

**S1 Fig. Mantel test for Isolation-by-Distance.** Mantel test for Matrix Correspondence was performed using GenAlEx to test the occurrence of a positive correlation ( $R_{xy}>0$ ) between the genetic  $PHI_{PT}$  matrix and geographic distances, so called the Isolation-by-distance (IBD) hypothesis. The genetic and geographic distance were not correlated ( $R_{xy}=-0.41$   $p=0.17$ ).

