Supplementary Material Appendix 1. Voucher specimen information of *Euglossa.* aff. *viridissima* samples.

Voucher No.	Population locality	Country	Collection date	Collector
SR2200	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2201	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2202	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2203	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2204	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2205	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2206	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2208	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2209	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2210	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2211	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2212	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2213	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2214	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2215	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2217	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2218	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2219	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2220	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2221	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2222	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2223	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2224	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2225	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2226	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2227	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2228	Gumbo-Limbo Nature Center, Boca Raton, FL	USA	12-Aug-09	S. Ramírez
SR2229	Fern Forest Nature Center, Coconut Creek, FL	USA	13-Aug-09	S. Ramírez
SR2230	Fern Forest Nature Center, Coconut Creek, FL	USA	13-Aug-09	S. Ramírez
SR2231	Fern Forest Nature Center, Coconut Creek, FL	USA	13-Aug-09	S. Ramírez
SR2233	Fern Forest Nature Center, Coconut Creek, FL	USA	13-Aug-09	S. Ramírez
SR2234	Fern Forest Nature Center, Coconut Creek, FL	USA	13-Aug-09	S. Ramírez
SR2235	Fern Forest Nature Center, Coconut Creek, FL	USA	13-Aug-09	S. Ramírez
SR2236	Fern Forest Nature Center, Coconut Creek, FL	USA	13-Aug-09	S. Ramírez
SR2237	Fern Forest Nature Center, Coconut Creek, FL	USA	13-Aug-09	S. Ramírez
SR2238	Fern Forest Nature Center, Coconut Creek, FL	USA	13-Aug-09	S. Ramírez
SR2239	Fern Forest Nature Center, Coconut Creek, FL	USA	13-Aug-09	S. Ramírez
SR2240	Fern Forest Nature Center, Coconut Creek, FL	USA	13-Aug-09	S. Ramírez
SR2242	Fern Forest Nature Center, Coconut Creek, FL	USA	13-Aug-09	S. Ramírez
SR2244	Fern Forest Nature Center, Coconut Creek, FL	USA	13-Aug-09	S. Ramírez
SR2245	Fern Forest Nature Center, Coconut Creek, FL	USA	13-Aug-09	S. Ramírez
SR2246	Fern Forest Nature Center, Coconut Creek, FL	USA	13-Aug-09	S. Ramírez
SR2248	Fern Forest Nature Center, Coconut Creek, FL	USA	13-Aug-09	S. Ramírez
SR2249	Fern Forest Nature Center, Coconut Creek, FL	USA	13-Aug-09	S. Ramírez
SR2288	Area de Conservation Guanacaste, Santa Rosa	Costa Rica	25-Oct-09	E. Pringle
SR2289	Area de Conservation Guanacaste, Santa Rosa	Costa Rica	25-Oct-09	E. Pringle
SR2290	Area de Conservation Guanacaste, Santa Rosa	Costa Rica	25-Oct-09	E. Pringle
SR2291	Area de Conservation Guanacaste, Santa Rosa	Costa Rica	25-Oct-09	E. Pringle
SR2292	Area de Conservation Guanacaste, Santa Rosa	Costa Rica	25-Oct-09	E. Pringle
SR2293	Area de Conservation Guanacaste, Santa Rosa	Costa Rica	25-Oct-09	E. Pringle
SR2294	Area de Conservation Guanacaste, Santa Rosa	Costa Rica	25-Oct-09	E. Pringle
SR2295	Area de Conservation Guanacaste, Santa Rosa	Costa Rica	25-Oct-09	E. Pringle
SR2296	Area de Conservation Guanacaste, Santa Rosa	Costa Rica	26-Oct-09	E. Pringle
SR2297	Area de Conservation Guanacaste, Santa Rosa	Costa Rica	26-Oct-09	E. Pringle
SR2298	Area de Conservation Guanacaste, Santa Rosa	Costa Rica	26-Oct-09	E. Pringle
VE3Z204	El Remate, Halacho, Campeche	Mexico	19-Mar-08	T. Eltz
VE3Z205	El Remate, Halacho, Campeche	Mexico	19-Mar-08	T. Eltz
VE3Z206	El Remate, Halacho, Campeche	Mexico	19-Mar-08	T. Eltz

Voucher No.	Population locality	Country	Collection date	Collector
VE3Z207	El Remate, Halacho, Campeche	Mexico	19-Mar-08	T. Eltz
VE3Z208	El Remate, Halacho, Campeche	Mexico	19-Mar-08	T. Eltz
VE3Z211	El Remate, Halacho, Campeche	Mexico	19-Mar-08	T. Eltz
VE3Z212	El Remate, Halacho, Campeche	Mexico	19-Mar-08	T. Eltz
VE3Z214	El Remate, Halacho, Campeche	Mexico	19-Mar-08	T. Eltz
VE3Z215	El Remate, Halacho, Campeche	Mexico	19-Mar-08	T. Eltz
VE3Z217	El Remate, Halacho, Campeche	Mexico	19-Mar-08	T. Eltz
VE3Z218	El Remate, Halacho, Campeche	Mexico	19-Mar-08	T. Eltz
VE3Z220	El Remate, Halacho, Campeche	Mexico	19-Mar-08	T. Eltz
VE3Z221	El Remate, Halacho, Campeche	Mexico	19-Mar-08	T. Eltz
VE3Z224	El Chote, Veracruz	Mexico	08-Sept-08	T. Eltz & F. Fritzsch
VE3Z225	El Chote, Veracruz	Mexico	08-Sept-08	T. Eltz & F. Fritzsch
VE3Z226	El Chote, Veracruz	Mexico	08-Sept-08	T. Eltz & F. Fritzsch
VE3Z227	El Chote, Veracruz	Mexico	08-Sept-08	T. Eltz & F. Fritzsch
VE3Z228	El Chote, Veracruz	Mexico	08-Sept-08	T. Eltz & F. Fritzsch
VE3Z229	El Chote, Veracruz	Mexico	08-Sept-08	T. Eltz & F. Fritzsch
VE3Z230	El Chote, Veracruz	Mexico	08-Sept-08	T. Eltz & F. Fritzsch
VE3Z231	El Chote, Veracruz	Mexico	08-Sept-08	T. Eltz & F. Fritzsch
VE3Z232	El Chote, Veracruz	Mexico	08-Sept-08	T. Eltz & F. Fritzsch
VE3Z233	El Chote, Veracruz	Mexico	08-Sept-08	T. Eltz & F. Fritzsch
VE3Z234	El Chote, Veracruz	Mexico	08-Sept-08	T. Eltz & F. Fritzsch
VE3Z235	El Chote, Veracruz	Mexico	08-Sept-08	T. Eltz & F. Fritzsch
VE3Z236	El Chote, Veracruz	Mexico	08-Sept-08	T. Eltz & F. Fritzsch
VE3Z237	El Chote, Veracruz	Mexico	08-Sept-08	T. Eltz & F. Fritzsch
VE3Z238	El Chote, Veracruz	Mexico	08-Sept-08	T. Eltz & F. Fritzsch
VE3Z255	Monte Pio, Veracruz	Mexico	10-Sept-08	T. Eltz & F. Fritzsch
VE3Z256	Monte Pio, Veracruz	Mexico	10-Sept-08	T. Eltz & F. Fritzsch
VE3Z257	Monte Pio, Veracruz	Mexico	10-Sept-08	T. Eltz & F. Fritzsch
VE3Z258	Monte Pio, Veracruz	Mexico	10-Sept-08	T. Eltz & F. Fritzsch
VE3Z259	Monte Pio, Veracruz	Mexico	10-Sept-08	T. Eltz & F. Fritzsch
VE3Z260	Monte Pio, Veracruz	Mexico	10-Sept-08	T. Eltz & F. Fritzsch
VE3Z261	Monte Pio, Veracruz	Mexico	10-Sept-08	T. Eltz & F. Fritzsch
VE3Z262	Monte Pio, Veracruz	Mexico	10-Sept-08	T. Eltz & F. Fritzsch
VE3Z263	Monte Pio, Veracruz	Mexico	10-Sept-08	T. Eltz & F. Fritzsch
VE3Z264	Monte Pio, Veracruz	Mexico	10-Sept-08	T. Eltz & F. Fritzsch
VE3Z265	Monte Pio, Veracruz	Mexico	10-Sept-08	T. Eltz & F. Fritzsch
VE3Z266	Monte Pio, Veracruz	Mexico	10-Sept-08	T. Eltz & F. Fritzsch
VE3Z267	Monte Pio, Veracruz	Mexico	10-Sept-08	T. Eltz & F. Fritzsch
VE3Z268	Monte Pio, Veracruz	Mexico	10-Sept-08	T. Eltz & F. Fritzsch
VE3Z269	Monte Pio, Veracruz	Mexico	10-Sept-08	T. Eltz & F. Fritzsch
VE3Z285	Xmatkuil, Yucatán	Mexico	21-Sept-08	T. Eltz & F. Fritzsch
VE3Z286	Xmatkuil, Yucatán	Mexico	21-Sept-08	T. Eltz & F. Fritzsch
VE3Z287	Xmatkuil, Yucatán	Mexico	21-Sept-08	T. Eltz & F. Fritzsch
VE3Z288	Xmatkuil, Yucatán	Mexico	21-Sept-08	T. Eltz & F. Fritzsch
VE3Z289	Xmatkuil, Yucatán	Mexico	21-Sept-08	T. Eltz & F. Fritzsch
VE3Z290	Xmatkuil, Yucatán	Mexico	21-Sept-08	T. Eltz & F. Fritzsch
VE3Z291	Xmatkuil, Yucatán	Mexico	21-Sept-08	T. Eltz & F. Fritzsch
VE3Z292	Xmatkuil, Yucatán	Mexico	21-Sept-08	T. Eltz & F. Fritzsch
VE3Z293	Xmatkuil, Yucatán	Mexico	21-Sept-08	T. Eltz & F. Fritzsch
VE3Z294	Xmatkuil, Yucatán	Mexico	21-Sept-08	T. Eltz & F. Fritzsch
VE3Z296	Xmatkuil, Yucatán	Mexico	21-Sept-08	T. Eltz & F. Fritzsch
VE3Z297	Xmatkuil, Yucatán	Mexico	21-Sept-08	T. Eltz & F. Fritzsch
VE3Z298	Xmatkuil, Yucatán	Mexico	21-Sept-08	T. Eltz & F. Fritzsch
VE3Z299	Xmatkuil, Yucatán	Mexico	21-Sept-08	T. Eltz & F. Fritzsch
VE3Z301	Xmatkuil, Yucatán	Mexico	21-Sept-08	T. Eltz & F. Fritzsch

Supplementary Material Appendix 2. List of high-boiling point lipid compounds present in hind leg and labial gland extracts of male *Euglossa* aff. *viridissima.*

Compound name	Library entry #	Retention time (min)	Incidence (%)	Detected in labial glands?
(11Z)-eicosene-1-yl acetate	1)	58.154	100.00	Yes
pentacosene	169)	60.483	100.00	Yes
heptacosene	5)	65.501	100.00	Yes
m/z:57,71,85,99,113,127,141,155,352	80)	61.141	99.12	Yes
(9Z)-eicosene-1, 20-diyl diacetate	2)	68.264	97.37	Yes
m/z:57,71,85,99,113,127,141,155,324	56)	55.865	92.11	Yes
m/z:57,71,85,99,113,127,141,155,380	81)	66.039	87.72	Yes
m/z:55,67,81,95,110,121,135,149,163,336	248)	66.136	71.05	No
m/z:57,69,83,97,111,125,139,153,167,207,281,364	170)	63.012	66.67	No
m/z:55,61,69,83,97,111,125,139,154,224,252	6)	53.364	64.04	Yes
m/z:57,69,83,97,111,125,139,153,167,207,434	404)	74.421	59.65	No
m/z:57,71,85,99,113,127,141,155,169,408	104)	70.599	57.02	No
octacosa-1,18-diyl diacetate	4)	64.179	54.39	Yes
m/z:57,69,83,97,111,125,139,153,167,406	143)	70.084	50.00	No
m/z:55,67,79,91,106,119,133,147,161,175,207,264,332	78)	67.538	42.98	No
m/z:57,69,83,97,111,125,139,153,462	151)	78.501	42.98	No
m/z:55,67,82,96,110,124,138,152,348	357)	60.363	38.60	No
m/z:55,69,81,95,109,121,137,149,410	260)	69.037	35.96	No
m/z:55,69,83,97,111,128,185,242,264,282	389)	51.35	35.09	No
m/z:55,71,85,97,207,281,296,341	210)	74.868	21.05	No
m/z:55,67,82,96,109,123,175,201,207,224,258,290,308	75)	57.079	23.68	No
m/z:55,67,81,95,109,121,135,149,165,351,430,454	465)	75.692	21.05	No
m/z:57,69,83,97,111,125,139,153,207,336	380)	57.85	20.18	No
m/z:55,67,81,95,109,121,135,149,163,177,276,293,336	122)	58.022	19.30	No
m/z:55,67,80,93,107,121,135,149,163,177,334,392,446	121)	67.813	13.16	No
eicos-1-yl aetate	3)	58.336	12.28	Yes
m/z:55,67,81,95,109,121,135,149,292,364	426)	60.958	4.39	No
m/z:55,69,79,88,95,101,111,123,135,264,281,310	7)	52.151	3.51	Yes
m/z:55,67,82,96,110,124,138,152,166,175,250,260,281	356)	52.770	3.51	No
m/z:55,69,81,93,107,121,136,145,159,270,288	405)	52.78	3.51	No
m/z:55,67,81,95,109,121,135,149,163,182,197,212,238,378	259)	63.435	3.51	No
m/z:55,69,81,93,107,119,134,147,161,173,183,191,201,216,226,244,257,272	384)	46.109	2.63	No
m/z:55,69,81,93,107,123,136,149,204,270	407)	53.553	2.63	No
m/z:55,67,81,95,110,124,135,149,163,178,192,207,219,267,276,284,293,307,336,353	96)	66.142	1.75	No
m/z:55,69,81,93,111,121,136,149,161,177,192,207,247,273	111)	56.065	1.75	No
m/z:55,67,81,95,110,121,135,149,163,207,281,353	77)	58.749	0.88	No
m/z:55,67,81,95,108,121,135,149,157,163,171,177,186,200,207,213,228	196)	62.657	0.88	No
m/z:55,71,82,96,110,124,138,157,171,186,200,213,228,278,326	401)	62.806	0.88	Yes
m/z:55,71,85,99,113,127,141,155,169,183,197,207,225,253,281,295,323,408	79)	70.611	0.88	No
m/z:57,71,85,99,113,127,141,155,169,,183,197,211,225,239,253,267,464	411)	78.867	0.88	No
m/z:55,69,81,93,107,121,135,149,161,175,189,203,218,229,299,446	441)	73.151	0.88	Nos

Supplementary Material Appendix 3. Similarity Percentage (SIMPER) results indicating the relative contribution of each compound to the observed dissimilarity between all pairwise comparisons. For each comparison, only the five compounds with the highest contribution (percentage) were included.

Gumbo-Limbo & Fern Forest	Gumbo-Limbo	Fern Forest		
Compound	Avg Abundance (%)	Avg Abundance (%)	Contrib dissimilarity (%)	Cum.%
triclopyr BEE	38	18	23.97	23.97
HNDB1	5	16	11.58	35.55
eugenol	13	10	9.26	44.81
benzyl cinnamate	6	3	4.64	49.45
methyl ester	1	6	3.98	53.43

Gumbo-Limbo & ACG	Gumbo-Limbo	ACG		
Compound	Avg Abundance (%)	Avg Abundance (%)	Contrib dissimilarity (%)	Cum.%
HNDB1	5	44	22.69	22.69
triclopyr BEE	38	0	21.2	43.89
ocimene, beta	1	27	14.44	58.33
eugenol	13	3	6.7	65.02
benzyl cinnamate	6	0	3.1	68.13

Fern Forest & ACG	Fern Forest	ACG		
Compound	Avg Abundance (%)	Avg Abundance (%)	Contrib dissimilarity (%)	Cum.%
HNDB1	16	44	24.2	24.2
ocimene, beta	1	27	15.22	39.41
triclopyr BEE	18	0	10.47	49.88
eugenol	10	3	5.47	55.35
methyl ester	6	0	3.52	58.87

Gumbo-Limbo & El Remate	Gumbo-Limbo	El Remate		
Compound	Avg Abundance (%)	Avg Abundance (%)	Contrib dissimilarity (%)	Cum.%
triclopyr BEE	38	0	20.99	20.99
HNDB1	5	25	12.88	33.87
eugenol	13	3	7.14	41.01
#376 (sesquiterpene)	0	11	6.24	47.25
benzyl cinnamate	6	9	5.99	53.24

Fern Forest & El Remate	Fern Forest	El Remate		
Compound	Avg Abundance (%)	Avg Abundance (%)	Contrib dissimilarity (%)	Cum.%
HNDB1	16	25	15.27	15.27
triclopyr BEE	18	0	10.07	25.34
#376 (sesquiterpene)	0	11	6.4	31.74
Eugenol	10	3	5.67	37.41
benzyl cinnamate	3	9	5.6	43.01

ACG & El Remate	ACG	El Remate		
Compound	Avg Abundance (%)	Avg Abundance (%)	Contrib dissimilarity (%)	Cum.%
HNDB1	44	25	18.45	18.45
ocimene, beta	27	0	17.76	36.2
#376 (sesquiterpene)	0	11	7.66	43.87
benzyl cinnamate	0	9	6.27	50.14
bisabolene, beta-	0	9	5.91	56.05

Gumbo-Limbo & El Chote	Gumbo-Limbo	El Chote		
Compound	Avg Abundance (%)	Avg Abundance (%)	Contrib dissimilarity (%)	Cum.%
triclopyr BEE	38	0	22.4	22.4
Eugenol	13	28	14.74	37.13
HNDB1	5	4	4.3	41.43
benzyl benzoate	0	7	4.01	45.45
benzyl cinnamate	6	2	3.86	49.31

Fern Forest & El Chote	Fern Forest	El Chote		
Compound	Avg Abundance (%)	Avg Abundance (%)	Contrib dissimilarity (%)	Cum.%
Eugenol	10	28	14.36	14.36
triclopyr BEE	18	0	10.37	24.73
HNDB1	16	4	9.42	34.15
benzyl benzoate	0	7	3.99	38.14
A52 (#415)	0	6	3.63	41.77

ACG & El Chote	ACG	El Chote		
Compound	Avg Abundance (%)	Avg Abundance (%)	Contrib dissimilarity (%)	Cum.%
HNDB1	44	4	23.29	23.29
Eugenol	3	28	14.66	37.95
ocimene, beta	27	4	14.14	52.09
benzyl benzoate	0	7	3.88	55.97
A52 (#415)	0	6	3.55	59.53

El Remate & El Chote	El Remate	El Chote		
Compound	Avg Abundance (%)	Avg Abundance (%)	Contrib dissimilarity (%)	Cum.%
Eugenol	3	28	14.94	14.94
HNDB1	25	4	12.64	27.58
#376 (sesquiterpene)	11	0	6.47	34.05
HNDB2	10	0	5.4	39.46
benzyl cinnamate	9	2	5.4	44.85

Gumbo-Limbo & Monte Pio	Gumbo-Limbo	Monte Pio		
Compound	Avg Abundance (%)	Avg Abundance (%)	Contrib dissimilarity (%)	Cum.%
HNDB1	5	46	24.01	24.01
triclopyr BEE	38	0	21.97	45.98
Eugenol	13	8	7.27	53.24
benzyl benzoate	0	9	4.97	58.21
isolemecin, trans-	5	4	3.56	61.76

Fern Forest & Monte Pio	Fern Forest	Monte Pio		
Compound	Avg Abundance (%)	Avg Abundance (%)	Contrib dissimilarity (%)	Cum.%
HNDB1	16	46	24.96	24.96
triclopyr BEE	18	0	10.74	35.7
Eugenol	10	8	6.16	41.86
benzyl benzoate	0	9	5.22	47.08
methyl ester	6	0	3.61	50.69

ACG & Monte Pio	ACG	Monte Pio		
Compound	Avg Abundance (%)	Avg Abundance (%)	Contrib dissimilarity (%)	Cum.%
ocimene, beta	27	2	21.7	21.7
HNDB1	44	46	19.99	41.69
benzyl benzoate	0	9	7.39	49.08
Eugenol	3	8	5.22	54.31

#72	3	0	2.93	57.24

El Remate & Monte Pio	El Remate	Monte Pio		
Compound	Avg Abundance (%)	Avg Abundance (%)	Contrib dissimilarity (%)	Cum.%
HNDB1	25	46	19.63	19.63
#376 (sesquiterpene)	11	1	8.54	28.16
benzyl cinnamate	9	1	7.35	35.51
benzyl benzoate	8	9	6.52	42.04
bisabolene, beta-	9	1	6.4	48.43

Monte Pio & Xmatkuil	El Chote	Monte Pio		
Compound	Avg Abundance (%)	Avg Abundance (%)	Contrib dissimilarity (%)	Cum.%
HNDB1	4	46	26.07	26.07
Eugenol	28	8	15.16	41.22
benzyl benzoate	7	9	6.36	47.58
A52 (#415)	6	0	3.9	51.48
triterpene # 59	5	2	2.67	54.15

Gumbo-Limbo & Xmatkuil	Gumbo-Limbo	Xmatkuil		
Compound	Avg Abundance (%)	Avg Abundance (%)	Contrib dissimilarity (%)	Cum.%
HNDB1	5	54	28.08	28.08
triclopyr BEE	38	0	21.96	50.03
Eugenol	13	8	7.58	57.62
benzyl cinnamate	6	0	3.21	60.83
Caryophyllene	5	5	3.15	63.98

Fern Forest & Xmatkuil	Fern Forest	Xmatkuil		
Compound	Avg Abundance (%)	Avg Abundance (%)	Contrib dissimilarity (%)	Cum.%
HNDB1	16	54	29.25	29.25
triclopyr BEE	18	0	10.99	40.23
Eugenol	10	8	6.64	46.87
methyl ester	6	0	3.7	50.57
A317 (#228)	5	0	3.28	53.84

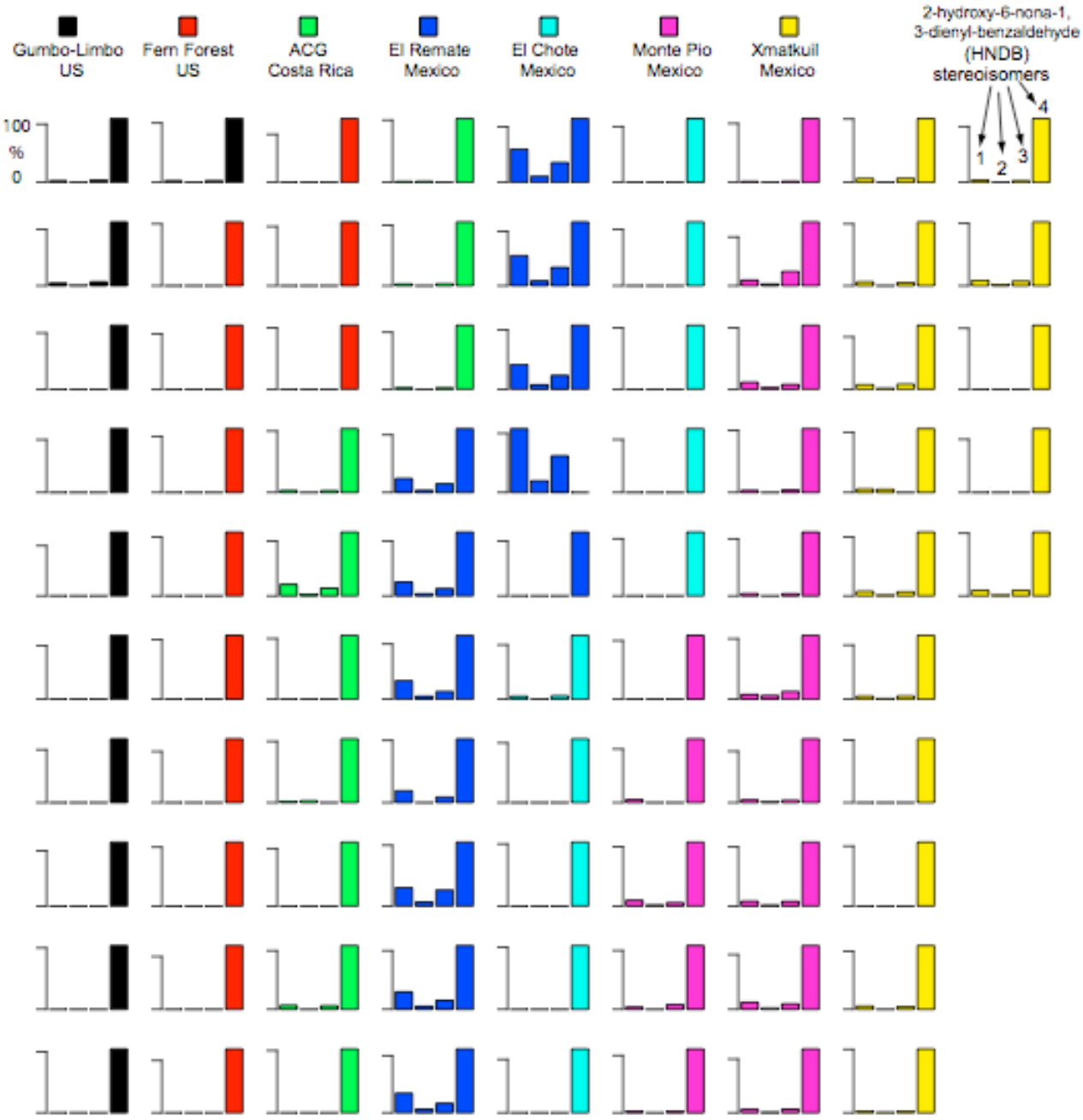
ACG & Xmatkuil	ACG	Xmatkuil		
Compound	Avg Abundance (%)	Avg Abundance (%)	Contrib dissimilarity (%)	Cum.%
ocimene, beta	27	1	23.6	23.6
HNDB1	44	54	20.4	44
Eugenol	3	8	5.56	49.56
Caryophyllene	2	5	4.82	54.38
A37 (#373)	0	4	3.59	57.97

El Remate & Xmatkuil	ElRemate	Xmatkuil		
Compound	Avg Abundance (%)	Avg Abundance (%)	Contrib dissimilarity (%)	Cum.%
HNDB1	25	54	22.97	22.97
#376 (sesquiterpene)	11	0	8.5	31.47
benzyl cinnamate	9	0	6.98	38.45
bisabolene, beta-	9	0	6.56	45.01
Eugenol	3	8	5.88	50.89

El Chote & Xmatkuil	ElChote	Xmatkuil		
Compound	Avg Abundance (%)	Avg Abundance (%)	Contrib dissimilarity (%)	Cum.%
HNDB1	4	54	30.15	30.15
Eugenol	28	8	15.03	45.19
benzyl benzoate	7	2	4.25	49.44
A37 (#373)	4	4	3.9	53.34

A52 (#415)	6	0	3.81	57.14

Monte Pio & Xmatkuil	MontePio	Xmatkuil		
Compound	Avg Abundance (%)	Avg Abundance (%)	Contrib dissimilarity (%)	Cum.%
HNDB1	46	54	21.05	21.05
benzyl benzoate	9	2	8.64	29.69
Eugenol	8	8	8.16	37.85
Caryophyllene	1	5	4.65	42.5
A37 (#373)	1	4	4.07	46.56



Supplementary Material Figure 1. Barplots showing the relative abundances (ratios) of four stereoisomers of 2-hydroxy-6-nona-1,3-dienyl-benzaldehyde (HNDB) present in the fragrances of male *Euglossa.* aff. v*iridissima* across native and introduced populations.