

Table S5. Genetic distances between the studied populations based on F_{ST} and Jost's D indices.

| Populations | KALM_ H | KRGZ_ H | KZKH_ H | KALM_ M | KRGZ_ M | KZWH_ M | HRFD_ M | MONG_ M |
|-------------|------------|------------|------------|------------|------------|------------|------------|------------|
| KALM_H | - | 0 | -0.020 | 0.018 | 0.010 | 0.048 | 0.088 | 0.003 |
| KRGZ_H | 0 | - | 0.024 | 0.020 | 0.025 | 0.082 | 0.090 | 0 |
| KZKH_H | -0.013 | 0.008 | - | 0.043 | 0.014 | 0.096 | 0.154 | 0.019 |
| KALM_M | 0.017 | 0.023 | 0.004 | - | 0.028 | 0.062 | 0.085 | 0.026 |
| KRGZ_M | 0.005 | 0.047 | -0.004 | 0.041 | - | 0.069 | 0.118 | 0.033 |
| KZWH_M | 0.089 | 0.175 | 0.079 | 0.120 | 0.095 | - | 0.049 | 0.052 |
| HRFD_M | 0.144 | 0.124 | 0.155 | 0.176 | 0.163 | 0.079 | - | 0.067 |
| MONG_M | 0.004 | 0 | 0.015 | 0.039 | 0.053 | 0.098 | 0.122 | - |

Notes: museum populations: KALM_H – Kalmyk, KRGZ_H – Kyrgyz, KZKH_H – Kazakh, modern populations: KALM_M – Kalmyk, KRGZ_M – Kyrgyz, KZWH_M – Kazakh White-Headed, HRFD_M – Hereford, MONG_M – Mongolian cattle; F_{ST} values are presented above the diagonal; Jost's D values are presented below the diagonal.