Supplementary Tables

Table S1A. Sampling localities and sample sizes. The abbreviations for the collecting localities used in the main text are given in parenthesis.

Locality/Population	Sampling sites (SS) Coordinates		SS code	n (COI)	n (ITS-1)[a]	Current Forest region
	Longitude	*Latitude*				
Reserva Biológica Augusto Ruschi (01-AR)	-19.8781	-40.5385	AR.1	10	7 (7)	CAF
	-19.9123	-40.5362	AR.2	1	1 (0)	CAF
	-19.8875	-40.5362	AR.3	-	1 (1)	CAF
Parque Estadual do Desengano (04-ED)	-21.8768	-41.9228	ED.1	9	1 (1)	N-SAF
	-21.8735	-41.9142	ED.2	27	21 (20)	N-SAF
Parque Nacional da Serra dos Órgãos (07-SO)	-22.4558	-42.9963	SO.1	44	13 (10)	N-SAF
Parque Nacional da Serra da Bocaina (10-SB)	-22.7474	-44.6181	SB.1	6	6 (6)	N-SAF
	-22.7339	-44.6164	SB.2	2	1 (1)	N-SAF
	-22.73[b]	-44.61[b]	SB.3	2	2 (2)	N-SAF
Campos do Jordão (11-CJ)	-22.8039	-45.7768	CJ.1	0	0	C-SAF
Parque Estadual da Serra da Cantareira (13-EC)	-23.4300	-46.6333	EC.1	1	-	C-SAF
	-23.4592	-46.6373	EC.2	12	10 (10)	C-SAF
Estação Biológica de Boraceia (16-BB)	-23.6527	-45.8909	BB.1	25	22 (22)	C-SAF

Praia de Cambury (19-PC)	-23.7520	-45.6310	PC.1	20	11 (11)	C-SAF
Parque Estadual de Intervales (22-PI)	-24.2749	-48.4162	PI.1	22	14 (12)	C-SAF
Parque Nacional de Saint-Hilaire / Lange (25-SL)	-25.7614	-48.5933	SL.1	1	-	S-SAF
	-25.7644	-48.6227	SL.2	1	1 (0)	S-SAF
	-25.4622	-48.8201	SL.3	1	-	S-SAF
	-25.4722	-48.8294	SL.4	3	-	S-SAF
	-25.6911	-48.5905	SL.5	1	1 (0)	S-SAF
	-25.7644	-48.6227	SL.6	2	2 (2)	S-SAF
Parque Nacional da Serra de Itajaí (28-SI)	-27.0484	-49.0920	SI.1	14	11 (11)	S-SAF
	-26.9606	-49.0676	SI.2	1	-	S-SAF
Parque Estadual da Serra do Tabuleiro (31-ST)	-27.9568	-48.7735	ST.1	3	2 (2)	S-SAF
	-27.8417	-48.9254	ST.2	5	3 (3)	S-SAF
Floresta Nacional de São Francisco de Paula (34-FN)	-29.4287	-50.3884	FN.1	0	0	S-SAF
Total				213	130 (121)	

[a]Number of sequences used in the phylogenetic and in the population genetics (in parenthesis) analyses. [b] error < 5 km. NAF, North Atlantic Forest; CAF, Central Atlantic Forest; SAF, South Atlantic Forest (based on Cabanne *et al.* 2008); N-SAF, northern South Atlantic Forest; C-SAF, central South Atlantic Forest; S-SAF, southern South Atlantic Forest

Table S1B. *Cephaloflexa bergi* and outgroup specimens used in this study with their GenBank accession numbers. The abbreviations for the collecting localities used in the main text are given in parenthesis.

Collecting locality	Molecular code	SS code	N. MZUSP[a]	COI	ITS-1
Reserva Biológica. Augusto Ruschi / Espírito Santo (01-AR)	F2261[b]	AR.1	MZUSP PL 1106	KF971394	KF971575
	F2263[b]	AR.1	MZUSP PL 355	KF971395	-
	F2270[b]	AR.1	MZUSP PL 1107	KF971396	KF971576
	F2288[b]	AR.1	MZUSP PL 356	KF971397	-
	F2328[b]	AR.1	MZUSP PL 1110	KF971398	KF971577
	F2331	AR.1	MZUSP PL 1111	KF971399	KF971578
	F2345	AR.1	MZUSP PL 1112	-	KF971579
	F2380[b]	AR.1	MZUSP PL 357	KF971400	-
	F2395	AR.1	MZUSP PL 1114	KF971401	KF971580
	F2401	AR.1	MZUSP PL 1115	KF971402	KF971581
	F2408[b]	AR.1	MZUSP PL 1116	KF971403	-
	F2449[b]	AR.2	MZUSP PL 1117	KF971404	KF971582
	F2486[b]	AR.3	MZUSP PL 359	-	KF971586
Parque Estadual do Desengano / Rio de Janeiro (04-ED)	F2159[b]	ED.1	MZUSP PL 339	KF971383	-
	F2160	ED.1	MZUSP PL 340	KF971384	-
	F2161	ED.1	MZUSP PL 341	KF971385	-
	F2162	ED.1	MZUSP PL 342	KF971558	-
	F2163	ED.1	MZUSP PL 343	KF971386	KF971572
	F2164	ED.1	MZUSP PL 344	KF971387	-
	F2165[b]	ED.1	MZUSP PL 345	KF971388	-
	F2166	ED.1	MZUSP PL 346	KF971389	-
	F2186	ED.2	MZUSP PL 347	KF971390	KF971573
	F2203	ED.1	MZUSP PL 352	KF971391	-
	F2220	ED.2	MZUSP PL 353	KF971392	KF971574
	F2222	ED.2	MZUSP PL 354	KF971393	-
	F3987	ED.2	MZUSP PL 620	KF971451	KF971616
	F4003	ED.2	MZUSP PL 621	KF971452	KF971617
	F4009	ED.2	MZUSP PL 622	KF971453	KF971618
	F4010	ED.2	MZUSP PL 623	KF971454	-
	F4013	ED.2	MZUSP PL 624	KF971455	KF971619
	F4015	ED.2	MZUSP PL 625	KF971456	-
	F4021	ED.2	MZUSP PL 626	KF971457	KF971620
	F4023	ED.2	MZUSP PL 627	KF971458	KF971621
	F4025	ED.2	MZUSP PL 628	KF971459	KF971622
	F4028	ED.2	MZUSP PL 629	KF971460	KF971623
	F4033	ED.2	MZUSP PL 630	KF971461	KF971624
	F4034	ED.2	MZUSP PL 631	KF971462	KF971625
	F4037	ED.2	MZUSP PL 632	KF971463	KF971626
	F4040	ED.2	MZUSP PL 633	KF971464	KF971627
	F4046	ED.2	MZUSP PL 634	KF971465	-
	F4058	ED.2	MZUSP PL 635	KF971466	KF971628
	F4064	ED.2	MZUSP PL 637	KF971467	-
	F4066	ED.2	MZUSP PL 638	KF971468	-
	F4069	ED.2	MZUSP PL 639	KF971469	KF971629
	F4075	ED.2	MZUSP PL 640	KF971470	KF971630
	F4077	ED.2	MZUSP PL 641	KF971471	KF971631
	F4086	ED.2	MZUSP PL 642	KF971472	KF971632
	F4091	ED.2	MZUSP PL 643	KF971473	KF971633
	F4093	ED.2	MZUSP PL 644	KF971474	KF971634
Parque Nacional da Serra dos Órgãos / RJ (07-SO)	F2573	SO.1	MZUSP PL 360	KF971405	KF971587
	F2603[b]	SO.1	MZUSP PL 363	KF971406	-
	F4184	SO.1	MZUSP PL 854	KF971498	-
	F4191	SO.1	MZUSP PL 855	KF971499	-
	F4192	SO.1	MZUSP PL 856	KF971500	-
	F4193	SO.1	MZUSP PL 857	KF971501	-
	F4196	SO.1	MZUSP PL 858	KF971502	-

	F4198	SO.1	MZUSP PL 859	KF971503	-
	F4199	SO.1	MZUSP PL 860	KF971504	KF971655
	F4201	SO.1	MZUSP PL 861	KF971505	-
	F4204	SO.1	MZUSP PL 863	KF971506	-
	F4205	SO.1	MZUSP PL 864	KF971507	KF971656
	F4206	SO.1	MZUSP PL 865	KF971508	KF971657
	F4207	SO.1	MZUSP PL 866	KF971509	KF971658
	F4208	SO.1	MZUSP PL 867	KF971510	-
	F4209	SO.1	MZUSP PL 868	KF971511	KF971659
	F4211	SO.1	MZUSP PL 869	KF971512	-
	F4213	SO.1	MZUSP PL 870	KF971513	-
	F4214	SO.1	MZUSP PL 871	KF971514	-
	F4258	SO.1	MZUSP PL 897	KF971515	-
	F4260	SO.1	MZUSP PL 899	KF971516	-
	F4265	SO.1	MZUSP PL 900	KF971517	-
	F4267	SO.1	MZUSP PL 901	KF971518	KF971660
	F4274	SO.1	MZUSP PL 905	KF971519	KF971661
	F4286	SO.1	MZUSP PL 910	KF971520	KF971662
	F4290	SO.1	MZUSP PL 913	KF971521	KF971663
	F4298	SO.1	MZUSP PL 915	KF971522	-
	F4299	SO.1	MZUSP PL 916	KF971523	-
	F4300	SO.1	MZUSP PL 917	KF971524	-
	F4302	SO.1	MZUSP PL 919	KF971525	-
	F4303	SO.1	MZUSP PL 920	KF971526	KF971664
	F4304	SO.1	MZUSP PL 921	KF971527	-
	F4305	SO.1	MZUSP PL 922	KF971528	-
	F4306	SO.1	MZUSP PL 923	KF971529	-
	F4307	SO.1	MZUSP PL 924	KF971530	KF971665
	F4308	SO.1	MZUSP PL 925	KF971531	-
	F4309	SO.1	MZUSP PL 926	KF971532	
	F4315	SO.1	MZUSP PL 928	KF971533	-
	F4316	SO.1	MZUSP PL 929	KF971534	
	F4318	SO.1	MZUSP PL 930	KF971535	-
	F4320	SO.1	MZUSP PL 931	KF971536	-
	F4324	SO.1	MZUSP PL 932	KF971537	-
	F4325	SO.1	MZUSP PL 933	KF971538	-
	F4326	SO.1	MZUSP PL 934	KF971539	KF971666
Parque Nacional Serra da Bocaina / São Paulo	F2109[b]	SB.1	MZUSP PL 328	HQ026416	HQ026455
(10-SB)	F2794	SB.1	MZUSP PL 397	HQ026433	HQ026461
	F2800[b]	SB.3	MZUSP PL 398	HQ026434	HQ026462
	F2801[b]	SB.3	MZUSP PL 399	HQ026435	HQ026463
	F2804[b]	SB.1	MZUSP PL 400	HQ026436	HQ026464
	F2805[b]	SB.1	MZUSP PL 401	HQ026437	HQ026465
	F2811[b]	SB.2	MZUSP PL 402	HQ026438	HQ026466
	F2837[b]	SB.2	MZUSP PL 405	HQ026440	-
	F2845[b]	SB.1	MZUSP PL 407	HQ026423	HQ026470
	F2846[b]	SB.1	MZUSP PL 408	HQ026424	HQ026471
Parque Estadual Serra da Cantareira / São Paulo	F2935	EC.2	MZUSP PL 422	KF971413	KF971593
(13-EC)	F2986	EC.2	MZUSP PL 472	KF971414	KF971594
	F2995	EC.2	MZUSP PL 473	KF971415	KF971595
	F3008	EC.2	MZUSP PL 475	KF971416	KF971596
	F3061	EC.2	MZUSP PL 479	KF971417	KF971597
	F3066	EC.2	MZUSP PL 545	KF971418	KF971598
	F3522	EC.2	MZUSP PL 548	KF971437	KF971610
	F3524	EC.2	MZUSP PL 549	KF971438	-
	F3530	EC.2	MZUSP PL 550	KF971439	KF971611
	F3534[b]	EC.2	MZUSP PL 551	KF971440	KF971612
	F3546	EC.2	MZUSP PL 552	KF971441	-
	F3703	EC.1	MZUSP PL 567	KF971445	-
	F3742	EC.2	MZUSP PL 569	KF971446	KF971613
Estação Biológica da Boraceia / São Paulo (16-	F2138[b]	BB.1	MZUSP PL 337	HQ026419	HQ026458

BB)	F2149	BB.1	MZUSP PL 338	HQ026420	HQ026459
	F4103	BB.1	MZUSP PL 811	KF971475	KF971635
	F4110	BB.1	MZUSP PL 813	KF971476	KF971636
	F4111	BB.1	MZUSP PL 814	KF971477	KF971637
	F4118	BB.1	MZUSP PL 815	KF971478	KF971638
	F4120	BB.1	MZUSP PL 816	KF971479	KF971639
	F4121	BB.1	MZUSP PL 817	KF971480	-
	F4122	BB.1	MZUSP PL 818	KF971481	KF971640
	F4123	BB.1	MZUSP PL 819	KF971482	-
	F4124	BB.1	MZUSP PL 820	KF971483	-
	F4126	BB.1	MZUSP PL 822	KF971484	KF971641
	F4127	BB.1	MZUSP PL 823	KF971485	KF971642
	F4147	BB.1	MZUSP PL 830	KF971486	KF971643
	F4148	BB.1	MZUSP PL 831	KF971487	KF971644
	F4149	BB.1	MZUSP PL 832	KF971488	KF971645
	F4150	BB.1	MZUSP PL 833	KF971489	KF971646
	F4164	BB.1	MZUSP PL 846	KF971490	KF971647
	F4165	BB.1	MZUSP PL 847	KF971491	KF971648
	F4166	BB.1	MZUSP PL 848	KF971492	KF971649
	F4167	BB.1	MZUSP PL 849	KF971493	KF971650
	F4168	BB.1	MZUSP PL 850	KF971494	KF971651
	F4174	BB.1	MZUSP PL 851	KF971495	KF971652
	F4175	BB.1	MZUSP PL 852	KF971496	KF971653
	F4176	BB.1	MZUSP PL 853	KF971497	KF971654
Cambury / São Paulo (19-PC)	F1034	PC.1	MZUSP PL 303	KC608238	-
	F1035	PC.1	MZUSP PL 304	KF971364	KF971559
	F1038	PC.1	MZUSP PL 305	KC608240	-
	F1045	PC.1	MZUSP PL 306	KF971365	-
	F1048	PC.1	MZUSP PL 307	KF971366	KF971560
	F4337	PC.1	MZUSP PL 939	KF971540	KF971667
	F4338[b]	PC.1	MZUSP PL 940	KF971541	KF971668
	F4339	PC.1	MZUSP PL 941	KF971542	KF971669
	F4350[b]	PC.1	MZUSP PL 951	KF971543	KF971670
	F4352	PC.1	MZUSP PL 952	KF971544	-
	F4355	PC.1	MZUSP PL 953	KF971545	KF971671
	F4356	PC.1	MZUSP PL 954	KF971546	-
	F4378	PC.1	MZUSP PL 974	KF971547	-
	F4380	PC.1	MZUSP PL 975	KF971548	-
	F4401	PC.1	MZUSP PL 991	KF971549	KF971672
	F4403	PC.1	MZUSP PL 992	KF971550	KF971673
	F4404	PC.1	MZUSP PL 993	KF971551	-
	F4407	PC.1	MZUSP PL 994	KF971552	KF971674
	F4408	PC.1	MZUSP PL 995	KF971553	-
	F4410	PC.1	MZUSP PL 996	KF971554	KF971675
Parque Estadual Intervales / São Paulo (22-PI)	F2644[b]	PI.1	MZUSP PL 370	KF971407	KF971588
	F2697	PI.1	MZUSP PL 377	KF971408	KF971589
	F2698	PI.1	MZUSP PL 378	KF971409	-
	F2702	PI.1	MZUSP PL 379	KF971410	KF971590
	F2769	PI.1	MZUSP PL 389	KF971411	KF971591
	F2785	PI.1	MZUSP PL 392	KF971412	KF971592
	F3081	PI.1	MZUSP PL 480	HQ026426	-
	F3082	PI.1	MZUSP PL 481	KF971419	-
	F3088	PI.1	MZUSP PL 483	KF971420	-
	F3089	PI.1	MZUSP PL 484	KF971421	KF971599
	F3091	PI.1	MZUSP PL 485	KF971422	KF971600
	F3095	PI.1	MZUSP PL 486	KF971423	KF971601
	F3097	PI.1	MZUSP PL 487	KF971424	KF971602
	F3100	PI.1	MZUSP PL 489	KF971425	-
	F3101	PI.1	MZUSP PL 490	KF971426	KF971603
	F3104	PI.1	MZUSP PL 491	KF971427	-
	F3105	PI.1	MZUSP PL 492	KF971428	-

	F3109[b]	PI.1	MZUSP PL 494	HQ026427	HQ026474
	F3111	PI.1	MZUSP PL 496	KF971429	KF971604
	F3146	PI.1	MZUSP PL 500	KF971430	KF971605
	F3798	PI.1	MZUSP PL 615	KF971447	KF971614
	F3805	PI.1	MZUSP PL 616	KF971448	-
Parque Nacional Saint Hilaire / Paraná (25-SL)	F1606	SL.1	MZUSP PL 321	KF971379	-
	F1610[b]	SL.6	MZUSP PL 322	KF971380	KF971569
	F1616[b]	SL.6	MZUSP PL 323	KF971381	KF971570
	F1628[b]	SL.2	MZUSP PL 324	KF971382	KF971571
	F1664[b]	SL.3	MZUSP PL 326	HQ026401	-
	F3583	SL.4	MZUSP PL 558	KF971442	-
	F3584	SL.4	MZUSP PL559	KF971443	-
	F3585	SL.4	MZUSP PL 560	KF971444	-
	F3611[b]	SL.5	MZUSP PL 565	HQ026431	HQ026478
Parque Nacional Serra de Itajaí / Santa Catarina	F1528	SI.1	MZUSP PL 308	KF971367	-
(28-SI)	F1532	SI.1	MZUSP PL 309	KF971368	KF971561
	F1555	SI.2	MZUSP PL 310	KF971369	-
	F1570	SI.1	MZUSP PL 311	KF971370	-
	F1572[b]	SI.1	MZUSP PL 312	KF971371	KF971562
	F1576	SI.1	MZUSP PL 313	-	KF971563
	F1580	SI.1	MZUSP PL 314	KF971372	KF971564
	F1582	SI.1	MZUSP PL 315	KF971373	KF971565
	F1583	SI.1	MZUSP PL 316	KF971374	-
	F1584	SI.1	MZUSP PL 317	KF971375	KF971566
	F1585[b]	SI.1	MZUSP PL 318	KF971376	-
	F1596	SI.1	MZUSP PL 319	KF971377	KF971567
	F1598	SI.1	MZUSP PL 320	KF971378	KF971568
	F4610	SI.1	MZUSP PL 1103	KF971555	KF971676
	F4635	SI.1	MZUSP PL 1104	KF971556	KF971677
	F4636	SI.1	MZUSP PL 1105	KF971557	KF971678
Parque Estadual Serra do Tabuleiro / Santa	F3230	ST.2	MZUSP PL 501	KF971431	-
Catarina (31-ST)	F3236[b]	ST.2	MZUSP PL 502	KF971432	KF971606
	F3257	ST.2	MZUSP PL 504	KF971433	KF971607
	F3295	ST.2	MZUSP PL 506	KF971434	KF971608
	F3306	ST.1	MZUSP PL 507	KF971435	KF971609
	F3313[b]	ST.2	MZUSP PL 510	KF971436	-
	F3906	ST.1	MZUSP PL 617	KF971449	KF971615
	F3913	ST.1	MZUSP PL 618	KF971450	-
Outgroup					
Choeradoplana banga					
(13-EC)	F3011[b]		MZUSP PL 477	KC608301	-
Choeradoplana iheringi					
(31-ST)	F3315		MZUSP PL 511	HQ542891	-
(34-FN)	F3400[b]	FN.1	MZUSP PL 521	HQ026429	-
Cephaloflexa sp.					
(01-AR)	F2473	AR.2	MZUSP PL 1118	-	KF971583
	F2474	AR.2	MZUSP PL 1119	-	KF971584
	F2477	AR.2	MZUSP PL 1120	-	KF971585

[a] Vouchers are deposited in the Museu de Zoologia da Universidade de São Paulo (MZUSP)

[b] Individuals whose internal anatomy has been analyzed morphologically

? GenBank accession number not available yet

– Sequence not obtained

Table S2A. Results of the neutrality tests for the COI gene

Population	Neutrality test						
		Tajima's *D*		Fu's F_S		Ramos-Onsins & Rozas R_2	
	n	***D***	**95% CI**	F_S	**95% CI**	R_2	**95% CI**
01-AR	11	1.464	(-1.733 , 1.631)	4.797	(-1.950 , 4.848)	0.245**	(0.097 , 0.219)
04-ED	36	1.346	(-1.691 , 1.817)	2.558	(-5.213 , 5.928)	0.165	(0.061 , 0.186)
07-SO	44	-0.758	(-1.700 , 1.920)	-3.28	(-5.197 , 5.943)	0.087	(0.055 , 0.180)
10-SB	10	-0.993	(-1.739 , 0.167)	1.842	(-3.713 , 4.738)	0.205	(0.104 , 0.235)
13-EC	13	0.792	(-1.685 , 1.872)	0.514	(-2.443 , 3.733)	0.191	(0.111 , 0.266)
16-BB	25	-1.159	(-1.686 , 1.941)	-3.176*	(-2.550 , 3.960)	0.082	(0.077 , 0.242)
19-PC	20	2.167*	(-1.746 , 1.638)	3.964	(-4.504 , 5.190)	0.228**	(0.080 , 0.191)
22-PI	22	-0.686	(-1.678 , 1.917)	-1.367	(-2.756 , 4.043)	0.103	(0.084 , 0.242)
25-SL	9	0.549	(-1.669 , 1.612)	3.536	(-1.580, 5.057)	0.207	(0.101 , 0.235)
28-SI	15	-2.283**	(-1.772 , 1.697)	-0.157	(-4.548 , 5.229)	0.232**	(0.089 , 0.209)
31-ST	8	2.464**	(-1.605 , 1.577)	6.335*	(-1.494 , 5.080)	0.279**	(0.106 , 0.251)

*P< 0.05 **P< 0.01(two-tailed test)

Population	Linkage Disequilibrium				
	n	Z_{nS}	**95% CI**	**Wall's *Q***	**95% CI**
01-AR	11	0.577	(0.168 , 0.649)	0.489	(0.102 , 0.597)
04-ED	36	0.358	(0.046 , 0.502)	0.417	(0 , 0.518)
07-SO	44	0.067	(0.038 , 0.489)	0.210	(0 , 0.5)
10-SB	10	0.481	(0.142 , 0.717)	0.467	(0 , 0.692)
13-EC	13	0.425	(0.011 , 1)	0.500	(0 , 1)
16-BB	25	0.013	(0.003 , 1)	0	(0 , 1)
19-PC	20	0.711**	(0.113 , 0.543)	0.595*	(0.063 , 0.482)
22-PI	22	0.166	(0.004 , 1)	0	(0 , 1)
25-SL	9	0.476	(0.187 , 0.695)	0.330	(0.115 , 0.641)
28-SI	15	0.885**	(0.116 , 0.625)	0.877**	(0 , 0.580)
31-ST	8	0.913**	(0.201 , 0.726)	0.851**	(0.119 , 0.679)

*P< 0.05 **P< 0.01(two-tailed test)

Table S2B. Results of the neutrality tests for the ITS-1 gene

Population	Neutrality test						
		Tajima's *D*		Fu's F_S		Ramos-Onsins&Rozas R_2	
	n	***D***	**95% CI**	F_S	**95% CI**	R_2	**95% CI**
01-AR	8	-1.829**	(-1.627 , 1.634)	6.094*	(-2.531 , 4.727)	0.315**	(0.106 , 0.254)
04-ED	21	-1.587	(-1.653 , 1.900)	-4.204**	(-2.608 , 4.020)	0.068**	(0.090 , 0.248)
07-SO	10	-1.116	(-1.668 , 1.830)	-2.082	(-2.481 , 3.779)	0.112*	(0.123 , 0.300)
10-SB	9	-	-	-	-	-	-
13-EC	10	-1.562	(-1.562 , 1.641)	1.225	(-1.430 , 2.429)	0.300	(0.146 , 0.300)
16-BB	22	-1.162	(-1.747 , 1.797)	-0.957	(-5.262 , 5.604)	0.208*	(0.075 , 0.192)
19-PC	11	1.826*	(-1.721 , 1.617)	9.334**	(-2.907 , 5.050)	0.243*	(0.097 , 0.219)
22-PI	12	-1.865*	(-1.747 , 1.816)	-0.849	(-2.897 , 4.278)	0.156	(0.108 , 0.265)
25-SL	2	-	-	-	-	-	-
28-SI	11	-2.181**	(-1.778 , 1.713)	9.321**	(-3.679 , 4.652)	0.287**	(0.101 , 0.232)
31-ST	5	1.567	(-1.203 , 1.583)	3.843	(-0.365 , 5.095)	0.283	(0.102 , 0.348)

*P< 0.05 **P< 0.01(two-tailed test)

Population	LinkageDisequilibrium				
	n	Z_{nS}	**95% CI**	**Wall's *Q***	**95% CI**
01-AR	8	0.927**	(0.190 , 0.747)	0.910**	(0.087 , 0.72)
04-ED	21	0.120	(0.004 , 1)	0	(0 , 1)
07-SO	10	0.188	(0.012 , 1)	0.286	(0 , 1)
10-SB	9	-	-	-	-
13-EC	10	1**	(0.012 , 1)	1**	(0 , 1)
16-BB	22	-	-	-	-
19-PC	11	0.850**	(0.157 , 0.657)	0.898**	(0.08 , 0.612)
22-PI	12	0.306	(0.018 , 0.88)	0.818	(0 , 1)
25-SL	2	-	-	-	-
28-SI	11	1**	(0.121 , 0.724)	1**	(0 , 0.706)
31-ST	5	0.945**	(0.281 , 0.867)	0.933**	(0.182 , 0.851)

*P< 0.05 **P< 0.01(two-tailed test)

Table S3A. D_{XY} values between populations for the COI dataset

01-AR										
04-ED	0.10390									
07-SO	0.09775	0.06699								
10-SB	0.09910	0.07293	0.06840							
13-EC	0.09127	0.09938	0.07811	0.08659						
16-BB	0.10096	0.09828	0.08653	0.10060	0.06512					
19-PC	0.10331	0.08933	0.07441	0.08044	0.07688	0.06104				
22-PI	0.09480	0.08802	0.07924	0.08472	0.03460	0.06456	0.07656			
25-SL	0.10273	0.10077	0.08573	0.09447	0.07908	0.07265	0.08364	0.07367		
28-SI	0.10445	0.10163	0.09125	0.08895	0.09435	0.08351	0.08496	0.09502	0.06446	
31-ST	0.10465	0.10704	0.09083	0.08812	0.09119	0.09314	0.09342	0.09420	0.08458	0.08201
	01-AR	04-ED	07-SO	10-SB	13-EC	16-BB	19-PC	22-PI	25-SL	28-SI

D_a values between populations for the COI dataset

01-AR										
04-ED	0.06887									
07-SO	0.06298	0.06222								
10-SB	0.06113	0.06495	0.06069							
13-EC	0.05779	0.09590	0.07488	0.08016						
16-BB	0.06785	0.09517	0.08368	0.09455	0.06357					
19-PC	0.04773	0.06375	0.04909	0.05191	0.05284	0.03738				
22-PI	0.06151	0.08473	0.07620	0.07848	0.03286	0.06319	0.05271			
25-SL	0.04372	0.07176	0.05698	0.06252	0.05161	0.04557	0.03407	0.04640		
28-SI	0.06617	0.09335	0.08323	0.07773	0.08762	0.07715	0.05613	0.08848	0.03220	
31-ST	0.04926	0.08165	0.06569	0.05979	0.06735	0.06967	0.04747	0.07054	0.03521	0.05337
	01-AR	04-ED	07-SO	10-SB	13-EC	16-BB	19-PC	22-PI	25-SL	28-SI

Table S3B. D_{XY} values between populations for the ITS-1 dataset

01-AR										
04-ED	0.14229									
07-SO	0.11147	0.01067								
10-SB	0.14523	0.02961	0.02477							
13-EC	0.11647	0.08133	0.06187	0.09928						
16-BB	0.13243	0.11321	0.07787	0.12683	0.06952					
19-PC	0.14375	0.06566	0.05493	0.07159	0.09187	0.08632				
22-PI	0.11199	0.06517	0.05746	0.08568	0.01042	0.04717	0.07576			
25-SL	0.11138	0.07424	0.08064	0.08567	0.05710	0.06464	0.07919	0.05908		
28-SI	0.12505	0.10202	0.08995	0.10732	0.09505	0.11890	0.11101	0.08519	0.04098	
31-ST	0.15064	0.11912	0.10560	0.12159	0.11786	0.14746	0.13687	0.10914	0.08390	0.09721
	01-AR	04-ED	07-SO	10-SB	13-EC	16-BB	19-PC	22-PI	25-SL	28-SI

D_a values between populations for the ITS-1 dataset

01-AR										
04-ED	0.10657									
07-SO	0.08326	0.00858								
10-SB	0.11168	0.02835	0.02405							
13-EC	0.08337	0.07905	0.06116	0.09855						
16-BB	0.10011	0.11149	0.07716	0.12683	0.06905					
19-PC	0.08103	0.02943	0.0304	0.03582	0.05560	0.05301				
22-PI	0.07862	0.06228	0.05611	0.08332	0.00810	0.04484	0.04639			
25-SL	0.05357	0.03930	0.04709	0.05270	0.02341	0.03141	0.02661	0.02522		
28-SI	0.08741	0.09247	0.08241	0.09956	0.08670	0.11174	0.06976	0.07666	0.00490	
31-ST	0.08328	0.07646	0.06897	0.08189	0.07552	0.10608	0.06227	0.06585	0.02162	0.05160
	01-AR	04-ED	07-SO	10-SB	13-EC	16-BB	19-PC	22-PI	25-SL	28-SI

Table S4. S_{nn} values for the COI dataset

Cb01										
Cb04	1 (0***)									
Cb07	1 (0***)	1 (0***)								
Cb10	1 (0***)	1 (0***)	1 (0***)							
Cb13	1 (0***)	1 (0***)	1 (0***)	1 (0***)						
Cb16	1 (0***)	1 (0***)	1 (0***)	1 (0***)	1 (0***)					
Cb19	1 (0***)	1 (0***)	1 (0***)	1 (0***)	1 (0***)	1 (0***)				
Cb22	1 (0***)	1 (0***)	1 (0***)	1 (0***)	1 (0***)	1 (0***)	1 (0***)			
Cb25	1 (0***)	1 (0***)	1 (0***)	1 (0***)	1 (0***)	1 (0***)	1 (0***)	1 (0***)		
Cb28	1 (0***)	1 (0***)	1 (0***)	1 (0***)	1 (0***)	1 (0***)	1 (0***)	1 (0***)	0,91667 (0,0002***)	
Cb31	1 (0,0002***)	1 (0***)	1 (0***)	1 (0,0001***)	1 (0***)	1 (0***)	1 (0***)	1 (0***)	1 (0,0002***)	0,95652 (0***)
	Cb01	Cb04	Cb07	Cb10	Cb13	Cb16	Cb19	Cb22	Cb25	Cb28

S_{nn} values for the ITS-1 dataset

Cb01										
Cb04	0,96552 (0***)									
Cb07	0,94444 (0***)	1 (0***)								
Cb10	0,94118 (0***)	1 (0***)	1 (0***)							
Cb13	0,94444 (0***)	1 (0***)	1 (0***)	1 (0,0002***)						
Cb16	0,96667 (0***)	1 (0***)	1 (0***)	1 (0***)	1 (0***)					
Cb19	0,94737 (0,0001***)	1 (0***)	1 (0***)	1 (0***)	1 (0***)	1 (0***)				
Cb22	0,95000 (0***)	1 (0***)	1 (0***)	1 (0***)	1 (0***)	1 (0***)	1 (0***)			
Cb25	0,90000 (0,0457*)	1 (0,0098**)	1 (0,0160*)	1 (0,0198*)	1 (0,0165*)	1 (0,0038**)	1 (0,0125*)	1 (0,0093**)		
Cb28	0,94737 (0***)	1 (0***)	1 (0***)	1 (0***)	1 (0,0001***)	1 (0***)	1 (0***)	0,82343 (0***)	1 (0,0123*)	
Cb31	0,92308 (0,0025**)	1 (0***)	1 (0,0003***)	1 (0,0006***)	1 (0,0004***)	1 (0***)	1 (0,0001***)	1 (0,0001***)	1 (0,0960 ns)	0,93750 (0,0005***)
	Cb01	Cb04	Cb07	Cb10	Cb13	Cb16	Cb19	Cb22	Cb25	Cb28

*** P< 0.001

Table S5. N_{st} values for the COI dataset

01-AR										
04-ED	0.66626									
07-SO	0.64612	0.93168								
10-SB	0.62066	0.89487	0.89122							
13-EC	0.63281	0.96719	0.96078	0.92929						
16-BB	0.67427	0.97036	0.96891	0.94326	0.97707					
19-PC	0.46780	0.71697	0.65999	0.64870	0.68762	0.61326				
22-PI	0.64918	0.96465	0.96362	0.92972	0.95059	0.97965	0.68866			
25-SL	0.43210	0.71792	0.66758	0.66795	0.65397	0.62621	0.41053	0.62982		
28-SI	0.63740	0.92180	0.91495	0.87805	0.93079	0.92541	0.66302	0.93316	0.49977	
31-ST	0.47707	0.76905	0.72718	0.68349	0.74168	0.75129	0.51358	0.75237	0.41925	0.65297
	01-AR	04-ED	07-SO	10-SB	13-EC	16-BB	19-PC	22-PI	25-SL	28-SI

N_{st} values for the ITS-1 dataset

01-AR										
04-ED	0.74508									
07-SO	0.74448	0.80500								
10-SB	0.76633	0.95816	0.97157							
13-EC	0.70811	0.97333	0.98904	0.99318						
16-BB	0.75257	0.98589	0.99132	1	0.99345					
19-PC	0.56608	0.43181	0.54374	0.48650	0.59249	0.61336				
22-PI	0.69604	0.95729	0.97732	0.97395	0.77792	0.95174	0.60792			
25-SL	0.48550	0.52841	0.58525	0.61675	0.40371	0.48441	0.33945	0.42386		
28-SI	0.69579	0.90843	0.91751	0.92886	0.91329	0.94158	0.62518	0.90229	0.11798	
31-ST	0.55899	0.6396	0.65087	0.67150	0.63652	0.72261	0.45856	0.59825	0.25782	0.52415
	01-AR	04-ED	07-SO	10-SB	13-EC	16-BB	19-PC	22-PI	25-SL	28-SI

Table S6. Isolation-by-distance results comparing D_{XY} values and natural logarithms of geographical distances

Localites	COI			ITS-1		
	Z	***r***	***P*-value (*r*<= 0)**	***Z***	***r***	***P*-value (*r*<=0)**
All localities	12.7441	0.5274	0.0003**	13.4694	0.4260	0.0025**

***P*< 0.01

Table S7. ABC results of the serial founder events models

Model	*MD*	*PP*	*P*-value
Model 1	1.93×10^{-6}	0.427	0.023
Model 2	1.38×10^{-6}	0.306	0.019
Model 3	3.69×10^{-7}	0.143	0.011
Model 4	8.38×10^{-7}	0.202	0.019

MD, marginal density under the GLM

PP, posterior probability

P-value, Likelihood of the observed data under the GLM relative to that of the retained simulations (using 5 PLS components)

Analysis based on 8 populations