

## Supplementary Materials

**Table S1.** List of Oribatida taxons and their preferences, found in the nests of the White Stork and the nests of the Black Stork.

Taxon		Habitat Preferences [95,96,99]	Dietary preferences [95,96]	Prevalence [95,97,101,102]	Reproduction [98-100]
White Stork	Black Stork				
<i>Scheloribates laevigatus</i> (C. L. Koch, 1835)		Eur <sup>1</sup> , Mea	Pan <sup>2</sup> , Cop	Hol <sup>3</sup>	S <sup>4</sup>
<i>Ramusella fasciata</i> (Paoli, 1908)		nd. <sup>5</sup>	nd.	Hol	nd.
<i>Punctoribates punctum</i> (C.L. Koch, 1839)		Eur, Wood, Arb, Mos, Gras, Mes	Pan	Cosm	S
<i>Tectocephus velatus</i> (Michael, 1880)		Eur	Mic	Cosm	P
<i>Oribatula exilis</i> (Nicolet, 1855)		Eur, Arb, Mos, Xer	Mic	Hol	S
<i>Liebstadia similis</i> (Michael 1888)		Wood, Gras, Hyg	Pan	Hol	nd.
<i>Oppia denticulata</i> (Canestrini, 1882)		Eur	nd.	Pal	nd.
<i>Oribatula pannonica</i> (Willmann, 1949)		Xer, Mos, Hal	Mic	Euro	S
<i>Trichoribates trimaculatus</i> (C. L. Koch, 1835)		Arb, Mos, Gras, Xer	Pan	Hol	nd.
<i>Eupelops occultus</i> (C. L. Koch, 1835)		Gras, Tyr	Pan	Pal	S
<i>Galumna obvia</i> (Berlese, 1915)		Gras	Pan	Hol	S
<i>Achipteria nitens</i> (Nicolet, 1855)		Wood, Mpl	Pan	Pal	S
<i>Achipteria coleoptrata</i> (Linné, 1758)		Eur, Wood	Mac, Pan	Hol	S
<i>Platynothrus peltifer</i> (C.L. Koch, 1839)		Eur, Wood, Arb, Pem, Hyg, Gras,	Pan	Cosm	P
<i>Scheloribates pallidulus</i> (C.L. Koch, 1841)		Eur, Wood, Gras, Pem, Hyg	Pan	Cosm	S
<i>Tectoribates ornatus</i> (Schuster, 1958)		Xer, Gras, Hal	Mic	Pal	nd.
<i>Trichoribates incisellus</i> (Kramer, 1897)		Gras, Hal	Pan	Pal	nd.
<i>Pergalumna nervosa</i> (Berlese, 1914)		Eur, Wood, Hyg, Gras, Pem, Xer	Pan	Cosm	S
<i>Chamobates cuspidatus</i> (Michael, 1884)		Wood, Tyr	Pan	Hol	nd.
<i>Neoribates aurantiacus</i> (Oudemans, 1914)		Wood, Gras	nd.	Hol	nd.
<i>Diapterobates humeralis</i> (Hermann, 1804)		Wood, Arb, Gras, Xer	Mic	Hol	S
<i>Eupelops subuliger</i> (Berlese, 1916)		Wood, Hig	nd.	Euro	S
<i>Oppiella nova</i> (Oudemans, 1902)		Eur	Mic	Cosm	P

<i>Eniochtchoni</i> <i>minutissimus</i> (Berlese, 1903)		Eur, Wood	Mic	Cosm	P
<i>Ceratozetes gracillis</i> (Michael, 1884)		Wood, Moo	Pan	Hol	nd.
<i>Carabodes labyrinthicus</i> (Michael, 1879)		Eur, Wood, Arb, Mos	Mac	Hol	S
<i>Liacarus coracinus</i> (C.L. Koch, 1841)		Wood, Gras	Pan	Pal	nd.
<i>Spatiodamaeus verticilipes</i> (Nicolet, 1855)		Wood, Mos	nd.	Hol	nd.
<i>Eupelops plicatus</i> (C.L. Koch, 1836)		Wood, Arb	nd.	Hol	S
<i>Nothrus silvestris</i> (Nicolet, 1855)		Eur, Wood	Mac, Pan	Cosm	P
<i>Minutozetes pseudofusiger</i> (Schweizer, 1922)		Arb, Mos, Xer	nd.	Pal	nd.
<i>Phthiracarus</i> sp. (Perty, 1841)		-	-	-	-
<i>Punctoribates hexagonus</i> (Berlese, 1908)		Gras, Hal, Tyr	nd.	Hol	nd.
<i>Ramusella 2ectina</i> (Willmann, 1928)		Pem, Wood	nd.	Euro	nd.
<i>Peloptulus phaenotus</i> (C. L. Koch, 1844)		Gras, Hal, Ree	nd.	Pal	nd.
<i>Nanhermannia nana</i> (Nicolet, 1855)		Wood, Gras, Peb, Hyg	Mic, Pan	Cosm	P
<i>Adoristes ovatus</i> (C.L. Koch, 1839)		Eur, Wood, Pem	Pan	Hol	S
	<i>Ramusella clavipectinata</i> (Michael, 1885)	Hyg, Gras	Pan	Hol	nd.
	<i>Oppiella subpectinata</i> (Oudemans, 1900)	Eur, Wood,	Mic	Hol	S
	<i>Acrogalumna longipluma</i> (Berlese, 1904)	Eur, Wood,	Pan	Cosm	nd.
	<i>Oribella 2ectinate</i> (Michael, 1885)	Cav, Mne	Pan	Euro	nd.
	<i>Suctobelbella subtrigona</i> (Oudemans, 1916)	Eur, Wood	Pan	Cosm	P
	<i>Suctobelbella sarekensis</i> (Forsslund, 1941)	Eur, Wood, Gras, Rud, Hyg	Pan	Hol	P
	<i>Autogneta longilamellata</i> (Michael, 1885)	Wood	Mic	Hol	S

	<i>Phthiracarus italicus</i> (Oudemans, 1906)	Hyg, Wood, Gras	Mac	Euro	S
	<i>Scheloribates initialis</i> (Berlese, 1908)	Eur	Mic, Pan	Cosm	S
	<i>Hypochthonius rufulus</i> (C.L. Koch, 1835)	Wood, Gras, Hyg, Pem	Mic, Pan, Nec	Hol	P
	<i>Liebstadia humerata</i> (Sellnick, 1928)	Arb, Mos, Xer	Pan	Hol	S
	<i>Steganacarus carinatus</i> (C.L. Koch, 1841)	Wood, Xer, Ant	Mac	Pal	S
	<i>Subiasella quadrimaculata</i> (Evans, 1952)	Hum	nd.	Pal	nd.
	<i>Phauloppia rauschenensis</i> (Sellnick, 1908)	Arb	nd.	Euro	nd.
	<i>Microppia minus</i> (Paoli, 1908)	Eur, Arb, Xer	Pan	Cosm	P
	<i>Carabodes willmani</i> (Bernini, 1975)	Wood, Mos, Lic, Moor	Mac	Hol	S
	<i>Licneremaeus licnophorus</i> (Michael, 1882)	Wood, Arb, Mos, Xer	Mic	Pal	S
	<i>Licnodamaeus pulcherrimus</i> (Paoli, 1908)	Xer	Mac	Pal	nd.
	<i>Eueremaeus oblongus</i> (C.L. Koch, 1835)	Wood, Arb, Mos, Xer	Mic	Hol	S
	<i>Oribatella reticulata</i> (Berlese, 1916)	Wood, Arb, Mos	nd.	Hol	S
	<i>Carabodes ornatus</i> (Štorkán, 1925)	Wood, Hyg	Mac, Pan	Pal	S
	<i>Furcoribula furcillata</i> (Nordenskiöld, 1901)	Wood, Ant	Pan	Hol	S
	<i>Metabelba pulverosa</i> (Strenzke, 1953)	Eur, Wood, Mos, Pem, Mes	Mic	Hol	S
	<i>Zetorchestes falzonii</i> (Coggi, 1898)	Wood, Lic, Mos,	nd.	Euro	nd.
	<i>Fuscozetes fuscipes</i> (C. L. Koch, 1844)	Hyg, Gras, Wood, Tyr	Pan, Nec	Hol	nd.

Weigmann (2006) [95], Schatz (1983) [96], Bernini et al. (1987) [97], Domes-Wehner (2009) [98], Fischer et al. (2010, 2014) [99,100], Weigmann and Schatz (2015) [101], Schatz and Fischer (2016)

[102]; <sup>1</sup>Ant—ant nests; Arb—arboreal; Cav—caves; Eur—eurytopic; Gras—grassland; Hal—halophilic; Hig—highland; Hum—humus-rich soils and compost; Hyg—hygrophilous; Lic—lichens; Mea—meadow; Mes—mesohygrophilous; Mne—mouse nests; Moor—moorland; Mos—mosses; Mpl—mesophilic plant litter; Peb—peat-bog; Pem—peat mosses; Ree—reeds; Rud—ruderal; Tyr—tyrphobiont; Wood—woodland; Xer—xerophilic; <sup>2</sup>Cop—coprophagous; Mac—macrophytophagous; Mic—microphytophagous; Nec—necrophagous; Pan—panphytophagous; <sup>3</sup>Cosm—cosmopolitan; Euro—European; Hol—Holarctic; Pal—Palearctic; <sup>4</sup>P—parthenogenetic, S—sexual; <sup>5</sup>nd.—no data.