

A case of behavioral diversification in male floral function – the evolution of thigmonastic pollen presentation

Supplementary Table 2
Pollinator data

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Taxon	Voucher plant	Literature	Pollination syndrome	Visitor taxon	Visitor family	Voucher visitor
<i>Aosa rupestris</i> Gardn.		1, 10		Gen. Spec.	Colletidae	
		15, 25		<i>Bicolletes nordestina</i> Urban, 2006	Paracolletini – Colletinae – Colletidae	
<i>Blumenbachia insignis</i> Schrad.		1, 5		Gen. Spec.	Colletidae	
		6		Gen. Spec.	Halictidae	
		1		Gen. Spec.	Megachilidae	
		15, 22		<i>Bicolletes pampeana</i>	Paracolletini – Colletinae – Colletidae	
		15, 22		<i>Colletes furfurascens</i>	Colletini - Colletinae– Colletidae	
		15, 22		<i>Colletes cyaneus</i>	Colletini – Colletinae – Colletidae	
		15, 22		<i>Dialictus opacus</i>	Halictini – Halictinae -Halictidae	
		15, 22		<i>Mielkeanthidium rubripes</i>	Anthidini – Anthidinae – Megachilidae?	
<i>Blumenbachia latifolia</i> St.Hil.		15, 16		Gen. Spec.	Colletidae	
		15		<i>Leioproctus fulvoniger</i>	Colletidae - ? - ?	
<i>Caiophora arechavaletae</i> (Urb.) Urb. & Gilg		15		<i>Bicolletes pampeana</i>	Paracolletini – Colletinae – Colletidae	
		15		<i>Bicolletes franki</i>	Paracolletini - Colletinae– Colletidae	
		15		<i>Chilicola spec.</i>	Paracolletini – Colletinae - Colletidae	
<i>Caiophora canarinoides</i> (Lenné & K.Koch) Urb. & Gilg		1		Hummingbird		
<i>Caiophora carduifolia</i> C.Presl.		1		Hummingbird		
<i>Caiophora cernua</i> (Griseb) Urb. & Gilg ex Kurtz		26		Gen. Spec.	Colletidae	
		4		Gen. Spec.	Apidae	
<i>Caiophora chuquitensis</i> (Meyen) Urb. & Gilg		26		Gen. Spec.	"Bee"	
		26		Hummingbird		
		4, 7, 26		Hummingbird		
		7		Gen. Spec.	Apidae	
		7, 15, 26		<i>Bombus spec.</i>	Apidae	
		7, 15		<i>Chilicola spec.</i>	Colletidae	
		7, 15		Gen. Spec.	Colletidae	
	M. & K. Weigend 2000/203				Hummingbird	Aves
<i>Caiophora cirsiifolia</i> K.Presl	Henning & Schulz 22			<i>Lonchoryncha spec.</i>	Paracolletini - Colletidae	Henning & Schulz 33
				<i>Centris spec.</i>	Centridinii	Henning & Schulz 29
				<i>Centris spec.</i>	Centridinii	Henning & Schulz 31

			Gen. Spec.	?	Henning & Schulz 32
			Gen. Spec.	Megachilidae	Henning & Schulz 30
	Weigend et al. 7754		<i>Centris spec.</i>	Centridini - Apinae – Apidae	
			<i>Centris spec.</i>	Centridini - Apinae – Apidae	
		1	Bombus	Apidae	
		1, 20, 23	<i>Centris spec.</i>	Apidae	
	Weigend et al. 2003		<i>Centris spec.</i>	Centridini - Apinae – Apidae	
<i>Caiophora clavata</i> Urb. & Gilg		4	Fam. Gen. Spec.	"Bee"	
		7	<i>Bombus spec.</i>	Apidae	
		7, 15	<i>Chilicola</i>	Colletidae	
		7, 15, 26	Gen. Spec.	Colletidae	
		15	<i>Chilicola spec.</i>	Paracolletini - Colletidae – Colletina	
		15	<i>Colletes mastochila</i>	Colletini - Colletinae– Colletidae	
<i>Caiophora coronata</i> (Arn.) Hook & Arn.		1, 4, 26	Small rodent	Mammalia	
		1, 2, 4, 7	Hummingbird		
		1, 4	Passerines		
		1	Gen. Spec.	"Bee"	
		2, 12	<i>Bombus spec.</i>	Apidae	
		2, 4	Gen. Spec.	Megachilidae	
<i>Caiophora hibiscifolia</i> (Griseb.) Urb. & Gilg		26	Hummingbird		
		7	<i>Bombus spec.</i>	Apidae	
		7	Eucerini	Apidae	
		8	Hummingbird	Aves	
<i>Caiophora lateritia</i> (Hook.) Benth.		1, 4, 26	Hummingbird		
		14	Gen. Spec.	"Bee"	
		26	Gen. Spec.	Apidae	
		26	<i>Bombus spec.</i>	Apidae	
		26	<i>Xylocopa spec.</i>	Apidae	
		26	Gen. Spec.	Halictidae	
<i>Loasa acerifolia</i> Domb.		26	Gen. Spec.	"Bee"	
<i>Loasa acerifolia</i> Domb.	Weigend et al. 5848		<i>Bombus cf. dahlbomii</i>	Bombini – Apinae? – Apidae	
	Weigend et al. 6055		<i>Apis mellifera</i>	Apini – Apinae - Apidae	
			<i>Bombus cf. dahlbomii</i>	Bombini – Apinae? – Apidae	
<i>Loasa insons</i> Poepp.	Weigend et al. 5913		<i>Apis mellifera</i>	Apini – Apinae - Apidae	

				Gen. Spec.	Colletidae (1)		
				Gen. Spec.	Colletidae (2)		
				Gen. Spec.	Colletidae (3)		
	Weigend et al. 5913b			<i>Xylocopa spec.</i>	Xylocopini – Xylocopinae - Apidae		
				<i>Apis mellifera</i>	Apini – Apinae - Apidae		
				Gen. Spec.	Colletidae (2)		
				Gen. Spec.	Colletidae (1)		
				<i>Tygathe spec.</i>	Apidae (ehem.- Anthophoridae)		
<i>Loasa nitida</i> Desr.	Weigend 2000/660			Gen. Spec.	Megachilidae		
	Weigend et al. 2000/660			Gen. Spec.	Halictidae		
<i>Loasa tricolor</i> Ker Gawl.		3		Gen. Spec.	Apidae		
		3, 11, 12, 18, 20		Eucerini	Apidae		
		19		<i>Chilicola spec.</i>	Colletidae		
		3, 9, 10, 11, 12, 13, 18, 19, 24		Gen. Spec.	Colletidae		
		3, 11, 12		Gen. Spec.	Megachilidae		
		3, 11		Gen. Spec.	Halictidae		
		18			Diptera		
<i>Nasa ranunculifolia</i> (Kunth) Weigend	Weigend et al. 97/367			<i>Bombus cf. robustus</i>	Bombini – Apinae? – Apidae	97/Z1	
<i>Nasa ranunculifolia</i> (<i>cymbopetala</i>)		21		Hummingbird			
<i>Nasa dyeri</i> (Urb. & Gilg) Weigend subsp. <i>australis</i> Dostert & Weigend	Dostert 98/80			<i>Apis mellifera</i>	Apinini – Apinae - Apidae	N. Dostert 1998/G.	
				<i>Trigona guianensis</i>	? - Apidae	N. Dostert 1998/G.	
				<i>Partamona spec.</i>	Meliponini - ? - Apidae	N. Dostert 1998/G.	
<i>Nasa macrothyrsa</i> (Urb. & Gilg) Weigend	Henning & Schulz 32			<i>Neoxylocopa</i>	Xylocopini - Xylocopinae - Apidae	Henning & Schulz 39	
				<i>Apis mellifera</i>	- Apidae	Henning & Schulz 40	
				<i>Neoxylocopa spec.</i>	Xylocopini - Xylocopinae - Apidae	Henning & Schulz 41	
				<i>Apis mellifera</i>	- Apidae	Henning & Schulz 42	
	Weigend et al. 97/428				<i>Xylocopa viridigaster</i> Lepelletier 1843	Xylocopini - Xylocopinae - Apidae	
					<i>Xylocopa lachnea</i> (<i>Neoxylocopa</i>) Moure 1951	Xylocopini - Xylocopinae - Apidae	
	Henning & Schneider 118				Gen. Spec.	Colletidae	
				<i>Xylocopa lachnea</i> (<i>Neoxylocopa</i>) Moure 1951	Xylocopini - Xylocopinae - Apidae		

<i>Nasa moroensis</i> Weigend	Weigend et al. 7694			Gen. Spec.	Colletidae		
<i>Nasa olmosiana</i> (Gilg ex J.F. Macbr.) Weigend	Henning & Schulz 41			Gen. Spec.	?	Henning & Schulz 55	
				<i>Apis mellifera</i>	Apidae	Henning & Schulz 56	
				<i>Apis mellifera</i>	Apidae	Henning & Schulz 57	
				Gen. Spec.	?	Henning & Schulz 58	
				Gen. Spec.	?	Henning & Schulz 59	
<i>Nasa triphylla</i> (Juss.) Weigend		1		Gen. Spec.	Colletidae		
		21		Gen. Spec.	Megachilidae		
<i>Nasa urens</i> (Jacq.) Weigend		1, 17		Gen. Spec.	Colletidae		
		21		Gen. Spec.	Megachilidae		
	Observation M. Weigend, no voucher				<i>Megachile spec.</i>	Megachilini – Megachilinae - Megachilidae	
					Gen. Spec.	Colletidae	
	Weigend & Skrabal 5889				Gen. Spec.	Colletidae (1)	
					Gen. Spec.	Colletidae (2)	
					<i>Megachile spec.</i>	Megachilini – Megachilinae - Megachilidae	
<i>Nasa vargasii</i> (Killip) Weigend	Weigend & Weigend 2000/396			Gen. Spec.	Megachilini – Megachilinae - Megachilidae	2000/396./Z1b. 2000/396./Z1c	
				Caupolicana sp.	Caupolicanini – Diphaglossinae - Colletidae	2000/396./Z1b, 2000/396./Z1c	
	Weigend & Weigend 2000/s.n.			Caupolicana sp.	Caupolicanini – Diphaglossinae - Colletidae	2000/s.n./Z1	
<i>Presliophytum heucheraefolium</i> (Killip) Weigend		1		<i>Xylocopa spec.</i>	Apidae		
	Weigend et al. 5536			<i>Xylocopa spec.</i>	Xylocopini – Xylocopinae - Apidae		
					<i>Megachile spec.</i>	Megachilini – Megachilinae - Megachilidae	
<i>Presliophytum incanum</i> (Urb. & Gilg) Weigend	Observation M. Weigend, no voucher			<i>Xylocopa spec.</i>	Xylocopini – Xylocopinae - Apidae		
			1		Gen. Spec.	Colletidae	
		1				Lepidoptera	
	Weigend et al. 97/198				<i>Megachile spec.</i>	Megachilini – Megachilinae - Megachilidae	97/Z3
<i>Scyphanthus elegans</i> D.Don.		12		<i>Centris spec.</i>	Apidae		
		2		Eucerini	Apidae		
		2, 12		Gen. Spec.	Megachilidae		
<i>Xylopodia klaprothioides</i>	Henning & Schulz			Gen. Spec.	Colletidae - Colletini	Henning & Schulz 43	

Weigend	34			Gen. Spec.	Colletidae - Colletini	Henning & Schulz 44
				Gen. Spec.	Colletidae - Colletini	Henning & Schulz 45
				Gen. Spec.	Gen. Spec. Diptera	Henning & Schulz 46
				<i>Neoxylocopa spec.</i>	Xylocopini - Xylocopinae - Apidae	Henning & Schulz 47
		1		Gen. Spec.	Colletidae	

Grey filling: data obtained from the literature, without filling: own observations in the field. Color code for pollination syndrome:

short-tongued bees
long-tongued bees
hummingbirds
mammals
various (i.a. butterflies)

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