

Supplementary Table 1. Observed floral traits for each plant species, and available literature, to support our ascription of pollination syndrome for each of our 13 plants. Shape dimensions are given as corolla depth x head-on width; nectar rewards are averaged across the daily cycle.

Plant species	Colour	Shape (mm)	Odour	Rewards	Location and Study Period	Literature	Syndrome
<i>Malvaviscus arboreus</i>	Red	Erect tube (corolla 27x15)	None	Plentiful large pollen grains, 6-8 μ l 20-27% nectar	Costa Rica Jan-Apr 2009	Webb 1984; Webb & Bawa 1983	Hummingbird
<i>Helicteres guazumifolia</i>	Red	Horizontal bell (corolla 50x15)	None	Plentiful small pollen grains, 5-25 μ l 15-27% nectar	Costa Rica Jan-Apr 2009	Goldberg 2009	Hummingbird
<i>Geranium pratense</i>	Purple (dark purple nectar guides)	Bowl (corolla 5x40)	Strong, sweet	Moderate amount of large pollen grains, 0.1-0.3 μ l 38-50% nectar	West Quarry July-Aug 2009, 2010	Brian 1957; Berg 1960; Kozuharova 2002; Chapman <i>et al.</i> 2003	Bee
<i>Digitalis purpurea</i>	Pink (white nectar guide)	Bell (corolla 100x30)	Strong, sweet	Moderate amount of large pollen grains, 1-10 μ l 16-45% nectar	Loch Tay June 2010	Berg 1960; Best & Bierzychudek 1982; Grindeland <i>et al.</i> 2005	Bee
<i>Byrsonima crassifolia</i>	Yellow	Bowl with claw-shaped petals (20x10)	Strong, slightly musky	Plentiful small pollen grains, ~1.6 μ l of oil	Costa Rica Apr-May 2009	Frankie <i>et al.</i> 1988; Albuquerque & Rego 1989; Rego & Albuquerque 1989; Sazima & Sazima 1989; Vinson <i>et al.</i> 1997; Sigrist & Sazima 2004; Rego <i>et al.</i> 2006	Oil-bee
<i>Agrimonia eupatoria</i>	Yellow	Open bowl, (corolla 2x10)	Strong, fruity	Moderate amount of large pollen grains, no nectar	West Quarry July-Aug 2009	Memmot 1999; Fründ, Linsenmair & Blüthgen 2010	Hoverfly

<i>Cirsium arvense</i>	Purple/ Lilac	Composite inflorescence, (corollas 15x0.5)	Strong, vanilla-like	Plentiful small pollen grains, nectar volumes too small to measure	West Quarry June-Aug 2009, 2010	Clausen, Holbeck & Reddersen 2001; Plepys <i>et al.</i> 2002; Theiss 2006; Tiley 2010	Long-tongued bee/hoverfly
<i>Centaurea nigra</i>	Deep Purple	Composite inflorescence, (corollas 5x1.5)	Light, sweet	Plentiful small pollen grains, small volumes 30-70% nectar	West Quarry June-Aug 2009, 2010	Lack 1976; Gilbert 1980; Corbet 2000	Medium-tongued bee/hoverfly
<i>Knautia arvensis</i>	Purple/ Lilac	Composite inflorescence, (corollas 6x1.5)	Strong, sweet	Plentiful small pollen grains, (Raine and Chittka (2007) recorded 130-150µg of sugar per 24 hours)	West Quarry June-Aug 2009, 2010	Coomba <i>et al.</i> 1999	Medium-tongued bee/hoverfly
<i>Trifolium pratense</i>	Purple/ Pink	Campanulate inflorescence, (corollas 12x1)	Strong, honey-like	Plentiful small pollen grains, nectar volumes too small to measure	Loch Tay June 2010	Shuel 1951; Bond & Fyfe 1968	Long-tongued bee/hoverfly
<i>Ipomoea trifida</i>	Purple/ Lilac	Flared tubular, (corolla 30x40)	Light, slightly sweet	Moderate amount of large pollen grains, moderate volumes of nectar (no exact measurements)	Costa Rica Jan-Apr 2009	Genus: McDonald 1991; Chemás-Jaramillo & Bullock 2002; Galetto & Bernardello 2004; Wolfe & Sowell 2006	Bee/Generalist
<i>Heracleum sphondylium</i>	White	Umbel inflorescence, (corollas 1x7-10)	Strong, musky	Plentiful small pollen grains, nectar volumes too small to measure	West Quarry March-Aug 2009, 2010	Sheppard 1991; Zych 2007	Generalist
<i>Rubus fruticosus</i>	White	Bowl, (corolla 1x25-30)	Mild, floral	Plentiful small pollen grains, moderate volumes of nectar	West Quarry May-Aug 2009, 2010	Yeboah-Gyan & Woodell, 1987	Generalist

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Supplementary Table 2. Mean SVD values (\pm SE) for visitor groups, and all visitor species, for 13 plant species, with significance indicated as the difference in SVD (corrected for mean pollen on unvisited control flowers, value in parentheses below plant name) from zero. P value bold where $P < 0.05$, (* where significance also meets the criteria of Bonferroni correction). Final column shows mean visit duration (\pm SE).

		Mean SVD	n	P value	Mean visit duration (s)
<i>Malvaviscus</i> (10.6)	Hummingbirds (<i>Amazilia rutila</i>)	104.4 \pm 9.8	21	<0.0005*	6.1 \pm 1.2
	Bees	29.0	35	<0.0005*	92.1 \pm 9.2
	<i>Agapostemon</i> sp.	53.1 \pm 15.3	8	0.008	91.9 \pm 23.8
	<i>Trigona fulviventris</i>	21.9 \pm 5.5	13	0.018	110.8 \pm 17.8
	<i>Tetragonisca angustula</i>	21.9 \pm 4.3	14	0.008	75.0 \pm 8.2
	Butterflies	5.8 \pm 1.7	12	0.180	122.5 \pm 21.0
	<i>Eurema daira</i>	8.4 \pm 2.0	8	0.180	138.8 \pm 29.4
	<i>Phoebis agarithe</i>	0.5	4	NA	90.0 \pm 17.3
	Ants (<i>Camponotus novograndensis</i>)	11.1 \pm 1.5	8	0.066	180.0 \pm 29.9
<i>Helicteres</i> (89.0)	Hummingbirds (<i>Phaethornis guy</i>)	1517.1 \pm 97.5	21	<0.0005*	1.73 \pm 0.4
	Bees	441.8	105	<0.0005*	202.0 \pm 10.0
	<i>Trigona fulviventris</i>	443.4 \pm 29.9	92	<0.0005*	232.5 \pm 10.8
	<i>Agapostemon</i> sp.	400.0 \pm 101.4	6	0.028	80.0 \pm 24.1
	<i>Tetragonisca angustula</i>	162.9 \pm 26.0	7	0.028	68.6 \pm 14.2
<i>Geranium</i> (16.7)	Bees	33.9	56	<0.0005*	23.8 \pm 2.5
	<i>Bombus pratorum</i>	31.2 \pm 6.7	52	<0.0005*	25.2 \pm 2.6
	<i>Bombus lapidarius</i>	1.0 \pm 0.4	4	NA	5.0
	Hoverflies	19.8	25	0.027	48.0 \pm 7.9
	<i>Platycheirus occultus</i>	56.0	2	NA	25.0 \pm 5.0
	<i>Rhingia campestris</i>	19.0 \pm 5.8	19	0.012*	42.6 \pm 5.8
	<i>Meliscaeva auricollis</i>	15.0	1	NA	(20)
	<i>Melanostoma mellinum</i>	6.0	1	NA	(120)
	<i>Episyrphus balteatus</i>	0	1	NA	(20)
	Other flies (unknown muscid)	0	1	NA	(180)

<i>Digitalis</i> (19.4)	Bees	58.2	38	< 0.0005*	16.1 ± 1.6
	<i>Bombus hortorum</i>	73.2 ± 16.7	25	< 0.0005*	11.4 ± 1
	<i>Bombus muscorum</i>	31.0 ± 4.4	12	0.005*	26.3 ± 2.6
	<i>Bombus terrestris</i>	9	1	NA	(10)
<i>Byrsonima</i> (48.5)	Bees	313.9	82	< 0.0005*	65.9 ± 6.0
	<i>Exomalopsis</i> sp.	1686.7 ± 121.7	3	0.109	20.0 ± 5.8
	<i>Centris nitida</i>	381.7 ± 96.8	6	0.043	45.0 ± 5.5
	<i>Trigona fulviventris</i>	254.5 ± 29.9	61	< 0.0005*	64.9 ± 5.3
	<i>Tetragonisca angustula</i>	238.8 ± 41.3	12	< 0.003*	92.5 ± 29.7
<i>Agrimonia</i> (8.5)	Hoverflies	36.2	139	< 0.0005*	24.1 ± 1.4
	<i>Parasyrphus punctulatus</i>	57.5	2	NA	4.5 ± 0.5
	<i>Rhingia campestris</i>	55.2 ± 21.9	15	0.005*	20.0
	<i>Platycheirus scutatus</i>	52.8 ± 8.1	19	< 0.0005*	30.0
	<i>Platycheirus albimanus</i>	47.6 ± 19.2	10	0.008	63.5 ± 7.9
	<i>Leucozona laternaria</i>	43.5 ± 10.5	12	0.008	20.0
	<i>Episyrphus balteatus</i>	27.6 ± 2.9	63	< 0.0005*	19.9 ± 1.6
	<i>Meliscaeva auricollis</i>	23.2 ± 6.7	13	0.012	16.5 ± 1.3
	Unknown hoverfly	10.8 ± 1.6	5	NA	26.0 ± 8.0
Other flies (unknown sp)	31.0	2	NA	(20)	
<i>Cirsium</i> (0)	Bees (<i>Bombus terrestris</i>)	1.8 ± 0.2	22	0.038	19.1 ± 2.4
	Hoverflies	2.9	53	< 0.0005*	8.8 ± 1.7
	<i>Episyrphus balteatus</i>	3.8 ± 0.8	26	< 0.0005*	8.7 ± 3.5
	<i>Platycheirus manicatus</i>	2.1 ± 0.3	16	0.002*	7.5 ± 0.5
	<i>Melanostoma mellinum</i>	2.1 ± 0.8	11	0.001*	10.9 ± 0.3
	Other Flies	1.2	31	< 0.0005*	20.6 ± 1.6
	<i>Empis livida</i>	1.8 ± 0.5	5	< 0.0005*	36
	<i>Calliphora vomitoria</i>	1.2 ± 0.1	15	< 0.0005*	22.7 ± 0.8
	Unknown muscid	1.0 ± 0	11	NA	10.9 ± 1.0
<i>Centaurea</i> (14.0)	Hoverflies	217.9	240	< 0.0005*	11.4 ± 0.7
	<i>Episyrphus balteatus</i>	273.7 ± 41.7	158	< 0.0005*	8.2 ± 0.2

	<i>Eupeodes corollae</i>	115.0 ± 23.6	12	0.002*	15
	<i>Rhingia campestris</i>	114.1 ± 13.9	65	<0.0005*	18.6 ± 2.4
	<i>Platycheirus manicatus</i>	50.4 ± 25.8	5	0.109	6
<i>Knautia</i> (0)	Bees	4.9	66	<0.0005*	6.7 ± 0.7
	<i>Bombus pratorum</i>	6.0 ± 0.9	21	<0.0005*	4.3 ± 0.8
	<i>Bombus (Psithyrus) bohemicus</i>	5.9 ± 1.3	19	0.001*	1.6
	<i>Bombus lucorum</i>	4.8 ± 0.7	12	0.002*	10.0
	<i>Bombus terrestris</i>	2.1 ± 1.0	14	0.018	14.3 ± 0.5
	Hoverflies	5.8	303	<0.0005*	3.2 ± 0.2
	<i>Rhingia campestris</i>	7.4 ± 1.4	54	<0.0005*	2.2 ± 0.1
	<i>Episyrphus balteatus</i>	6.4 ± 0.6	203	<0.0005*	3.6 ± 0.3
	<i>Eupeodes corollae</i>	2.3 ± 1.3	4	NA	10.0
	<i>Syrphus ribesii</i>	1.0 ± 0.2	42	0.018	1.8 ± 0.1
	Other dipterans (<i>Empis</i> sp.)	6.1 ± 0.6	147	<0.0005*	7.9 ± 0.5
<i>Trifolium</i> (0.6)	Bees	12.2	371	<0.0005*	3.2 ± 0.1
	<i>Bombus lucorum</i>	25.1 ± 2.2	31	<0.0005*	1.3 ± 0.1
	<i>Bombus terrestris</i>	13.3 ± 1.5	34	<0.0005*	1.5 ± 0.1
	<i>Bombus hortorum</i>	10.8 ± 0.6	275	<0.0005*	3.7 ± 0.1
	<i>Bombus muscorum</i>	10.0 ± 1.8	31	<0.0005*	2.3 ± 0.1
	Hoverflies (<i>Criorhina</i> sp.)	28.8 ± 2.4	18	<0.0005*	5.0
<i>Ipomoea</i> (52.8)	Bees	108.7	119	<0.0005*	76.0 ± 6.0
	<i>Andrena</i> sp.	155.7 ± 15.9	19	<0.0005*	44.3 ± 9.8
	<i>Agapostemon</i> sp.	118.5 ± 10.1	55	<0.0005*	103.6 ± 9.8
	<i>Partamona musarum</i>	113.5 ± 9.4	11	0.003*	50.9 ± 7.6
	<i>Lasioglossum</i> sp.	106.5	2	NA	90.0 ± 30.3
	<i>Ceratina</i> sp.	93.8 ± 17.4	4	0.068	165.0 ± 15.0
	<i>Tetragonisca angustula</i>	70.4 ± 12.6	16	0.008	32.5 ± 3.4
	<i>Trigona fulviventris</i>	35.8 ± 9.2	12	0.109	78.7 ± 18.2
	Hoverflies (unknown sp.)	23	1	NA	(2)
	Butterflies	68.0	2	NA	32.5 ± 27.5
	<i>Eurema daira</i>	0	1	NA	(5)
	Unknown sp.	136	1	NA	(60)

	Ants	65.0	37	<0.0005*	142.7 ± 13.7
	<i>Pseudomyrmex gracilis</i>	69.0 ± 10.7	28	0.001*	148.9 ± 15.5
	<i>Camponotus novograndensis</i>	52.6 ± 12.1	9	0.068	123.3 ± 29.8
	Wasps (eumenid)	14	1	NA	(60) Beetles
	93.5 40	<0.0005*	578.3 ± 86.9		
	<i>Notoxus</i> sp.	87.8 ± 9.8	36	<0.0005*	556.7 ± 92.1
	Unknown sp.	144.5 ± 44.4	4	0.068	682.5 ± 291.7
<i>Heracleum</i> (16.8)	Hoverflies	43.7	239	<0.0005*	6.8 ± 0.3
	<i>Epistrophe grossulariae</i>	61.8 ± 12.7	22	<0.0005*	7.1 ± 0.3
	<i>Episyrphus balteatus</i>	55.8 ± 5.5	100	0.005	7.8 ± 0.4
	<i>Eupeodes latifasciatus</i>	41.2 ± 12.4	5	0.068	6.0
	<i>Syrphus ribesii</i>	32.1 ± 3.0	52	<0.0005*	2.7 ± 0.1
	Other Syrphini sp.	28.0 ± 1.5	42	<0.0005*	10.2 ± 0.8
	<i>Platycheirus albimanus</i>	25.8 ± 12.9	6	0.109	20.0
	<i>Eupeodes corollae</i>	22.5 ± 4.0	12	0.007	10.0 ± 1.5
	Other dipterans	80.5	152	<0.0005*	7.2 ± 0.5
	<i>Lucilia sericata</i>	116.1 ± 12.8	33	<0.0005*	4.7 ± 0.1
	Platypezidae sp.	97.6 ± 6.4	37	<0.0005*	3.5 ± 0.2
	<i>Phaonia subventa</i>	67.4 ± 8.1	76	<0.0005*	9.1 ± 0.7
	Anthomyiidae sp.	62.8 ± 19.8	6	0.068	1.7
	Beetles (chrysomelid)	27	1	NA	(30)
<i>Rubus</i> (52.7)	Bees	256.2	42	<0.0005*	44.3 ± 8.2
	<i>Bombus lucorum</i>	343.3 ± 40.2	6	0.026	30.0 ± 3.4
	<i>Bombus terrestris</i>	295.5 ± 53.2	16	<0.0005*	55.3 ± 10.3
	<i>Bombus pratorum</i>	223.0 ± 82.5	7	0.068	77.1 ± 39.8
	<i>Bombus pascuorum</i>	142.0 ± 21.2	5	0.043	12.2 ± 5.4
	<i>Apis mellifera</i>	270.0 ± 49.8	4	0.068	12.5 ± 3.2
	<i>Andrena</i> sp.	154.9 ± 38.9	4	0.109	35.8 ± 14.4
	Hoverflies	136.6	35	0.001*	99.9 ± 13.6
	<i>Platycheirus manicatus</i>	338	1	NA	(7)
	<i>Rhingia campestris</i>	172.6 ± 46.0	19	0.005	111.3 ± 14.3
	<i>Eristalis horticola</i>	87.0 ± 40.6	5	0.317	14.8 ± 4.8
	<i>Episyrphus balteatus</i>	80.0 ± 11.4	7	0.068	112.9 ± 26.0

<i>Meliscaeva auricollis</i>	80	1	NA	(120)
<i>Platycheirus albimanus</i>	45	1	NA	(30)
<i>Criorhina</i> sp.	9	1	NA	(360)
Muscoid dipterans	54.6	13	0.180	67.8 ± 35.6
<i>Calliphora vomitoria</i>	82.5 ± 50.9	4	0.317	67.5 ± 18.9
Small muscid	52.3 ± 16.6	3	0.317	23.7 ± 18.2
Large muscid	42.0 ± 8.1	3	1.0	18.0 ± 7.6
Medium muscid	36.2 ± 15.9	3	1.0	162.0 ± 158.9
Wasps (<i>Vespula vulgaris</i>)	80.9 ± 8.2	6	0.022	21.5 ± 5.4

Supplementary Table 3: Summary of results of General Linear Models for each of the 13 plant species, considering the relationship between visitor species, duration of visit and feeding type and the single-visit stigmatic pollen deposition (SVD). Significant results are highlighted in bold. (DDF = Denominator degrees of freedom, Partial eta² = estimate of effect size).

Plant Species		DDF	F	P value	Partial eta²
<i>Malvaviscus arboreus</i>	Visitor Species	69	10.840	P < 0.001	0.5040
	Duration of Visit	75	0.022	P = 0.883	<0.0005
	Feeding Type	73	0.474	P = 0.625	0.0150
<i>Helicteres guazumifolia</i>	Visitor Species	133	3.886	P < 0.023	0.0610
	Duration of Visit	136	2.517	P = 0.115	0.0210
	Feeding Type	134	0.071	P = 0.790	0.0010
<i>Geranium pratense</i>	Visitor Species	72	1.190	P = 0.310	0.0330
	Duration of Visit	74	0.148	P = 0.702	0.0020
	Feeding Type	72	1.191	P = 0.310	0.0330
<i>Digitalis purpurea</i>	Visitor Species	35	1.399	P = 0.245	0.0400
	Duration of Visit	36	0.004	P = 0.950	<0.0005
<i>Byrsonima crassifolia</i>	Visitor Species	78	34.005	P < 0.001	0.4720
	Duration of Visit	81	1.194	P = 0.278	0.0150
	Feeding Type	79	2.361	P = 0.129	0.0300

<i>Agrimonia eupatoria</i>	Visitor Species	130	2.963	P = 0.010	0.1210
	Duration of Visit	136	3.501	P = 0.064	0.0260
	Feeding Type	136	NA	NA	<0.0005
<i>Cirsium arvense</i>	Visitor Species	99	0.964	P = 0.454	0.0560
	Duration of Visit	105	5.558	P = 0.020	0.0540
	Feeding Type	104	15.817	P < 0.001	0.1400
<i>Centaurea nigra</i>	Visitor Species	236	1.099	P = 0.350	0.0140
	Duration of Visit	239	0.448	P = 0.504	0.0020
	Feeding Type	238	0.117	P = 0.732	0.0010
<i>Knautia arvensis</i>	Visitor Species	507	3.677	P < 0.001	0.0550
	Duration of Visit	515	4.046	P = 0.045	0.0080
	Feeding Type	513	17.690	P < 0.001	0.0660
<i>Trifolium pratense</i>	Visitor Species	384	26.721	P < 0.001	0.2180
	Duration of Visit	388	1.012	P = 0.315	0.0400
<i>Ipomoea trifida</i>	Visitor Species	184	4.447	P < 0.001	0.1810
	Duration of Visit	193	0.003	P = 0.956	<0.0005
	Feeding Type	192	2.046	P = 0.154	0.0110
<i>Heracleum sphondylium</i>	Visitor Species	380	5.274	P < 0.001	0.1120
	Duration of Visit	390	1.345	P = 0.247	0.0040
	Feeding Type	389	NA	NA	<0.0005

<i>Rubus fruticosus</i>	Visitor Species	83	2.387	P < 0.001	0.3030
	Duration of Visit	91	0.444	P = 0.508	0.0100
	Feeding Type	89	2.386	P = 0.104	0.0980