

Description of Additional Supplementary Files

File name: Supplementary Data 1

Description: Sample information for modern and ancient individuals included in this study.

File name: Supplementary Data 2

Description: Bootstrap results from fastGLOBETROTTER estimating admixture times in AA-speaking populations, corresponding to Fig. 4c.

File name: Supplementary Data 3

Description: Estimated admixture time for SA and EA ancestries in Austroasiatic-speaking populations.

File name: Supplementary Data 4

Description: qpAdm modeling results for ancient SEA populations under the one-way model.

File name: Supplementary Data 5

Description: qpAdm modeling results for ancient SEA populations and modern AA speaking populations under the two-way admixture model.

File name: Supplementary Data 6

Description: qpAdm modeling results using the two-way rotating strategy for ancient SEA populations and modern AA speaking populations.

File name: Supplementary Data 7

Description: qpAdm modeling results for ancient SEA populations and modern AA speaking populations under the three-way admixture model.

File name: Supplementary Data 8

Description: qpAdm modeling results using the three-way rotating strategy for ancient SEA populations and modern AA speaking populations.

File name: Supplementary Data 9

Description: qpAdm modeling results for ancient SEA populations under multiple-way admixture models.

File name: Supplementary Data 10

Description: Best-fitting qpAdm modeling results for ancient SEA populations, corresponding to Figs. 5b and 5c.

File name: Supplementary Data 11

Description: qpAdm modeling results for ancient SEA populations including India_Harappan in the outgroup set.

File name: Supplementary Data 12

Description: qpAdm modeling results for the IALongLongRak ancient population, without Onge in the outgroup set.

File name: Supplementary Data 13

Description: qpWave analysis results comparing modern AA speaking populations and ancient SEA populations.