

The earliest domestic cat on the Silk Road

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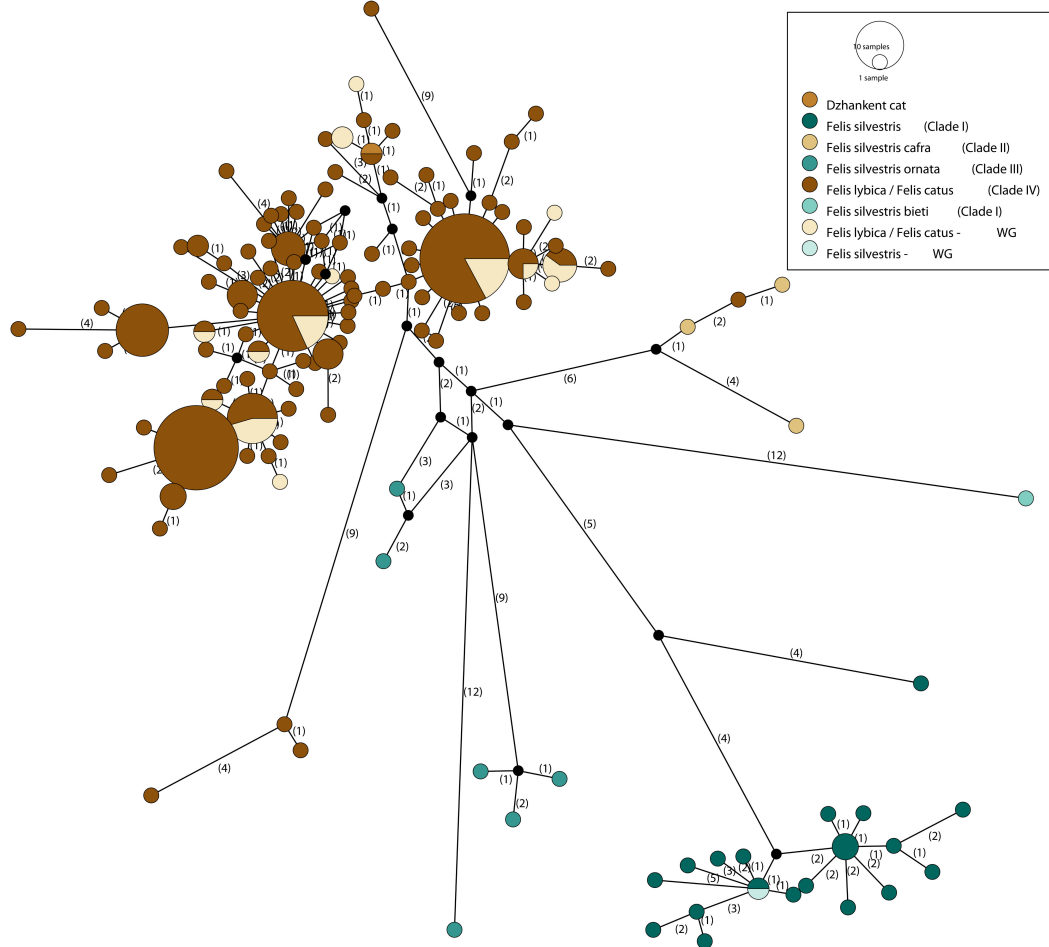
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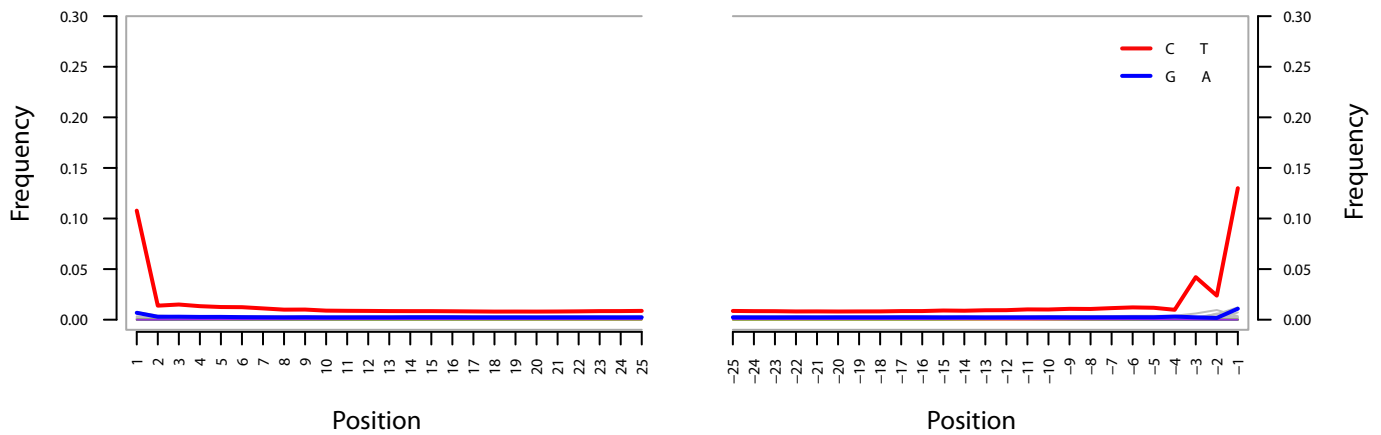
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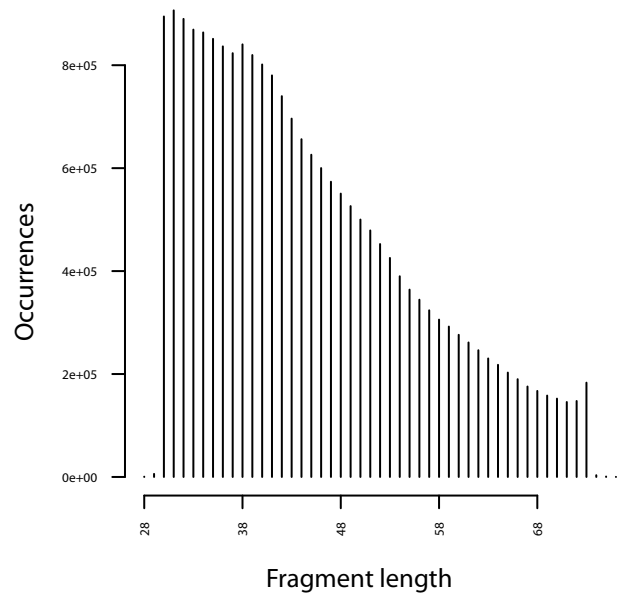


Supplementary Figure 1: Median-joining mitochondrial haplotype network including the Dzhankent cat, individuals used for nuclear analysis (Supplementary Table 3) and 233 additional published sequences (Supplementary Table 4), totalling to 264 taxa.

A) Nucleotide misincorporation patterns



B) Fragment length distribution



Supplementary Figure 2: Assessment of ancient DNA authenticity. Fragment misincorporation patterns (A) estimated by mapping the Dzhankent data to the reference genome assembly of the domestic cat. The left and right panels show the frequencies of C to T (red) and G to A (blue) misincorporations for the the 5' and 3' read ends, respectively, with nucleotide position numbered sequentially on the x axes. The increase in C to T substitutions around the terminal nucleotides are consistent with cytosine deamination and support the authenticity of the data. The distribution of fragment lengths (B) indicate advanced DNA fragmentation with a median length of 42 bp, consistent with expectations for ancient DNA further supporting the authenticity of the data.