

1                   Supporting Information/Appendix: Literature Cited for Table 1

- 2
- 3 Alberto, F. J., Boyer, F., Orozco-terWengel, P., Streeter, I., Servin, B., de Villemereuil, P.,  
4 Benjelloun, B., Librado, P., Biscarini, F., Colli, L., Barbato, M., Zamani, W., Alberti, A.,  
5 Engelen, S., Stella, A., Joost, S., Ajmone-Marsan, P., Negrini, R., Orlando, L.,  
6 ...Pompanon, F. (2018). Convergent genomic signatures of domestication in sheep and  
7 goats. *Nature Communications*, 9(1), 813. <https://doi.org/10.1038/s41467-018-03206-y>
- 8
- 9 Almathen, F., Charruau, P., Mohandesan, E., Mwacharo, J. M., Orozco-terWengel, P., Pitt, D.,  
10 Abdussamad, A. M., Uerpmann, M., Uerpmann, H.-P., De Cupere, B., Magee, P.,  
11 Alnaqeeb, M. A., Salim, B., Raziq, A., Dessie, T., Abdelhadi, O. M., Banabazi, M. H., Al-  
12 Eknah, M., Walzer, ...Burger, P. A. (2016). Ancient and modern DNA reveal dynamics of  
13 domestication and cross-continental dispersal of the dromedary. *Proceedings of the  
14 National Academy of Sciences*, 113(24), 6707. <https://doi.org/10.1073/pnas.1519508113>
- 15
- 16 Barbato, M., Hailer, F., Orozco-terWengel, P., Kijas, J., Mereu, P., Cabras, P., Mazza, R., Pirastru,  
17 M., & Bruford, M. W. (2017). Genomic signatures of adaptive introgression from European  
18 mouflon into domestic sheep. *Scientific reports*, 7(1), 7623. <https://doi.org/10.1038/s41598-017-07382-7>
- 19
- 20 Bergström, A., Frantz, L., Schmidt, R., Ersmark, E., Lebrasseur, O., Girdland-Flink, L., Lin, A. T.,  
21 Storå, J., Sjögren, K. G., Anthony, D., Antipina, E., Amiri, S., Bar-Oz, G., Bazaliiskii, V. I.,  
22 Bulatović, J., Brown, D., Carmagnini, A., Davy, T., Fedorov, S.,...Skoglund, P. (2020).  
23 Origins and genetic legacy of prehistoric dogs. *Science*, 370(6516), 557-564.  
24 <https://doi.org/10.1126/science.aba9572>
- 25
- 26 Beugin, M.-P., Salvador, O., Leblanc, G., Queney, G., Natoli, E., & Pontier, D. (2020).  
27 Hybridization between *Felis silvestris silvestris* and *Felis silvestris catus* in two contrasted  
28 environments in France. *Ecology and Evolution*, 10(1), 263-276.  
29 <https://doi.org/10.1002/ece3.5892>
- 30
- 31 Bleyhl, B., Arakelyan, M., Askerov, E., Bluhm, H., Gavashelishvili, A., Ghasabian, M., Ghoddousi,  
32 A., Heidelberg, A., Khorozyan, I., Malkhasyan, A., Manvelyan, K., Masoud, M., Moqanaki,  
33 E. M., Radeloff, V. C., Soofi, M., Weinberg, P., Zazanashvili, N., & Kuemmerle, T. (2019).  
34 Assessing niche overlap between domestic and threatened wild sheep to identify  
35 conservation priority areas. *Diversity and Distributions*, 25(1), 129-141.  
36 <https://doi.org/https://doi.org/10.1111/ddi.12839>
- 37
- 38 Bustamante, A. V., Zambelli, A., De Lamo, D. A., von Thungen, J., & Vidal-Rioja, L. (2002).  
39 Genetic variability of guanaco and llama populations in Argentina. *Small Ruminant  
40 Research*, 44(2), 97-101. [https://doi.org/https://doi.org/10.1016/S0921-4488\(02\)00036-6](https://doi.org/https://doi.org/10.1016/S0921-4488(02)00036-6)
- 41
- 42 Carreck, N. (2008). Are honey bees (*Apis mellifera* L.) native to the British Isles? *Journal of  
43 Apicultural Research*, 318-322. <https://doi.org/10.3896/IBRA.1.47.4.15>
- 44
- 45 Chen, M., Sun, Y., Yang, C., Zeng, G., Li, Z., & Zhang, J. (2018). The road to wild yak protection in  
46 China. *Science*, 360(6391), 866. <https://doi.org/10.1126/science.aat6749>
- 47
- 48 Choudhury, A. (2002). Distribution and conservation of the Gaur *Bos gaurus* in the Indian  
49 Subcontinent. *Mammal Review*, 32(3), 199-226.  
50 <https://doi.org/https://doi.org/10.1046/j.1365-2907.2002.00107.x>
- 51
- 52 Ciani, E., Mastrangelo, S., Da Silva, A., Marroni, F., Ferenčaković, M., Ajmone-Marsan, P., Baird,  
53 H., Barbato, M., Colli, L., Delvento, C., Dovenski, T., Gorjanc, G., Hall, S. J. G., Hoda, A.,  
54 Li, M.-H., Marković, B., McEwan, J., Moradi, M. H., Ruiz-Larrañaga,...Lenstra, J. A. (2020).
- 55

- 56 On the origin of European sheep as revealed by the diversity of the Balkan breeds and by  
57 optimizing population-genetic analysis tools. *Genetics, selection, evolution : GSE*, 52(1),  
58 25-25. <https://doi.org/10.1186/s12711-020-00545-7>
- 59
- 60 Corey, J. A. B., Isagi, Y., Kaneko, S., David, M. J. S. B., & Brook, B. W. (2006). Conservation  
61 Value of Non-Native Banteng in Northern Australia. *Conservation Biology*, 20(4), 1306-  
62 1311. <http://www.jstor.org/stable/3879198>
- 63
- 64 Croose, L., Duckworth, J. W., Ruette, S., Skumatov, D., Kolesnikov, V., & Saveljev, A. (2018). A  
65 review of the status of the Western polecat *Mustela putorius*: A neglected and declining  
66 species? *Mammalia*, 82. <https://doi.org/10.1515/mammalia-2017-0092>
- 67
- 68 Decker, J. E., McKay, S. D., Rolf, M. M., Kim, J., Molina Alcalá, A., Sonstegard, T. S., Hanotte, O.,  
69 Götherström, A., Seabury, C. M., Praharani, L., Babar, M. E., Correia de Almeida Regitano,  
70 L., Yildiz, M. A., Heaton, M. P., Liu, W.-S., Lei, C.-Z., Reecy, J. M., Saif-Ur-Rehman, M.,  
71 Schnabel, R. D., & Taylor, J. F. (2014). Worldwide Patterns of Ancestry, Divergence, and  
72 Admixture in Domesticated Cattle. *PLOS Genetics*, 10(3), e1004254.  
73 <https://doi.org/10.1371/journal.pgen.1004254>
- 74
- 75 Dong, Y., Zhang, X., Xie, M., Arefnezhad, B., Wang, Z., Wang, W., Feng, S., Huang, G., Guan, R.,  
76 Shen, W., Bunch, R., McCulloch, R., Li, Q., Li, B., Zhang, G., Xu, X., Kijas, J. W., Salekdeh,  
77 G. H., Wang, W., & Jiang, Y. (2015). Reference genome of wild goat (*capra aegagrus*) and  
78 sequencing of goat breeds provide insight into genic basis of goat domestication. *BMC  
79 Genomics*, 16(1), 431. <https://doi.org/10.1186/s12864-015-1606-1>
- 80
- 81 Eydivandi, S., Sahana, G., Momen, M., Moradi, M. H., & Schönherz, A. A. (2020). Genetic diversity  
82 in Iranian indigenous sheep vis-à-vis selected exogenous sheep breeds and wild mouflon.  
83 *Animal Genetics*, 51(5), 772-787. <https://doi.org/https://doi.org/10.1111/age.12985>
- 84
- 85 Fitak, R. R., Mohandesan, E., Corander, J., Yadamsuren, A., Chuluunbat, B., Abdelhadi, O.,  
86 Raziq, A., Nagy, P., Walzer, C., Faye, B., & Burger, P. A. (2020). Genomic signatures of  
87 domestication in Old World camels. *Communications Biology*, 3(1), 316.  
88 <https://doi.org/10.1038/s42003-020-1039-5>
- 89
- 90 Flamand, J., Vankan, D., Gairhe, K., Duong, H., & Barker, J. (2003). Genetic identification of wild  
91 Asian water buffalo in Nepal. *Animal Conservation*, 6, 265-270.  
92 <https://doi.org/10.1017/S1367943003003329>
- 93
- 94 Freedman, A. H., Gronau, I., Schweizer, R. M., Ortega-Del Vecchio, D., Han, E., Silva, P. M.,  
95 Galavotti, M., Fan, Z., Marx, P., Lorente-Galdos, B., Beale, H., Ramirez, O., Hormozdiari,  
96 F., Alkan, C., Vilà, C., Squire, K., Geffen, E., Kusak, J., Boyko, ... Novembre, J. (2014).  
97 Genome Sequencing Highlights the Dynamic Early History of Dogs. *PLOS Genetics*, 10(1),  
98 e1004016. <https://doi.org/10.1371/journal.pgen.1004016>
- 99
- 100 Gaunitz, C., Fages, A., Hanghøj, K., Albrechtsen, A., Khan, N., Schubert, M., Seguin-Orlando, A.,  
101 Owens, I. J., Felkel, S., Bignon-Lau, O., de Barros Damgaard, P., Mittnik, A., Mohaseb, A.  
102 F., Davoudi, H., Alquraishi, S., Alfarhan, A. H., Al-Rasheid, K. A. S., Crubézy, E., Benecke,  
103 ... Orlando, L. (2018). Ancient genomes revisit the ancestry of domestic and Przewalski's  
104 horses. *Science*, 360(6384), 111-114. <https://doi.org/10.1126/science.aao3297>
- 105
- 106 Giuffra, E., Kijas, J. M., Amarger, V., Carlborg, O., Jeon, J. T., & Andersson, L. (2000). The origin  
107 of the domestic pig: independent domestication and subsequent introgression. *Genetics*,  
108 154(4), 1785-1791. <https://pubmed.ncbi.nlm.nih.gov/10747069>
- 109
- 110 Glover, K. A., Wennevik, V., Hindar, K., Skaala, Ø., Fiske, P., Solberg, M. F., Diserud, O. H.,  
111 Svåsand, T., Karlsson, S., Andersen, L. B., & Grefsrud, E. S. (2020). The future looks like  
112 the past: Introgression of domesticated Atlantic salmon escapees in a risk assessment

- 113 framework. *Fish and Fisheries*, 21(6), 1077-1091.  
114 <https://doi.org/https://doi.org/10.1111/faf.12478>
- 115
- 116 González, B. A., Orozco-Terwengel, P., von Borries, R., Johnson, W. E., Franklin, W. L., & Marín,  
117 J. C. (2014). Maintenance of genetic diversity in an introduced island population of  
118 guanacos after seven decades and two severe demographic bottlenecks: implications for  
119 camelid conservation. *PloS one*, 9(3), e91714-e91714.  
120 <https://doi.org/10.1371/journal.pone.0091714>
- 121
- 122 Heikkinen, M. E., Ruokonen, M., White, T. A., Alexander, M. M., Gündüz, İ., Dobney, K. M., Aspi,  
123 J., Searle, J. B., & Pyhäjärvi, T. (2020). Long-Term Reciprocal Gene Flow in Wild and  
124 Domestic Geese Reveals Complex Domestication History. *G3 Genes|Genomes|Genetics*,  
125 10(9), 3061-3070. <https://doi.org/10.1534/g3.120.400886>
- 126
- 127 Iacolina, L., Pertoldi, C., Amills, M., Kusza, S., Megens, H.-J., Bâlteanu, V. A., Bakan, J., Cubric-  
128 Curik, V., Oja, R., Saarma, U., Scandura, M., Šprem, N., & Stronen, A. V. (2018). Hotspots  
129 of recent hybridization between pigs and wild boars in Europe. *Scientific reports*, 8(1),  
130 17372-17372. <https://doi.org/10.1038/s41598-018-35865-8>
- 131
- 132 Johnston, R., Causey, D., & Johnson, S. (1988). European Populations of the Rock Dove Columba  
livia and Genotypic Extinction. *American Midland Naturalist*, 120, 1-10.  
133 <https://doi.org/10.2307/2425881>
- 134
- 135 Johnston, R. F., & Janiga, M. (1995). *Feral pigeons*. Oxford University Press.
- 136
- 137
- 138 Kaczensky, P., Adiya, Y., von Wehrden, H., Mijiddorj, B., Walzer, C., Güthlin, D., Enkhbileg, D., &  
139 Reading, R. P. (2014). Space and habitat use by wild Bactrian camels in the Transaltai  
140 Gobi of southern Mongolia. *Biological Conservation*, 169(100), 311-318.  
141 <https://doi.org/10.1016/j.biocon.2013.11.033>
- 142
- 143 Kavar, T., & Dovč, P. (2008). Domestication of the horse: Genetic relationships between domestic  
144 and wild horses. *Livestock Science*, 116(1), 1-14.  
145 <https://doi.org/https://doi.org/10.1016/j.livsci.2008.03.002>
- 146
- 147 Kierstein, G., Vallinoto, M., Silva, A., Schneider, M. P., Iannuzzi, L., & Brenig, B. (2004). Analysis  
148 of mitochondrial D-loop region casts new light on domestic water buffalo (*Bubalus bubalis*)  
149 phylogeny. *Molecular Phylogenetics and Evolution*, 30(2), 308-324.  
150 [https://doi.org/10.1016/s1055-7903\(03\)00221-5](https://doi.org/10.1016/s1055-7903(03)00221-5)
- 151
- 152 Kuemmerle, T., Bluhm, H., Ghoddousi, A., Arakelyan, M., Askerov, E., Bleyhl, B., Ghasabian, M.,  
153 Gavashelishvili, A., Heidelberg, A., Malkhasyan, A., Manvelyan, K., Soofi, M., Yarovenko,  
154 Y., Weinberg, P., & Zazanashvili, N. (2020). Identifying priority areas for restoring mountain  
155 ungulates in the Caucasus ecoregion [<https://doi.org/10.1111/csp2.276>]. *Conservation*  
156 *Science and Practice*, 2(11), e276. <https://doi.org/https://doi.org/10.1111/csp2.276>
- 157
- 158 Lawal, R. A., Martin, S. H., Vanmechelen, K., Vereijken, A., Silva, P., Al-Atiyat, R. M., Aljumaah, R.  
159 S., Mwacharo, J. M., Wu, D.-D., Zhang, Y.-P., Hocking, P. M., Smith, J., Wragg, D., &  
160 Hanotte, O. (2020). The wild species genome ancestry of domestic chickens. *BMC Biology*,  
161 18(1), 13. <https://doi.org/10.1186/s12915-020-0738-1>
- 162
- 163 Librado, P., Fages, A., Gaunitz, C., Leonardi, M., Wagner, S., Khan, N., Hanghøj, K., Alquraishi,  
164 S., Alfarhan, A., Al-Rasheid, K., Der Sarkissian, C., Schubert, M., & Orlando, L. (2016). The  
165 Evolutionary Origin and Genetic Makeup of Domestic Horses. *Genetics*, 204, 423-434.  
166 <https://doi.org/10.1534/genetics.116.194860>
- 167
- 168 Lord, E., Collins, C., deFrance, S., LeFebvre, M. J., Pigiére, F., Eeckhout, P., Erauw, C.,  
169 Fitzpatrick, S. M., Healy, P. F., Martínez-Polanco, M. F., Garcia, J. L., Ramos Roca, E.,

- 170 Delgado, M., Sánchez Urriago, A., Peña Léon, G. A., Toyne, J. M., Dahlstedt, A., Moore, K.  
171 M., Laguer Diaz, C., Zori, C., & Matisoo-Smith, E. (2020). Ancient DNA of Guinea Pigs  
172 (*Cavia* spp.) Indicates a Probable New Center of Domestication and Pathways of Global  
173 Distribution. *Scientific reports*, 10(1), 8901. <https://doi.org/10.1038/s41598-020-65784-6>
- 174
- 175 Marín, J. C., Casey, C. S., Kadwell, M., Yaya, K., Hoces, D., Olazabal, J., Rosadio, R., Rodriguez,  
176 J., Spotorno, A., Bruford, M. W., & Wheeler, J. C. (2007). Mitochondrial phylogeography  
177 and demographic history of the Vicuña: implications for conservation. *Heredity*, 99(1), 70-  
178 80. <https://doi.org/10.1038/sj.hdy.6800966>
- 179
- 180 McGinnity, P., Prodöhl, P., Ferguson, A., Hynes, R., Maoiléidigh, N. ó., Baker, N., Cotter, D.,  
181 O'Hea, B., Cooke, D., Rogan, G., Taggart, J., & Cross, T. (2003). Fitness reduction and  
182 potential extinction of wild populations of Atlantic salmon, *Salmo salar*, as a result of  
183 interactions with escaped farm salmon. *Proceedings of the Royal Society of London. Series*  
184 *B: Biological Sciences*, 270(1532), 2443-2450. <https://doi.org/10.1098/rspb.2003.2520>
- 185
- 186 Mona, S., Catalano, G., Lari, M., Larson, G., Boscato, P., Casoli, A., Sineo, L., Di Patti, C.,  
187 Pecchioli, E., Caramelli, D., & Bertorelle, G. (2010). Population dynamic of the extinct  
188 European aurochs: genetic evidence of a north-south differentiation pattern and no  
189 evidence of post-glacial expansion. *BMC Evolutionary Biology*, 10(1), 83.  
190 <https://doi.org/10.1186/1471-2148-10-83>
- 191
- 192 Muñoz, I., Henriques, D., Johnston, J. S., Chávez-Galarza, J., Kryger, P., & Pinto, M. A. (2015).  
193 Reduced SNP Panels for Genetic Identification and Introgression Analysis in the Dark  
194 Honey Bee (*Apis mellifera mellifera*). *PloS one*, 10(4), e0124365.  
195 <https://doi.org/10.1371/journal.pone.0124365>
- 196
- 197 Nguyen, T. T., Genini, S., Bui, L. C., Voegeli, P., Stranzinger, G., Renard, J.-P., Maillard, J.-C., &  
198 Nguyen, B. X. (2007). Genomic conservation of cattle microsatellite loci in wild gaur (*Bos*  
199 *gaurus*) and current genetic status of this species in Vietnam. *BMC Genetics*, 8(1), 77.  
200 <https://doi.org/10.1186/1471-2156-8-77>
- 201
- 202 Orlando, L. (2016). Back to the roots and routes of dromedary domestication. *Proceedings of the*  
203 *National Academy of Sciences*, 113(24), 6588. <https://doi.org/10.1073/pnas.1606340113>
- 204
- 205 Perri, A. R., Feuerborn, T. R., Frantz, L. A. F., Larson, G., Malhi, R. S., Meltzer, D. J., & Witt, K. E.  
206 (2021). Dog domestication and the dual dispersal of people and dogs into the Americas.  
207 *Proceedings of the National Academy of Sciences*, 118(6), e2010083118.  
208 <https://doi.org/10.1073/pnas.2010083118>
- 209
- 210 Quilodrán, C. S., Nussberger, B., Montoya-Burgos, J. I., & Currat, M. (2019). Hybridization and  
211 introgression during density-dependent range expansion: European wildcats as a case  
212 study. *Evolution*, 73(4), 750-761. <https://doi.org/10.1111/evo.13704>
- 213
- 214 Senn, H. V., Ghazali, M., Kaden, J., Barclay, D., Harrower, B., Campbell, R. D., Macdonald, D. W.,  
215 & Kitchener, A. C. (2019). Distinguishing the victim from the threat: SNP-based methods  
216 reveal the extent of introgressive hybridization between wildcats and domestic cats in  
217 Scotland and inform future in situ and ex situ management options for species restoration.  
218 *Evolutionary Applications*, 12(3), 399-414. <https://doi.org/10.1111/eva.12720>
- 219
- 220 Solberg, M. F., Robertsen, G., Sundt-Hansen, L. E., Hindar, K., & Glover, K. A. (2020).  
221 Domestication leads to increased predation susceptibility. *Scientific reports*, 10(1), 1929.  
222 <https://doi.org/10.1038/s41598-020-58661-9>
- 223
- 224 Sun, W., Yu, H., Shen, Y., Banno, Y., Xiang, Z., & Zhang, Z. (2012). Phylogeny and evolutionary  
225 history of the silkworm. *Science China Life Sciences*, 55(6), 483-496.  
226 <https://doi.org/10.1007/s11427-012-4334-7>

- 227  
228 Tesfai, R. T., Owen-Smith, N., Parrini, F., & Moehlman, P. D. (2019). Viability of the critically  
229 endangered African wild ass (*Equus africanus*) population on Messir Plateau (Eritrea).  
230 *Journal of Mammalogy*, 100(1), 185-191. <https://doi.org/10.1093/jmammal/gyy164>
- 231  
232 Thakur, M., Fernandes, M., Sathyakumar, S., Singh, S. K., Vijh, R. K., Han, J., Wu, D.-D., &  
233 Zhang, Y.-P. (2018). Understanding the cryptic introgression and mixed ancestry of Red  
234 Junglefowl in India. *PLoS one*, 13(10), e0204351-e0204351.  
235 <https://doi.org/10.1371/journal.pone.0204351>
- 236  
237 Tihelka, E., Cai, C., Pisani, D., & Donoghue, P. C. J. (2020). Mitochondrial genomes illuminate the  
238 evolutionary history of the Western honey bee (*Apis mellifera*). *Scientific reports*, 10(1),  
239 14515. <https://doi.org/10.1038/s41598-020-71393-0>
- 240  
241 Upadhyay, M. R., Chen, W., Lenstra, J. A., Goderie, C. R. J., MacHugh, D. E., Park, S. D. E.,  
242 Magee, D. A., Matassino, D., Ciani, F., Megens, H. J., van Arendonk, J. A. M., Groenen, M.  
243 A. M., Marsan, P. A., Balteanu, V., Dunner, S., Garcia, J. F., Ginja, C., Kantanen, J.,  
244 European Cattle Genetic Diversity, C., & Crooijmans, R. (2017). Genetic origin, admixture  
245 and population history of aurochs (*Bos primigenius*) and primitive European cattle.  
246 *Heredity*, 118(2), 169-176. <https://doi.org/10.1038/hdy.2016.79>
- 247  
248 Utzeri, V. J., Bertolini, F., Ribani, A., Schiavo, G., Dall'Olio, S., & Fontanesi, L. (2016). The  
249 albinism of the feral Asinara white donkeys (*Equus asinus*) is determined by a missense  
250 mutation in a highly conserved position of the tyrosinase (TYR) gene deduced protein.  
251 *Animal Genetics*, 47(1), 120-124. <https://doi.org/https://doi.org/10.1111/age.12386>
- 252  
253 Wakild, E. (2020). Saving the Vicuña: The Political, Biophysical, and Cultural History of Wild  
254 Animal Conservation in Peru, 1964–2000. *The American Historical Review*, 125(1), 54-88.  
255 <https://doi.org/10.1093/ahr/rhz939>
- 256  
257 Wang, S., Nan, Z., & Prete, D. (2016). Protecting wild yak (*Bos mutus*) species and preventing its  
258 hybrid in China. *Journal of Arid Land*, 8(5), 811-814. <https://doi.org/10.1007/s40333-016-0051-6>
- 258  
259  
260 Wu, M. Y., Low, G. W., Forcina, G., van Grouw, H., Lee, B. P. Y. H., Oh, R. R. Y., & Rheindt, F. E.  
261 (2020). Historic and modern genomes unveil a domestic introgression gradient in a wild red  
262 junglefowl population. *Evolutionary Applications*, 13(9), 2300-2315.  
263 <https://doi.org/https://doi.org/10.1111/eva.13023>
- 264  
265 Xiang, H., Liu, X., Li, M., Zhu, Y. n., Wang, L., Cui, Y., Liu, L., Fang, G., Qian, H., Xu, A., Wang,  
266 W., & Zhan, S. (2018). The evolutionary road from wild moth to domestic silkworm. *Nature  
Ecology & Evolution*, 2, 1268-1279. <https://doi.org/10.1038/s41559-018-0593-4>
- 267  
268  
269 Zhang, Y., Colli, L., & Barker, J. (2020). Asian water buffalo: domestication, history and genetics.  
270 *Animal Genetics*, 51, 177-191. <https://doi.org/10.1111/age.12911>
- 271  
272  
273
- 274