

Table S3a: AMOVA design and results: for the 16S rDNA sequence marker under different settings (no groupings vs. 3 groups¹).

		No grouping			3 groups					
	Source of variation	d.f.	Sum of squares	Variance components	Percentage of variation	Source of variation	d.f.	Sum of squares	Variance components	Percentage of variation
Alignment 1	Among populations	6	101.43	2.66	80.80	Among groups	2	84.01	2.53	62.83
	Within populations	42	26.55	0.63	19.20	Among populations within groups	4	17.42	0.86	21.45
	Total	48	127.98	3.29		Within populations	42	26.55	0.63	15.72
	Fixation Index					Total	48	127.98	4.02	
	FST: 0.81**					Fixation Indices				
Alignment 2	Among populations	5	195.92	6.97	96.75	Among groups	2	176.46	6.70	77.28
	Within populations	33	7.72	0.23	2.25	Among populations within groups	3	19.47	1.73	20.02
	Total	38	203.64	7.20		Within populations	33	7.72	0.23	2.7
	Fixation Index					Total	38	203.64	8.66	
	FST: 0.97**					Fixation Indices				
Alignment 3	Among populations	6	741.52	6.53	93.53	Among groups	2	590.26	5.45	66.14
	Within populations	138	42.23	0.31	4.47	Among populations within groups	4	151.26	2.48	30.15

Total	144	783.75	6.84	Within populations	138	42.23	0.31	3.72
Fixation Index				Total	144	783.75	8.23	
FST: 0.96**								
Fixation Indices								
FSC: 0.89**								
FST: 0.96**								
FCT: 0.66**								

Table S3b: AMOVA design and results: for the CO1 sequence marker under different settings (no groupings vs. 3 groups¹).

		No grouping				3 groups				
	Source of variation	d.f.	Sum of squares	Variance components	Percentage of variation	Source of variation	d.f.	Sum of squares	Variance components	Percentage of variation
Alignment 2	Among populations	6	285.80	12.99	98.90	Among groups	2	248.94	15.51	85.42
	Within populations	22	3.17	0.14	1.10	Among populations within groups	4	36.86	2.50	13.78
	Total	28	288.97	13.14		Within populations	22	3.17	0.14	0.79
	Fixation Index					Total	28	288.97	18.16	
	FST: 0.99**					Fixation Indices				
Alignment 3	Among populations	6	1430.61	13.59	98.58	Among groups	2	1289.57	14.36	83.62
	Within populations	128	24.98	0.20	1.42	Among populations within groups	4	141.04	2.62	15.24
	Total	134	1455.59	13.79		Within populations	128	24.98	0.20	1.14
						Total	134	1455.59	17.18	

Fixation Index
FST: 0.99**

Fixation Indices
FSC: 0.93**
FST: 0.99**
FCT: 0.84*

* significance level = 0.05

¹ Groups (if applicable) Group 1: Biosphere Reserve Los Tuxtlas, Mexico (RBLT); Group 2: Cusuco National Park, Honduras (HN), Nicaragua (NI-b), Biological Research Station La Selva, Costa Rica (LS), Barro Colorado Island, Panama (BCI), Rio Canande Reserve, Ecuador (CAN); Group 3: Nicaragua (NI), Corcovado National Park 'Field Station Sirena', Costa Rica (CNP)
