

SUPPLEMENTARY MATERIAL

Table S1. List of orders, families, and species or morphospecies identified in the four crops: *Persea americana* (green dots), *Malus domestica* (red dots), *Rubus* (purple dots) spp., and *Prunus domestica* (blue dots) in San Gerardo de Dota, Costa Rica.

Order	Lowest taxonomic assignment	Plants			
		Avocado	Apple	Plum	Blackberry
Diptera	<i>Acronacantha</i> sp1				
Lepidoptera	<i>Aellopos titan</i>				
Hymenoptera	<i>Agelaia melanopyga</i>				
Hymenoptera	<i>Agelaia panamensis</i>				
Hymenoptera	<i>Agelaia xanthopus</i>				
Hymenoptera	<i>Agelaia yepocapa</i>				
Diptera	Agromyzidae				
Diptera	<i>Agrophaspidium</i> sp1				
Diptera	<i>Allograpta</i>				
Diptera	<i>Allograpta neotropica</i>				
Diptera	<i>Allograpta</i> sp1				
Coleoptera	Alticini				
Hymenoptera	Alysiinae				
Diptera	<i>Anisia</i> sp1				
Diptera	Anisopodidae				
Diptera	<i>Anthomya</i> sp1				
Hemiptera	Aphididae				
Hymenoptera	<i>Apis mellifera</i>				
Diptera	<i>Archytas</i> sp1				
Diptera	<i>Argentinomyia</i>				
Diptera	<i>Argentinomyia</i> sp1				
Diptera	<i>Argentinomyia</i> sp2				
Diptera	<i>Argentinomyia</i> sp3				

Diptera	<i>Argentinomyia</i> sp4	●			
Coleoptera	<i>Astylus indentatus</i>	●	●	●	●
Diptera	Bibionidae	●			
Diptera	<i>Biorbitella</i> sp1	●	●		
Diptera	Blephariceridae	●			
Hymenoptera	<i>Bombus ephippiatus</i>	●	●	●	●
Hymenoptera	<i>Bombus pullatus</i>	●	●		
Hymenoptera	<i>Bombus volluceloides</i>	●		●	
Diptera	<i>Bombyliomyia</i> sp1	●			
Coleoptera	<i>Brachypnoea</i> sp1	●			
Hymenoptera	<i>Bracon</i>	●			
Hymenoptera	Braconidae	●			
Diptera	<i>Brontaea</i> sp1	●			
Diptera	<i>Brontaea</i> sp2	●			
Diptera	<i>Brontaea</i> sp3	●			
Diptera	<i>Brontaea</i> sp4	●			
Diptera	<i>Brontaea</i> sp5	●			
Diptera	<i>Calliphora</i>	●			
Diptera	<i>Calolydella</i> sp1	●			
Diptera	<i>Calolydella</i> sp2	●			
Diptera	<i>Calolydella</i> sp3	●			
Diptera	<i>Calythea</i> sp1	●			
Hymenoptera	Campopleginae	●			
Diptera	Ceratopogonidae	●			
Diptera	<i>Ceromyia</i> sp1	●			
Diptera	<i>Chaetostigma</i> sp1	●			
Diptera	<i>Chaetostigma</i> sp2	●			

Diptera	<i>Chaetostigma</i> sp3	●		
Diptera	<i>Chaetostigma</i> sp4	●		
Diptera	Chironomidae	●		
Diptera	Chloropidae	●		
Diptera	<i>Chrysoexorista</i> sp1	●		
<i>Coleoptera</i>	Chrysomelidae		●	
Hemiptera	Cicadellidae	●		
Hemiptera	Cixiidae	●		
<i>Coleoptera</i>	Coccinellidae	●	●	
Diptera	<i>Coenosia</i> sp1	●		
Diptera	<i>Comptosia</i> sp1	●		
Hemiptera	Coniopterygidae	●		
Diptera	Conopidae		●	●
<i>Coleoptera</i>	<i>Conotelus</i> sp1		●	
Diptera	<i>Copestylum</i> sp1			●
Diptera	Culicidae	●		
<i>Coleoptera</i>	Curculionidae	●		
Hymenoptera	Cynipinae	●		
Diptera	<i>Distichona</i> sp1	●		
Diptera	Dolichopodidae	●		
Diptera	<i>Drosophila</i> sp3	●		
Diptera	<i>Drosophila</i> sp4	●		
Diptera	<i>Drosophila</i> sp5	●		
Diptera	<i>Drosophila</i> sp6	●		
Diptera	<i>Drosophila</i> sp7	●		
Hymenoptera	<i>Ectemnius</i> sp2	●		
<i>Coleoptera</i>	Elaterridae	●		
Hymenoptera	Encyrtidae	●		

Hymenoptera	Entedoninae	●		
Diptera	<i>Epalpus</i> sp1	●		
Diptera	<i>Epalpus</i> sp2	●		
Diptera	<i>Epalpus</i> sp3	●		●
Diptera	<i>Epalpus</i> sp4	●		
Diptera	<i>Epalpus</i> sp6	●		
Diptera	<i>Epalpus</i> sp7	●		
Diptera	Ephydridae	●		
Hymenoptera	<i>Epipona guerini</i>		●	●
Diptera	<i>Erythromelana</i> sp1	●		
Diptera	<i>Eucelatoria</i> sp1	●		
Hymenoptera	Eucoilinae	●	●	●
Diptera	<i>Eulobomyia</i> sp1	●		
Hymenoptera	Eulophinae		●	
<i>Coleoptera</i>	Eumolpinae	●		
Hymenoptera	Euphorinae	●		
Diptera	<i>Eutrichota</i> sp1	●		
Diptera	<i>Fiebrigella</i>	●		
Hymenoptera	Formicidae	●	●	
Diptera	<i>Gaediopsis</i> sp1	●		
Diptera	<i>Gaediopsis</i> sp2	●		
Hymenoptera	<i>Galeopsomyia</i> sp1	●		
Diptera	<i>Ginglymia</i> sp1	●		
Diptera	Heleomyzidae	●		
Diptera	<i>Helina</i> sp1	●		
Diptera	<i>Helina</i> sp2		●	
Diptera	<i>Helina</i> sp3	●		
Diptera	<i>Helina</i> sp4	●		
Diptera	<i>Helina</i> sp5	●		

Diptera	<i>Helina</i> sp6	●			
Diptera	<i>Hemisturnia</i> sp1	●			
Diptera	<i>Hydrophoria</i> sp1	●			●
Diptera	<i>Hydrotaea</i> sp1	●			
Diptera	<i>Hydrotaea</i> sp2	●			
Diptera	<i>Hydrotaea</i> sp3	●			
Hymenoptera	<i>Hylaeus</i> sp1				●
Hymenoptera	Ichneumonidae	●			
Hymenoptera	Ichneumoninae	●			
Diptera	<i>Jurinella</i> sp1	●			
Diptera	<i>Lampremis</i> sp1	●			
Coleoptera	Lampyridae	●			
Hymenoptera	<i>Lasioglossum</i> sp1	●	●	●	
Hymenoptera	<i>Lasioglossum</i> sp1 1				●
Hymenoptera	<i>Lasioglossum</i> sp12		●		
Hymenoptera	<i>Lasioglossum</i> sp2	●		●	●
Hymenoptera	<i>Lasioglossum</i> sp4			●	
Hymenoptera	<i>Lasioglossum</i> sp5		●		
Hymenoptera	<i>Lasioglossum</i> sp7	●			
Hymenoptera	<i>Lasioglossum</i> sp8			●	●
Diptera	<i>Lasiomma</i> sp1	●			
Coleoptera	Latridiidae	●			
Diptera	Lauxaniidae	●	●		
Diptera	<i>Leskia</i> sp1	●			
Diptera	<i>Leskia</i> sp2	●			
Diptera	<i>Leskia</i> sp3	●			
Diptera	<i>Limnophora</i> sp1	●			
Diptera	<i>Limnophora</i> sp2	●			●
Diptera	<i>Limnophora</i> sp3	●			●

Diptera	<i>Lispoides</i> sp1	●			
Diptera	<i>Lispoides</i> sp2	●			
Diptera	Lonchaeidae	●			●
Diptera	<i>Lucilia</i> sp1	●			
Diptera	<i>Lucilia</i> sp2	●			
Hymenoptera	<i>Lyrcus</i>	●			
Diptera	<i>Malloewia</i>	●			
Diptera	<i>Malloewia</i> sp1	●	●	●	
Diptera	<i>Malloewia</i> sp2	●	●		
Hymenoptera	<i>Meliwillea bivea</i>	●			
Hymenoptera	Microgastrinae	●			
Diptera	<i>Micropotamia</i> sp1	●			
Diptera	<i>Milichella</i> sp1	●			
Hemiptera	Miridae	●	●		
Diptera	<i>Morellia</i>	●			
Diptera	Mycetophilidae	●			
Coleoptera	Mycteridae	●		●	●
Diptera	<i>Mydaea</i> sp1	●			●
Diptera	<i>Myiomima</i> sp1	●			
Diptera	<i>Myiomima</i> sp2	●			
Diptera	<i>Myiomima</i> sp3	●			
Diptera	<i>Myiopharus</i> sp1	●			
Diptera	<i>Myospila</i> sp1	●			
Diptera	<i>Mystacella</i> sp1	●			
Diptera	<i>Neobrachelia</i> sp1	●			
Hymenoptera	<i>Neocorynura</i> sp1				●
Hymenoptera	<i>Neocorynura</i> sp2				●
Hymenoptera	<i>Neocorynura</i> sp3	●			
Diptera	<i>Neodexiopsis</i> sp1	●			

Diptera	<i>Neodexiopsis sp10</i>	●			
Diptera	<i>Neodexiopsis sp11</i>	●			
Diptera	<i>Neodexiopsis sp2</i>	●			●
Diptera	<i>Neodexiopsis sp3</i>	●			
Diptera	<i>Neodexiopsis sp4</i>	●			
Diptera	<i>Neodexiopsis sp5</i>	●			
Diptera	<i>Neodexiopsis sp6</i>	●			
Diptera	<i>Neodexiopsis sp7</i>	●			
Diptera	<i>Neodexiopsis sp8</i>	●			●
Diptera	<i>Neodexiopsis sp9</i>	●			
Coleoptera	Nitidulidae	●			
Diptera	<i>Ocyptamus</i>	●	●		
Diptera	<i>Ocyptamus sp1</i>	●			
Diptera	<i>Ocyptamus sp2</i>	●			
Diptera	<i>Ocyptamus sp3</i>	●			
Diptera	<i>Ocyptamus sp4</i>	●			
Diptera	<i>Ocyptamus sp5</i>	●	●		
Diptera	<i>Ocyptamus sp6</i>	●			
Diptera	<i>Ocyptamus sp7</i>	●			
Diptera	<i>Ocyptamus sp8</i>				●
Diptera	<i>Olcella sp1</i>	●	●	●	●
Diptera	<i>Olcella sp2</i>	●			●
Diptera	<i>Onychaspidium sp1</i>	●			
Diptera	<i>Onychaspidium sp2</i>	●			
Diptera	<i>Onychaspidium sp3</i>	●			
Hymenoptera	Orthocentrinae	●			
Diptera	<i>Palpada erratica</i>	●			
Diptera	<i>Palpada familiaris</i>	●			
Diptera	<i>Palpada furcata</i>	●			

Diptera	<i>Palpada interrupta</i>			
Diptera	<i>Paradejeania</i> sp1			
Diptera	<i>Parepalpus</i> sp1			
Diptera	<i>Parepalpus</i> sp2			
Hymenoptera	<i>Partamona grandipennis</i>			
Diptera	<i>Peleteria</i> sp3			
Hymenoptera	<i>Pereirapis</i> sp1			
Diptera	Periscelididae			
Diptera	<i>Periscepsia</i> sp1			
Diptera	<i>Phaonia</i> sp1			
Diptera	<i>Phaonia</i> sp2			
Diptera	<i>Phasia</i> sp1			
Diptera	<i>Phasiophyto</i> sp1			
Diptera	Phoridae			
Diptera	<i>Phytomyptera</i> sp1			
Diptera	<i>Phytomyptera</i> sp2			
Hymenoptera	Pirenidae			
Diptera	<i>Platycheirus (Carposcalis)</i> sp1			
Hymenoptera	Platygastridae			
Diptera	<i>Platypalpus</i> sp1			
Diptera	<i>Platypalpus</i> sp2			
Hymenoptera	<i>Polybia aequatorialis</i>			
Diptera	<i>Porphyrochroa</i> sp1			
Hymenoptera	Proctotrupidae			
Diptera	<i>Protodejeania</i> sp1			
Diptera	<i>Pseudopomyza (Rhinopomyzella)</i> sp1			

Diptera	<i>Pseudosiphona</i> sp1	●			
Diptera	<i>Pseudosiphona</i> sp3	●			
Diptera	<i>Pseudosiphona</i> sp5	●			
Diptera	Psychodidae	●			
Hymenoptera	Pteromalinae	●		●	
Diptera	<i>Ptilodexia</i> sp1				●
Diptera	<i>Quichuana</i> sp2	●			
Diptera	<i>Quichuana</i> sp3	●			
Diptera	<i>Quichuana</i> sp4	●		●	
Diptera	<i>Rhamphomyia</i> sp1	●			
Diptera	<i>Rhamphomyia</i> sp2			●	
Diptera	<i>Rhamphomyia</i> sp3			●	
Hemiptera	Rhyparochromidae	●			
Diptera	<i>Salpingogaster</i> <i>nigra</i>	●			
Diptera	Sarcophagidae	●	●		
Diptera	<i>Sarcopromusca</i> sp1	●			
Diptera	<i>Scaptomyza</i> sp1		●		●
Diptera	<i>Scaptomyza</i> sp2	●			
Diptera	Scatopsidae	●		●	●
Diptera	Sciaridae	●	●	●	●
Hymenoptera	Scoliidae			●	
Diptera	<i>Scotiptera</i> sp1	●			
Diptera	Sepsidae	●			
Diptera	Simuliidae	●			
Diptera	<i>Siphona</i> sp3	●	●		●
Diptera	<i>Sphaerina</i> sp1	●			
Diptera	Sphaeroceridae	●			
Diptera	<i>Spilogona</i> sp1	●			
<i>Coleoptera</i>	Staphylinidae	●	●		

Diptera	<i>Stomoxys</i> sp1	●				
Diptera	Tachinidae	●				
Diptera	Tanypezidae	●				
Hymenoptera	Tenthredinidae	●				
Diptera	Tephritidae	●				
Hymenoptera	Tetrastichinae	●			●	
Diptera	<i>Thaumatomyia</i> sp1	●	●			
Hymenoptera	<i>Tiphia</i> sp1	●				
Hymenoptera	<i>Tiphia</i> sp2	●				
Hymenoptera	<i>Tiphia</i> sp3	●				
Hymenoptera	Tiphiidae	●	●			
Diptera	Tipulidae					
Hymenoptera	Torymidae	●				
Hymenoptera	<i>Torymus</i> sp1	●				
Diptera	<i>Toxomerus</i> sp1	●			●	
Diptera	<i>Toxomerus</i> sp3		●	●		●
Diptera	<i>Toxomerus</i> sp4	●				
Diptera	<i>Trafoia</i> sp1	●				
Diptera	<i>Trafoia</i> sp2	●				
Diptera	<i>Trichophora</i> sp2	●				
Diptera	<i>Tricimba</i> sp1		●			
Diptera	Ulidiidae	●				
Diptera	<i>Xanthoepalpus</i> sp1					●
Diptera	<i>Zygothrica</i> sp1	●				
Psocoptera				●		
Thysanoptera			●			
Trichoptera						●

Table S2. Hill-diversity estimates of insect visitors for fruit crops: *Persea americana*, *Malus domestica*, *Rubus* spp., and *Prunus domestica*, in San Gerardo de Dota, Costa Rica. The lower and upper limits correspond to 95% CI.

Crop	Hill-diversity	Observed	Estimated value	Lower limit	Upper limit
<i>Persea americana</i>	Species richness	224	399	300.85	497.02
<i>Malus domestica</i>	Species richness	38	98	19.17	177.37
<i>Prunus domestica</i>	Species richness	33	56	27.19	84.81
<i>Rubus</i> spp.	Species richness	38	78	26.92	128.78
<i>Persea americana</i>	Shannon-Hill	56.19	1914.37	52.06	60.33
<i>Malus domestica</i>	Shannon-Hill	8.84	633.04	6.68	11.01
<i>Prunus domestica</i>	Shannon-Hill	11.27	326.69	7.61	14.93
<i>Rubus</i> spp.	Shannon-Hill	15.16	479.76	12.32	18
<i>Persea americana</i>	Simpson-Hill	23.51	1914.37	21.20	25.82
<i>Malus domestica</i>	Simpson-Hill	3.42	633.04	2.78	4.05
<i>Prunus domestica</i>	Simpson-Hill	4.66	326.69	3.44	5.88
<i>Rubus</i> spp.	Simpson-Hill	9.78	479.76	8.61	10.95