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The original version of this Article contained an error in the Results subsection “Hybridization with Arctic gyrfalcons facilitated sakers’ adaptation to cold extremes”, which incorrectly read ‘To do this, we applied an ABBA-BABA model³⁷, and found five outstanding genomic islands (>200 Kb) on the five chromosomes (Chr 1, 3, 5, 8 and 16) exhibiting adaptive introgression signatures (top 1% D = 0.73, top 1% $f_d = 0.70$) (Fig. 2b; Supplementary Fig. 10) which were much longer than the expected length of fragments (26.6 Kb) from incomplete lineage sorting (ILS; “Methods”).’ The correct version states ‘26.0 Kb’ in place of ‘26.6 Kb’.

The original version of this Article contained an error in the Methods subsection “De novo assembly of the saker falcon genome”, which incorrectly read ‘We assembled a chromosome-level reference genome of an adult female saker falcon (aQTP saker rescued by Xining Wildlife Park) (2n = 56) using a multi-platform sequencing strategy (PacBio, Illumina, Bionano)’. The correct version states ‘2n = 52’ in place of ‘2n = 56’.

The original version of this Article contained an error in the Methods subsection “Estimation of adaptively introgressed signals and discrimination from ILS”, which incorrectly read ‘In our case, we set the parameters according to the *fastsimcoal2* result: $t = 3181$ generations (21 ka), $m = 0.23$ (the minimum introgression rate in *Frappe* result), $r = 2E-08$ (assuming that each of the 26 chromosomes experiences on average one crossover per generation²³). When the P was larger than 0.05, the fragments shorter than 26.6 Kb were considered as those that may be influenced by ILS. Accordingly, fragments that longer than 26.6 Kb were considered from introgression.’ The correct version states ‘ $m = 0.213$ ’ in place of ‘ $m = 0.23$ ’, ‘fragments shorter than 26.0 Kb’ in place of ‘fragments shorter than 26.6 Kb’, and ‘fragments longer than 26.0 Kb’ in place of ‘fragments that longer than 26.6 Kb’.

These have been corrected in both the PDF and HTML versions of the Article.

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