

## **Description of Additional Supplementary Files**

File Name: Supplementary Data 1

Description: List of SNPs defining novel sub-haplogroups of the J1a2b Chr Y haplogroup. Sub-haplogroups were defined based on clusters with size > 10 generated by applying  $5 \times 10^{-4}$  genetic distance threshold on Maximum Likelihood tree with 90% bootstrapping.