

Description of Additional Supplementary Files

File name: Supplementary Data 1

Description: Summary table for each sequenced individual describing sampling site, results of the radiocarbon dating, genome sequencing summary statistics, and contamination estimates

File name: Supplementary Data 2

Description: Information on sequencing libraries per individual

File name: Supplementary Data 3

Description: Description and SNP number information for ancient individuals (new and previously published) analyzed in this study

File name: Supplementary Data 4

Description: Mitochondrial mutation info for individuals sequenced in this study

File name: Supplementary Data 5

Description: Y chromosome variants for individuals sequenced in this study

File name: Supplementary Data 6

Description: qpAdm results for a set of European Mesolithic cline individuals

File name: Supplementary Data 7

Description: Results for WHG genetic and geographic distance regression analysis

File name: Supplementary Data 8

Description: qpAdm results for a ukr

File name: Supplementary Data 9

Description: f4 admixture test for ukr samples

File name: Supplementary Data 10

Description: qpAdm results for a ukr104

File name: Supplementary Data 11

Description: f4 and f4-ratio test for Neolithic Romanian and Polish samples

File name: Supplementary Data 12

Description: Kinship results for Ukrainian, Romanian and Polish samples

File name: Supplementary Data 13

Description: Y-chromosome mutation description for the Yasinovatka family samples

File name: Supplementary Data 14

Description: Paired individuals in conditional nucleotide diversity calculation

File name: Supplementary Data 15

Description: Extended info on radiocarbon datings and stable isotope values from human bone collagen for the Ukrainian samples, used in Supplementary Note 4

File name: Supplementary Data 16

Description: Summary of interpreted reservoir effect for the investigated individuals with or without $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ signatures.

File name: Supplementary Data 17

Description: Extended information on the radiocarbon dates and isotopic measurements for Romanian individuals.