	GenBank accession number for the 18S rDNA hypervariable region V4	Source
Cydnidae	Amaurocorinae	<i>Amaurocoris curtus</i> (Brullé, 1838)	Cyprus	OR691635	present study
	Amnestinae	<i>Amnestus pusio</i> (Stål, 1860)	Guatemala	OR691636	present study
		<i>Amnestus zacki</i> Mayorga & Cervantes, 2009	Guatemala	OR691637	present study
		<i>Lattinestus barrerae</i> Mayorga & Brailovsky, 2012	Guatemala	OR691650	present study
	Cephalocteinae	<i>Stibaropus indonesicus</i> J.A. Lis, 1991	Brunei	OR691659	present study
	Garsauriinae	<i>Garsauria aradoidea</i> Walker, 1868	Brunei	OR691647	present study
	Cydniinae	<i>Adrisa magna</i> (Uhler, 1861)	Japan	KY911199	[1]
		<i>Adrisa romani</i> J.A. Lis, 1994	Thailand	OR691631	present study
		<i>Aethus holothrix</i> Linnavuori, 1977	Namibia	OR691632	present study
		<i>Aethus pseudindicus</i> J.A. Lis, 1993	Vietnam	OR691633	present study
		<i>Alonips obsoletus</i> Signoret, 1881	Australia	OR691634	present study
		<i>Byrsinus pseudosyriacus</i> (Linnavuori, 1977)	Namibia	OR691638	present study
		<i>Byrsinus varians</i> (Fabricius, 1803)	Guam	OR691639	present study
		<i>Chilocoris confusus</i> Horváth, 1919	Japan	OR691641	present study
		<i>Chilocoris laevicollis</i> Horváth, 1919	Kenya	OR691642	present study
		<i>Chilocoris piceus</i> Signoret, 1884	Thailand	OR691643	present study
		<i>Cydnus aterrimus</i> (Forster, 1771)	Italy	KY911202	[1]
		<i>Cyrtomenus emarginatus</i> Stål, 1862	Guatemala	OR691644	present study
		<i>Fromundus pygmaeus</i> (Dallas, 1851)	Taiwan	KJ535871	[2]
		<i>Geotomus convexus</i> Hsiao, 1977	Japan	KY911203	[1]
		<i>Lactistes obesipes</i> Signoret, 1879	Australia	OR691648	present study
		<i>Lactistes vericulatus</i> Schiødte, 1848	Zambia	OR691649	present study
		<i>Macroscytus badius</i> (Walker, 1867)	India	OR691651	present study
		<i>Macroscytus brunneus</i> (Fabricius, 1803)	Namibia	KY911204	[1]
		<i>Macroscytus fraterculus</i> Horváth, 1919	Japan	OR691652	present study
		<i>Microporus nigrita</i> (Fabricius, 1794)	Poland	KY911205	[1]
		<i>Pangaeus bilineatus</i> (Say, 1825)	Guatemala	KY911207	[1]
		<i>Pangaeus rugiceps</i> Horváth, 1919	Guatemala	OR691654	present study
		<i>Parachilocoris minutus</i> (Distant, 1901)	Japan	OR691655	present study

		<i>Pseudoscoparipes fraterculus</i> J.A. Lis, 1994	Thailand	OR691656	present study
		<i>Pseudoscoparipes kinabalensis</i> J.A. Lis, 1994	Brunei	OR691657	present study
		<i>Rhytidoporus indentatus</i> Uhler, 1877	Guam	KY911208	[1]
	Sehirinae	<i>Adomerus biguttatus</i> (Linnaeus, 1758)	Poland	KY911198	[1]
		<i>Canthophorus niveimarginatus</i> Scott, 1874	Japan	OR691640	present study
		<i>Ochetostethomorpha secunda</i> J.A. Lis & B. Lis, 2014	Namibia	KY911206	[1]
		<i>Ochetostethus opacus</i> (Scholtz, 1847)	Poland	OR691653	present study
		<i>Sehirus luctuosus</i> Mulsant et Rey, 1866	Poland	OR691658	present study
		<i>Tritomegas bicolor</i> (Linnaeus, 1758)	Poland	OR691660	present study
		<i>Tritomegas sexmaculatus</i> (Rambur, 1839)	Poland	KY911210	[1]
Parastrachiidae		<i>Dismegistus sanguineus</i> (DeGeer, 1778)	Namibia (2012)	OR691645	present study
		<i>Parastrachia japonensis</i> (Scott, 1880)	Japan	EF641204	[3]
Thyreocoridae	Corimelaeninae	<i>Galgupha australis</i> McAtee & Malloch, 1933	Bolivia	OR691646	present study
	Thyreocorinae	<i>Thyreocoris scarabaeoides</i> (Linnaeus, 1758)	Poland	KY911214	[1]
Thaumastellidae (outgroup)		<i>Thaumastella elizabethae</i> Jacobs, 1989	South Africa	EF641221	[3]
		<i>Thaumastella namaquensis</i> Schaefer & Wilcox, 1971	South Africa	EF641222	[3]

## References

1. Lis J.A., Ziaja D., Lis B. & Gradowska P.A. 2017. Non-monophyly of the "cydnoid" complex within Pentatomoidea (Hemiptera: Heteroptera) revealed by Bayesian phylogenetic analysis of nuclear rDNA sequences. *Arthropod Systematics & Phylogeny*, **75**, 481–496.
2. Wu Y-Z., Yu S-S., Wang Y-H., Wu H-Y., Li X-R., Men X-Y., Zhang Y-W., Rédei D., Xie Q., Bu W-J. 2016. The evolutionary position of Lestoniidae revealed by molecular autapomorphies in the secondary structure of rRNA besides phylogenetic reconstruction (Insecta: Hemiptera: Heteroptera). *Zoological Journal of the Linnean Society* **1771**: 750–763.
3. Grazia J., Schuh R.T., Wheeler W.C. 2008. Phylogenetic relationships of family groups in Pentatomoidea based on morphology and DNA sequences (Insecta: Heteroptera). *Cladistics* **24**: 1–45.