

Supplementary data for the article:

Bodner, M.; Vagalinski, B.; Makarov, S. E.; Antić, D. Ž.; Vujisić, L. V.; Leis, H.-J.; Raspotnig, G. “Quinone Millipedes” Reconsidered: Evidence for a Mosaic-Like Taxonomic Distribution of Phenol-Based Secretions across the Julidae. *Journal of Chemical Ecology* **2016**, 42 (3), 249–258. <https://doi.org/10.1007/s10886-016-0680-4>

Supplemental Table S1: Collection of species

family		species	locality	date	specimens	voucher no.*
Blaniulidae		<i>Blaniulus dollfusi</i>	A Capela Caaveiro (A Coruña, Spain) 43°24'30.62"N, 8°3'24.96"W; 72m, leg. M. Bodner	Aug. 30, 2014	1 ♀	no voucher deposited
		<i>Proteroiulus fuscus</i>	Reidenau (Carinthia, Austria) 46°46'17.83"N, 14°16'59.69"E; 892m, leg. M. Bodner	Sept. 22, 2013	21 ♀	no voucher deposited
Julidae	Brachyiulini	<i>Brachyiulus lusitanus</i>	between Strumyani and Mikrevo (Blagoevgrad District, Bulgaria) 41°37'46.30"N, 23°12'11.17"E; 125m , leg. B. Vagalinski	May 11, 2014	1 ♂, 3 ♀	NHMW 8649 (1♂)
				Apr. 16, 2015	14 ♂, 5 ♀	NHMW 8650 (1♀)
		<i>Megaphyllum bosniense</i>	Plana Mt., SSE of Pasarel Village (Sofia District, Bulgaria) 42°31'19.27"N, 23°30'52.54"E , 900m, leg. B. Vagalinski	Sept. 25, 2011	5 ♂, 23 ♀	NHMW 8651 (1♂) NHMW 8652 (1♀)
		<i>Megaphyllum fagorum</i>	Hyrchan Nature Reserve, SW of Zünqüləş (Astara rayon, Azerbaijan) 38°26'53"N 48°45'35"E; 120m, leg. D. Antić, H. Reip & F. Walther	March 27, 2015	1 ♂, 2 ♀	FBIZO1110
		<i>Megaphyllum hercules</i>	Kresna Gorge, N of Kresna (Blagoevgrad District, Bulgaria), 41°47'44.63"N, 23°09'31.04"E; 241m, leg. B. Vagalinski	Apr. 15, 2012	6 ♂, 5 ♀	HNHM
		<i>Megaphyllum silvaticum</i>	Reidenau (Carinthia, Austria) 46°46'17.20"N, 14°16'56.24"E; 909m, leg. M. Bodner	May 31, 2014 June 15, 2014	1 ♂, 2 ♀ 10 ♀	HNHM

Cylindroiulini	<i>Allajulus dicentrus</i>	Maria Rain (Carinthia, Austria)	Oct. 15, 2011	7 ♂, 4 ♀	NHMW 8653 (1♂)
		46°33'2.48"N, 14°17'49.73"E; 516m,	Oct. 22, 2011	9 ♂, 12 ♀	NHMW 8654 (1♀)
		leg. M. Bodner	Nov. 6, 2011	8 ♂, 13 ♀	
	<i>Allajulus molybdinus</i>	Plabutsch (Styria, Austria)	June 20, 2011	1 ♂, 1 ♀	NHMW 8655 (1♂)
		47°5'16.78"N, 15°23'26.78"E; 615m,	Aug. 17, 2012	1 ♂, 6 ♀	NHMW 8656 (1♀)
		leg. M. Bodner	Aug. 21, 2012	4 ♀	
			June 09, 2013	3 ♂, 15 ♀	
	<i>Cylindroiulus apenninorum</i>	Tirrenia (Tuscany, Italy)	May 15, 2013	2 ♂, 25 ♀	NHMW 8657 (1♂)
		43°38'14.82"N, 10°17'47.79"E; 8m,	May 16, 2013	1 ♂, 4 ♀	NHMW 8658 (1♀)
		leg. M. Bodner			
		Tirrenia (Tuscany, Italy)	May 15, 2013	3 ♀	
		43°37'34.24"N, 10°17'27.47"E; 7m,			
		leg. M. Bodner			
	<i>Cylindroiulus boleti</i>	Eisenstadt, Gloriettwarte (Burgenland, Austria)	Apr. 20, 2011	3 ♂, 3 ♀	NHMW 8659 (1♂)
		47°51'19.17"N, 16°30'29.19"E;	Aug. 2, 2011	5 ♂	
		326m, leg. M. Bodner			
	<i>Cylindroiulus broti</i>	Clavel near Saxel, Saxel Municipal forest (Rhône-Alpes region, France)	May 14, 2015	2 ♂, 4 ♀	NHMW 8660 (1♂)
		46°14'29.22"N, 6°22'56.18"E;			NHMW 8661 (1♀)
		1050m, leg. B. Vagalinski			
	<i>Cylindroiulus caeruleocinctus</i>	Graz-Eggenberg (Styria, Austria)	Oct. 19, 2011	1 ♂, 6 ♀	NHMW 8662 (1♂)
		47°4'51.17"N, 15°24'2.84"E; 399m,	Nov. 04, 2011	1 ♂, 2 ♀	NHMW 8663 (1♀)
		leg. M. Bodner			
	<i>Cylindroiulus luridus</i>	Reidenau (Carinthia, Austria)	May 08, 2011	6 ♂, 3 ♀	NHMW 8664 (1♂)
		46°46'13.68"N, 14°16'39.64"E;			NHMW 8665 (1♀)
		970m, leg. M. Bodner			

	Vitosha Mt., Zheleznitsa Village (Sofia District, Bulgaria) 42°32'08.09"N, 23°21'44.85"E; 1135m, leg. B. Vagalinski	Oct. 07, 2011	6 ♂, 15 ♀	NHMW 8666 (1♂) NHMW 8667 (1♀)
<i>Cylindroiulus meinerti</i>	Reidenau (Carinthia, Austria) 46°46'13.68"N, 14°16'39.64"E; 970m, leg. M. Bodner	Apr. 04, 2011 May 08, 2011	1 ♂, 3 ♀ 3 ♂, 1 ♀	NHMW 8668 (1♂)
<i>Cylindroiulus</i> sp.	A Capela Caaveiro (A Coruña, Spain) 43°24'30.62''N, 8°3'24.96''W; 72m, leg. M. Bodner	Aug. 30, 2014	1 ♀	ZMUC00046996
<i>Enantiulus karawankianus</i>	Warmbad Villach (Carinthia, Austria) 46°35'17.01"N, 13°49'30.22"E; 524m, leg. M. Bodner	May 01, 2014	12 ♂, 1 ♀	NHMW 8669 (1♂)
<i>Enantiulus nanus</i>	Passau (Bavaria, Germany) 48°34'40.40"N, 13°28'0.53"E; 364m, leg. M. Bodner	March 29, 2014	25 ♂, 37 ♀	NHMW 8670 (1♂) NHMW 8671 (1♀)
<i>Enantiulus transsilvanicus</i>	Plabutsch (Styria, Austria) 47°5'16.78"N, 15°23'26.78"E; 615m, leg. M. Bodner	Aug. 17, 2012 June 09, 2013	1 ♂, 4 ♀ 4 ♂, 4 ♀	NHMW 8672 (1♂)
<i>Kryphioiulus occultus</i>	Passau (Bavaria, Germany) 48°34'40.40"N, 13°28'0.53"E; 364m, leg. M. Bodner	March 29, 2014	5 ♂, 14 ♀	NHMW 8673 (1♂) NHMW 8674 (1♀)
<i>Styrioiulus pelidnus</i>	Mairist (Carinthia, Austria) 46°44'57.35"N, 14°23'57.88"E; 493m, leg. M. Bodner	2011 May 18, 2012 June 23, 2012	1 ♂, 1 ♀ 1 ♂, 1 (undet.), 1 ♂	NHMW 8675 (1♂)

			Aug. 12, 2012	1 ♂	
		Warmbad Villach (Carinthia, Austria) 46°35'17.01"N, 13°49'30.22"E; 524m, leg. M. Bodner	May 1, 2014 Sept. 27, 2014	5 ♂, 9 ♀ 3 ♂, 1 ♀	NHMW 8676 (1♂) NHMW 8677 (1♀)
	<i>Styrioiulus styricus</i>	Plabutsch (Styria, Austria) 47°5'16.78"N, 15°23'26.78"E; 615m, leg. M. Bodner	Aug. 17, 2012 Aug. 21, 2012 June 9, 2013 July 4, 2014	3 ♂, 9 ♀ 3 ♀ 5 ♀ 2 ♂, 1 ♀	NHMW 8678 (1♂) NHMW 8679 (1♀)
Leptoiulini	<i>Lamellotyphlus sotirovi</i>	Buronov Ponor Pit, Mt. Miroc, E Serbia 44°33'31.04"N, 22°15'40.56"E; 290m, leg. D. Antić	June 22, 2015	5 ♂, 5 ♀	FBIZO 1120
	<i>Leptoiulus proximus</i>	Leechwald (Styria, Austria) 47°5'5.38"N, 15°27'47.41"E; 413m, leg. M. Bodner	Nov., 2011	5 ♂	NHMW 8680 (1♂)
	<i>Leptoiulus trilineatus</i>	Plana Mt., above Pasarel Village (Sofia District, Bulgaria), 42°31'19.27"N, 23°30'52.54"E; 900m, leg. B. Vagalinski	Sept. 25, 2011	5 ♂, 2 ♀	NHMW 8681 (1♂)
	<i>Ophiulus pilosus</i>	Plabutsch (Styria, Austria) 47°5'16.78"N, 15°23'26.78"E; 615m, leg. M. Bodner	June 20, 2011	2 ♂	NHMW 8682 (1♂)
	<i>Serboiulus deelemani</i>	Vetrena Dupka Cave, Vlasi Village, near Pirot, S Serbia 43°0'11.20"N, 22°37'55.70"E; 561m, leg. D. Antić	July 2014	5 ♂, 5 ♀	FBIZO 1160

<i>Serboiulus kresnik</i>	Gornja Lenovačka Pećina Cave, Lenovac Village, Mt. Tupižnica, E Serbia 43°46'30.71"N, 22°9'34.15"E; 335m, leg. D. Antić	July 2014	5 ♂, 5 ♀	FBIZO 1170
<i>Serboiulus lucifugus</i>	Prekonoška Pećina Cave, Prekonoga Village, near Svrljig, S Serbia 43°22'49.3"N, 22°6'7.7"E; 699m, leg. D. Antić	July 2014	5 ♂, 5 ♀	FBIZO 1180
<i>Typhloiulus bureschi</i>	Svinskata Cave by Lakatnik railway station (Sofia District, Bulgaria) 43°05'17.03"N, 23°22'20.94"E; 480m , leg. B. Vagalinski & P. Mitov	Apr. 4, 2013	4 ♀	NHMW 8683 (1♀)
<i>Typhloiulus georgievi</i>	Toplya Cave by Golyama Zhelyazna Village (Lovech District, Bulgaria) 42°56'53.88"N, 24°29'15.00"E; 466m , leg. B. Vagalinsk	Nov. 11, 2014	4 ♂, 4 ♀	NHMW 8684 (1♂)
<i>Typhloiulus lobifer</i>	Minjera Cave, near Škripa, Brač, Croatia 43°21'41.31"N, 16°36'22.39"E; 203m , leg T. Radja	Sep. 2014	4 ♂, 3 ♀	FBIZO 1130
<i>Typhloiulus nevoi</i>	Petrliška Pećina Cave, Petrišaš Village, Dimitrovgrad, E Serbia 43°4'28.22"N, 22°47'46.85"E; 697m, leg. D. Antić	June 2014	3 ♂, 3 ♀	FBIZO 1140
<i>Typhloiulus orpheus</i>	Trigrad Gorge, near Dyavolskoto garlo Cave (Smolyan District, Bulgaria) 41°36'54.51"N, 24°22'48.94"E;	May 27, 2014	1 ♂, 2 ♀	NMNHS (Vagalinski et al., 2015)

		1250–1300m, leg. B. Vagalinski			
	<i>Typhloiulus serborum</i>	Samar Cave System, Kopajkošara Village, near Niš, SE Serbia 43°26'45.40"N, 21°58'34.50"E; 500m, leg. D. Antić	July 2014	2 ♂, 3 ♀	FBIZO 1150
	<i>Typhloiulus sp. n.</i>	between Belitsa and Borovo (Plovdiv District, Laki Municipality, Bulgaria) 41°50'20.94"N, 24°51'35.74"E; 695m, leg. B. Vagalinski & P. Mitov	May 1, 2015	2 ♂, 8 ♀	description in progress (Vagalinski, personal communication)
	<i>Xestoiulus imbecillus</i>	Mairist (Carinthia, Austria) 46°44'57.35"N, 14°23'57.88"E; 493m, leg. M. Bodner	Oct. 2011	1 ♂, 7 ♀	NHMW 8685 (1♂) NHMW 8686 (1♀)
Uncigerini	<i>Unciger foetidus</i>	Drugovačka Šuma, Smederevo, E Serbia 44°39'36"N, 20°55'48"E; 123m, leg. T. Sekulić	May 2013	5 ♂, 5 ♀	FBIZO 1190
	<i>Unciger transsilvanicus</i>	Vitosha Mt., Zheleznitsa Village (Sofia District, Bulgaria) 42°32'08.09"N, 23°21'44.85"E; 1135m, leg. B. Vagalinski	Oct. 7, 2011	1 ♂, 5 ♀	NHMW 8687 (1♂) NHMW 8688 (1♀)
Pachyiulini	<i>Dolichoiulus hercules</i>	Monte de Gibralfaro (Andalusia, Spain) 36°43'21"N, 4°24'39"W; 93m, leg. S. Enzinger & M. Bodner	Nov. 8, 2012 March 16, 2013 March 29, 2013 Dez., 2013	4 ♂, 12 ♀ 9 ♂, 11 ♀ 4 ♂, 6 ♀ 21 ♂, 25 ♀	NHMW 8689 (1♂) NHMW 8690 (1♀)
	<i>Pachyiulus cattarensis</i>	Vitosha Mt., Zheleznitsa Village (Sofia District, Bulgaria) 42°32'03.34"N, 23°22'35.46"E;	Apr. 19, 2012	3 ♂, 4 ♀	no voucher deposited

		1053m, leg. B. Vagalinski			
	<i>Pachyiulus hungaricus</i>	Plana Mt., SSE of Pasarel Village (Sofia District, Bulgaria) 42°31'06.01"N, 23°30'27.20"E; 978m, leg. B. Vagalinski	May 5, 2012 Oct. 4, 2014	6 undet. 2 ♀, 1 ♂	NHMW 8691 (1♂)
Ommatoiulini	<i>Ommatoiulus bipartitus</i>	A Capela Caaveiro (A Coruña, Spain) 43°24'30.62"N, 8°3'24.96''W; 72m, leg. M. Bodner	Aug. 30, 2014	2 ♂, 1 ♀	ZMUC00046995 (1 ♂)
		nr. Oia (Pontevedra, Spain) 41°59'12.9"N, 8°52'58.8"W; 61m, leg. M. Bodner	Sept. 1, 2014	2 ♂, 1 ♀	ZMUC00046997 (1 ♂)
	<i>Ommatoiulus sabulosus</i>	Peggau (Styria, Austria) 47°12'24"N, 15°21'02"E; 620m, leg. M. Bodner	July 24, 2012	1 ♂, 6 ♀	NHMW 8692 (1♂) NHMW 8693 (1♀)

*Voucher deposition & museum/institution acronyms: NHMW (Natural History Museum of Vienna), ZMUC (Natural History Museum of Denmark), HNHM (Hungarian Natural History Museum, Budapest), NMNHS (National Museum of Natural History Sofia), FBIZO (Faculty of Biology, Institute of Zoology, University of Belgrade).