

Supplementary Materials

Honeybee Pollen Extracts Reduce Oxidative Stress and Steatosis in Hepatic Cells

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Table S1. Botanical origin and classification of bee pollen samples. Data is represented as the percentage of participation of each species in the total sample, according to weight of grams of pollen loads.

2018									
Sample	Classification	Predominant Species (≥45%)		Secondary Species (16-45%)		Important Minor Species (3-15%)		Minor Species (≤3%)	
1 (65)	Multifloral Non-Native					<i>Eschscholzia californica</i>	15.41	<i>Cuscuta chilensis</i> 2.24 <i>Fungus Spores</i> 0.84	
						<i>Adesmia arborea</i>	15.13		
						<i>Taraxacum officinale</i>	12.89		
						<i>Cryptocarya alba</i>	10.92		
						<i>Peumus boldus</i>	10.92		
						<i>Schinus molle</i>	9.81		
						<i>Sophora macrocarpa</i>	8.96		
						<i>Brassica rapa</i>	8.96		
						<i>Raphanus sativus</i>	3.92		
2 (37)	Multifloral Non-Native			<i>Eschscholzia californica</i>	37.42	<i>Anthemis cotula</i>	9.61	<i>Cissus striata</i> 1.84	
				<i>Brassica rapa</i>	22.7	<i>Carduus sp.</i>	6.54		
				<i>Eucalyptus sp</i>	16.36	<i>Schinus latifolius</i>	5.52		
3 (67)	Multifloral Non-Native			<i>Brassica rapa</i> 37		<i>Cryptocarya alba</i>	14.2		
						<i>Sophora macrocarpa</i>	11.2		
						<i>Cactaceae</i>	11		
						<i>Adesmia arborea</i>	9.4		
						<i>Peumus boldus</i>	7.4		
						<i>Eschscholzia californica</i>	5.8		
						<i>Taraxacum officinale</i>	4		
4 (53)	Monofloral Non-Native	<i>Brassica rapa</i> 51.12		<i>Cryptocarya alba</i> 17.94		<i>Anthemis cotula</i>	11.66		
						<i>Peumus boldus</i>	7.85		
						<i>Eschscholzia californica</i>	6.05		
						<i>Raphanus sativus</i>	5.38		
5 (38)	Monofloral Non-Native	<i>Brassica rapa</i> 46.09		<i>Adesmia arborea</i> 21.14		<i>Colliguaja odorifera</i>	8.67		
						<i>Eschscholzia californica</i>	7.82		
						<i>Taraxacum officinale</i>	7.61		
						<i>Schinus latifolius</i>	5.49		
						<i>Azara celastrina</i>	3.17		
6 (32)	Multifloral Native			<i>Acacia caven</i>	41.64	<i>Brassica rapa</i>	15.43	<i>Schinus latifolius</i> 2.97 <i>Colliguaja odorifera</i> 0.19	
				<i>Eschscholzia californica</i>	18.22	<i>Hypochaeris radicata</i>	9.29		
						<i>Baccharis linearis</i>	6.13		
						<i>Aextoxicon punctatum</i>	6.13		
7 (56)	Monofloral Non-Native	<i>Brassica rapa</i> 47.11		<i>Cryptocarya alba</i> 24.89		<i>Azara petiolaris</i>	14.22		
						<i>Eschscholzia californica</i>	7.78		
						<i>Hypochaeris radicata</i>	6		
8 (55)	Multifloral Non-Native			<i>Brassica rapa</i>	42.66	<i>Azara petiolaris</i>	14.45		

				<i>Cryptocarya alba</i>	18.28	<i>Eschscholzia californica</i>	14.45		
						<i>Hypochaeris radicata</i>	10.16		
9 (35)	Monofloral Non-Native	<i>Brassica rapa</i>	65.39	<i>Colliguaja odorifera</i>	17.3			<i>Baccharis linearis</i>	1.21
				<i>Amomyrtus luma</i>	16.10				
10 (51)	Monofloral Non-Native	<i>Brassica rapa</i>	53.73	<i>Eschscholzia californica</i>	21.93	<i>Cryptocarya alba</i>	7.9	<i>Acacia caven</i>	2.85
						<i>Trichocereus chilensis</i>	5.7	<i>Anthemis cotula</i>	1.97
						<i>Maytenus boaria</i>	5.48	<i>Foeniculum vulgare</i>	0.44
11 (39)	Multifloral Non-Native			<i>Azara celastrina</i>	23.83	<i>Cryptocarya alba</i>	15.43		
				<i>Non identified</i>	19.34	<i>Eschscholzia californica</i>	14.45	<i>Convolvulus arvensis</i>	1.76
						<i>Brassica rapa</i>	10.94		
						<i>Kageneckia oblonga</i>	8.01		
						<i>Cactaceae</i>	6.25		
12 (42)	Multifloral Non-Native			<i>Cryptocarya alba</i>	36.15	<i>Eschscholzia californica</i>	11.26		
				<i>Brassica rapa</i>	25.97	<i>Adesmia arborea</i>	8.66	<i>Carduus pycnocephalus</i>	0.22
						<i>Eucalyptus sp.</i>	8.23		
						<i>Sophora macrocarpa</i>	5.2		
						<i>Lomatia hirsuta</i>	4.11		
13 (33)	Monofloral Non-Native	<i>Brassica sp.</i>	89.29			<i>Colliguaja odorifera</i>	4.37	<i>Raphanus sativus</i>	1.57
						<i>Eschscholzia californica</i>	3.57	<i>Hypochaeris radicata</i>	1.19
14 (40)	Multifloral Non-Native			<i>Brassica rapa</i>	30.03	<i>Cryptocarya alba</i>	15.41		
				<i>Adesmia arborea</i>	16.71	<i>Schinus latifolius</i>	13.06	<i>Anthemis cotula</i>	3.66
						<i>Convolvulus arvensis</i>	10.97		
						<i>Azara celastrina</i>	10.18		
15 (63)	Multifloral Non-Native					<i>Brassica rapa</i>	14.64		
						<i>Eucalyptus sp.</i>	10.63		
						<i>Raphanus sativus</i>	8.42		
						<i>Schinus latifolius</i>	7.49		
						<i>Scolymus sp.</i>	7.15		
						<i>Adesmia arborea</i>	6.68		
						<i>Rosaceae</i>	6.05		
						<i>Cactaceae</i>	5.42		
						<i>Maytenus boaria</i>	5.2		
						<i>Epilobium sp.</i>	4.99		
						<i>Acacia melanoxylon</i>	4.91		
						<i>Fungus spores</i>	4.87		
						<i>Fern spores</i>	4.82		
						<i>Azara petiolaris</i>	4.69		
							4.65		
16 (62)	Multifloral Non-Native			<i>Brassica rapa</i>	33.33	<i>Hypochaeris radicata</i>	13.53		
				<i>Cryptocarya alba</i>	18.12	<i>Raphanus sativus</i>	9.18		
						<i>Schinus latifolius</i>	7.49		
						<i>Adesmia arborea</i>	7.25		
						<i>Carduus sp.</i>	6.28		

					<i>Anthemis cotula</i>	4.83			
17 (61)	Monofloral Non-Native	<i>Brassica rapa</i>	59.45		<i>Cryptocarya alba</i>	14.75	<i>Carduus pycnocephalus</i>	2.07	
					<i>Schinus latifolius</i>	9.22			
					<i>Hypochaeris radicata</i>	5.76			
					<i>Adesmia arborea</i>	4.84			
					<i>Eschscholzia californica</i>	3.92			
18 (31)	Multifloral Non-Native			<i>Eschscholzia californica</i>	41.45	<i>Schinus latifolius</i>	11.27	<i>Trichocereus chilensis</i>	2.62
				<i>Brassica rapa</i>	34.21	<i>Medicago sativa</i>	7.24	<i>Galega officinalis</i>	1.21
19 (36)	Multifloral Non-Native			<i>Cryptocarya alba</i>	36.61	<i>Eschscholzia californica</i>	12.2	<i>Eucalyptus globulus</i>	0.18
				<i>Brassica rapa</i>	35.7	<i>Raphanus sativus</i>	8.19		
						<i>Taraxacum officinale</i>	7.1		
20 (57)	Multifloral Non-Native			<i>Eschscholzia californica</i>	39.61	<i>Fumaria officinalis</i>	10.17	<i>Acacia caven</i>	1.95
				<i>Cryptocarya alba</i>	24.03	<i>Unidentifies pollen</i>	6.93		
				<i>Anthemis cotula</i>	17.32				
21 (52)	Multifloral Non-Native			<i>Brassica rapa</i>	27.14	<i>Cryptocarya alba</i>	6.89	<i>Azara celastrina</i>	1.25
				<i>Lythrum hyssopifolia</i>	20.88	<i>Schinus latifolius</i>	3.97		
				<i>Robinia pseudoacacia</i>	16.49	<i>Anemone nemorosa</i>	3.76		
				<i>Eschscholzia californica</i>	15.87	<i>Maytenus boaria</i>	3.76		
22 (43)	Multifloral Non-Native			<i>Brassica rapa</i>	38.29	<i>Cactaceae</i>	12.39	<i>Anthemis cotula</i>	2.2
				<i>Eschscholzia californica</i>	23.42	<i>Adesmia arborea</i>	11.29	<i>Carduus pycnocephalus</i>	0.83
						<i>Schinus latifolius</i>	8.26		
						<i>Trichocereus chiloensis</i>	3.31		
23 (54)	Monofloral Native	<i>Cryptocarya alba</i>	45.04	<i>Eschscholzia californica</i>	20.66	<i>Taraxacum officinale</i>	8.47	<i>Brassica rapa</i> <i>Luma apiculata</i>	1.45 0.83
						<i>Foeniculum vulgare</i>	7.65		
						<i>Schinus latifolius</i>	7.44		
						<i>Acacia caven</i>	5.37		
						<i>Anthemis cotula</i>	3.1		
24 (41)	Monofloral Non-Native	<i>Brassica rapa</i>	45.23			<i>Schinus latifolius</i>	13.69	<i>Anthemis cotula</i> <i>Carduus sp.</i>	2.45 2.2
						<i>Azara celastrina</i>	11.74		
						<i>Taraxacum officinale</i>	9.05		
						<i>Raphanus sativus</i>	7.58		
						<i>Oenothera sp.</i>	4.89		
						<i>Cuscuta chilensis</i>	3.18		
25 (60)	Multifloral Non-Native			<i>Brassica rapa</i>	29.07	<i>Hypochaeris radicata</i>	10.47	<i>Cuscuta chilensis</i>	2.33
				<i>Cryptocarya alba</i>	25.35	<i>Eschscholzia californica</i>	8.84		
				<i>Azara petiolaris</i>	20.47	<i>Carduus sp.</i>	3.49		
26 (45)	Monofloral Native	<i>Cryptocarya alba</i>	56.58			<i>Eschscholzia californica</i>	11.4	<i>Acacia caven</i>	2.41
						<i>Malva sp.</i>	10.31	<i>Crataegus monogyna</i>	1.75
						<i>Cactaceae</i>	7.24	<i>Maytenus boaria</i>	0.22
						<i>Anthemis cotula</i>	6.36		

					<i>Dicliptera sp.</i>	3.73			
27 (44)	Monofloral Native	<i>Cryptocarya alba</i>	45.67		<i>Eschscholzia californica</i>	13.88			
					<i>Anthemis cotula</i>	11.07			
					<i>Schinus polygamus</i>	8.25			
					<i>Carduus sp.</i>	6.24	<i>Brassica rapa</i>	2.62	
					<i>Schinus latifolius</i>	4.63			
					<i>Acacia caven</i>	4.43			
					<i>Fabaceae nn</i>	3.22			
28 (58)	Multifloral Non-Native			<i>Cryptocarya alba</i>	29.47				
				<i>Anthemis cotula</i>	18.34				
						<i>Baccharis linearis</i>	11.83		
						<i>Cactaceae nn</i>	10.58		
						<i>Colliguaja odorifera</i>	10.42		
				<i>Maytenus boaria</i>	9.95				
				<i>Schinus latifolius</i>	9.4				