

SUPPLEMENTARY MATERIAL No.1-3

Mitochondrial DNA analysis suggests a Chibchan migration into Colombia

Supplement 1. Matrix of Fst P values.

Comparisons of pairs of population samples

Matrix of Fst P values

	Pasto	Butaregua	Chimila	Guambiano	Paez	Huitoto	Murui Muinane	Zenu	Yuco	Tukano	Guayabero	Ingano	Guane	Guahibo	Embera	Coreguaje	Kogui	Arsario	Wayuu	Ijka	
Butaregua	0.02703 ±0.0139																				
Chimila	0.00000 ±0.0000	0.00000 ±0.0000																			
Guambiano	0.00000 ±0.0000	0.41441 ±0.0493	0.00000 ±0.0000																		
Paez	0.04505 ±0.0152	0.00000 ±0.0000	0.09009 ±0.0303	0.00000 ±0.0000																	
Huitoto	0.42342 ±0.0576	0.54955 ±0.0613	0.00000 ±0.0000	0.27027 ±0.0192	0.00901 ±0.0091																
Murui Muinane	0.22523 ±0.0365	0.13514 ±0.0311	0.00000 ±0.0000	0.01802 ±0.0121	0.04505 ±0.0152	0.43243 ±0.0327															
Zenu	0.03604 ±0.0148	0.43243 ±0.0539	0.00000 ±0.0000	0.08108 ±0.0370	0.00000 ±0.0000	0.18018 ±0.0359	0.04505 ±0.0203														
Yuco	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00901 ±0.0091	0.00000 ±0.0000													
Tukano	0.16216 ±0.0379	0.54054 ±0.0272	0.00000 ±0.0000	0.39640 ±0.0493	0.00000 ±0.0000	0.94595 ±0.0205	0.49550 ±0.0610	0.19820 ±0.0618	0.00000 ±0.0000												
Guayabero	0.00000 ±0.0000	0.00000 ±0.0000	0.00901 ±0.0091	0.00000 ±0.0000	0.02703 ±0.0139	0.00000 ±0.0000	0.10811 ±0.0326	0.00000 ±0.0000	0.54054 ±0.0332	0.00000 ±0.0000											
Ingano	0.54054 ±0.0470	0.22523 ±0.0412	0.00000 ±0.0000	0.00901 ±0.0091	0.11712 ±0.0309	0.41441 ±0.0305	0.33333 ±0.0389	0.22523 ±0.0000	0.00000 ±0.0000	0.32432 ±0.0473	0.02703 ±0.0194										
Guane	0.03604 ±0.0148	0.00901 ±0.0091	0.07207 ±0.0227	0.00000 ±0.0000	0.35135 ±0.0370	0.02703 ±0.0194	0.42342 ±0.0408	0.01802 ±0.0121	0.31532 ±0.0434	0.04505 ±0.0203	0.59459 ±0.0454	0.22523 ±0.0434									
Guahibo	0.00000 ±0.0000	0.00000 ±0.0000	0.00910 ±0.0286	0.00000 ±0.0000	0.00000 ±0.0182	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000
Embera	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.36036 ±0.0429	0.00000 ±0.0000	0.05405 ±0.0148	0.00000 ±0.0000	0.53153 ±0.0370	0.03604 ±0.0148	0.56757 ±0.0508	0.00000 ±0.0000							
Coreguaje	0.00000 ±0.0000	0.40541 ±0.0389	0.00000 ±0.0000	0.54955 ±0.0438	0.00000 ±0.0000	0.10811 ±0.0227	0.01802 ±0.0121	0.16216 ±0.0353	0.00000 ±0.0000	0.26126 ±0.0550	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000
Kogui	0.00901 ±0.0091	0.00901 ±0.0091	0.00000 ±0.0000	0.00000 ±0.0000	0.02703 ±0.0194	0.05405 ±0.0201	0.00901 ±0.0091	0.16216 ±0.0379	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.29730 ±0.0333	0.03604 ±0.0148	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000
Arsario	0.00000 ±0.0000	0.15315 ±0.0333	0.00000 ±0.0000	0.54955 ±0.0139	0.00000 ±0.0000	0.07207 ±0.0182	0.00901 ±0.0091	0.16216 ±0.0030	0.00000 ±0.0000	0.00901 ±0.0091	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000
Wayuu	0.01802 ±0.0121	0.33333 ±0.0273	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.34234 ±0.0556	0.44144 ±0.0438	0.18919 ±0.0370	0.00000 ±0.0000	0.23423 ±0.0653	0.00000 ±0.0000	0.00000 ±0.0000	0.42342 ±0.0471	0.18018 ±0.0429	0.00000 ±0.0000	0.01802 ±0.0121	0.00901 ±0.0091	0.00901 ±0.0091	0.02703 ±0.0139		
Ijka	0.00000 ±0.0000	0.00000 ±0.0000	0.06306 ±0.0237	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.62162 ±0.0417	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000
Somalie	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000	0.00000 ±0.0000

Significance Level=0.0500, Number of permutations : 110

Significance level [f]: The level at which the test of differentiation is considered significant for the output table. If the P-value is smaller than the Significance level, then the two populations are considered as significantly different.

The P-value of the test is the proportion of permutations leading to a FST value larger or equal to the observed one. The P-values are also given in matrix form.

P 0.0000≈0