

Table S3. Analysis of Molecular Variance (AMOVA)

Formula: $\text{dna_dist3} \sim \text{groups_full3} / \text{pops_full3} \cdot \text{nperm} = 1000$

AMOVA

Source	SSD	MSD	df
Among groups (groups_full3)	0.507670	0.253835	2
Among pops within groups (pops_full3)	0.010640	0.002660	4
Within populations (Error)	0.233811	0.001670	140
Total	0.752121	0.005152	146

Variance components

Source	σ^2 (sigma ²)	p-value
Among groups (groups_full3)	0.008064	0.1918
Among pops within groups (pops_full3)	0.000046	0.1409
Within populations (Error)	0.001670	—

Phi-statistics

Statistic	Value
Φ_{CT} — Among groups / Total (groups_full3 in GLOBAL)	0.82451
Φ_{ST} — Among pops / Total (pops_full3 in GLOBAL)	0.82924
Φ_{SC} — Among pops within groups (pops_full3 in groups_full3)	0.02695

Variance coefficients

a	b	c
21.40278	19.79989	31.15646