

## SUPPLEMENT 1

to the article "Genetic diversity of horses of the Sargarinsko-Alexeevskaya and Irmen cultures of the Ob-Irtysh region of Western Siberia and their genetic proximity to modern horses of indigenous breeds"

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### Information about the studied horse samples

Sample number	Sample name	Archaeological site type	Archaeological site name	Site GPS coordinates	Site location	Sample material type	Sample location inside the site	Epoch, period, time based on archaeological data	Radiocarbon dating made at the USC NSU-NSC collective use center, years before present	Archaeological culture	Excavation information	The head of the collection	A person who performed a taxonomic definition
1	BerL-3.2	Settlement	Березовая Лука Berezovaya Luka	52°32'52.82"N 82°59'18.06"E; 52.548006, 82.988350	Russia, Altai Krai, Aleysky District	Sesamoid 1 (Large pastern)	Collections from a destroyed utility pit	Early ancinty, Early Bronze Age, 21st–19th centuries BCE	—	Eluninskaya	Collections of Tishkin A.A., 2020	Tishkin A.A. (AltSU)	Tishkin A.A.
2	BerL-4	Settlement	Березовая Лука Berezovaya Luka	52°32'52.82"N 82°59'18.06"E; 52.548006, 82.988350	Russia, Altai Krai, Aleysky District	Sesamoid 3 (Outer splint)	Collections from a destroyed utility pit	Early ancinty, Early Bronze Age, 21st–19th centuries BCE	—	Eluninskaya	Collections of Tishkin A.A., 2020	Tishkin A.A. (AltSU)	Tishkin A.A.
3	Chek1-6	Settlement	Чекановский Лог-2 Chekanovsky Log-2	51°04'46.31"N 82°00'13.80"E; 51.079531, 82.003833	Russia, Altai Krai, Tretyakovsky District	Tooth	№ 6	Developed ancinty, Developed Bronze Age	—	Andronovo	Demin M.A., Sitnikov S.M.	Tishkin A.A. (AltSU)	Plasteeva N.A.
4	Man2-1	Settlement	Манжиха-2 Manzhikha-2	53° 6'53.81"N 86° 3'45.24"E; 53.114947, 86.062567	Russia, Altai Krai, Tselinny District	Tooth	Square 3-1/2 layer	Late ancinty, Early Iron Age	2252 ± 34 (GV-5699)	Bystryanskaya	Demin M.A., Sitnikov S.M.	Tishkin A.A. (AltSU)	Plasteeva N.A.
5	Tas-1	Settlement	Тасты-Булак Tasty-Bulak	~ 50.482131, 59.141449	Kazakhstan, Aktobe Region, Khromtau District, the settlement is located about one and a half kilometers north of the steppe river Tasty-Butak (right tributary of the river Or)	Tooth	—	Developed ancinty, Bronze Age, Andronovo	3371 ± 35 (GV-5700)	Andronovo	Sorokin V.S., 1959–1963	Kasparov A.K. (IHMC RAS), Tishkin A.A. (AltSU)	Kasparov A.K.

**Table (continued)**

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6	Bar4-1	Settlement	Барсучиха-4 Barsuchikha IV	53° 6'0.13"N 82°24'6.21"E; 53.100036, 82.401725	Russia, Altai Krai, Rebrikhinsky District	Skull fragment (pars petrosa of the temporal bone)	—	Developed ancientry, Late Bronze Age	3028 ± 35 (GV-5695)	Irmen/Sargarinsko-Alexeevskaya	Archaeological expedition of the Altai State Pedagogical University, Demin M.A.	Tishkin A.A. (AltSU)	Plasteeva N.A.
7	Gus1-2	Settlement	Гусиная Ляга-1 Gusinaya Lyaga-1	53°39'30.38"N 79°33'56.88"E; 53.658439, 79.565800	Russia, Altai Krai, Khabarsky District	Sesamoid 3 (Outer splint)	Excavation 1, square Ч'-13/4 layer	Developed ancientry, Late Bronze Age, Arzhan-Mayemir	—	Irmen/Sargarinsko-Alexeevskaya	Kulunda archaeological expedition of the Altai State Pedagogical University, Sitnikov S.M., 2004	Tishkin A.A. (AltSU)	Plasteeva N.A.
8	Gus1-3	Settlement	Гусиная Ляга-1 Gusinaya Lyaga-1	53°39'30.38"N 79°33'56.88"E; 53.658439, 79.565800	Russia, Altai Krai, Khabarsky District	Tooth	Excavation-1, square Л'-12/3 layer	Developed ancientry, Late Bronze Age, Arzhan-Mayemir	2917 ± 41 (GV-4948)	Irmen/Sargarinsko-Alexeevskaya	Kulunda archaeological expedition of the Altai State Pedagogical University, Sitnikov S.M., 2004	Tishkin A.A. (AltSU)	Plasteeva N.A.
9	Gus1-4	Settlement	Гусиная Ляга-1 Gusinaya Lyaga-1	53°39'30.38"N 79°33'56.88"E; 53.658439, 79.565800	Russia, Altai Krai, Khabarsky District	Tooth	Excavation-1, square К'-12/3 layer	Developed ancientry, Late Bronze Age, Arzhan-Mayemir	—	Irmen/Sargarinsko-Alexeevskaya	Kulunda archaeological expedition of the Altai State Pedagogical University, Sitnikov S.M., 2004	Tishkin A.A. (AltSU)	Plasteeva N.A.
10	Gus1-5	Settlement	Гусиная Ляга-1 Gusinaya Lyaga-1	53°39'30.38"N 79°33'56.88"E; 53.658439, 79.565800	Russia, Altai Krai, Khabarsky District	Tooth	Excavation-1, square П-8/3 layer	Developed ancientry, Late Bronze Age, Arzhan-Mayemir	3016 ± 42 (GV-4949)	Irmen/Sargarinsko-Alexeevskaya	Kulunda archaeological expedition of the Altai State Pedagogical University, Sitnikov S.M., 2002	Tishkin A.A. (AltSU)	Plasteeva N.A.

**Table (continued)**

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11	Gus1-6	Settlement	Гусиная Ляга-I Gusinaya Lyaga-1	53°39'30.38"N 79°33'56.88"E; 53.658439, 79.565800	Russia, Altai Krai, Khabarsky District	Tooth	Excavation-1, square H-8/3 layer	Developed ancientry, Late Bronze Age, Arzhan- Mayemir	—	Irmen/ Sargarinsko- Alexeevskaya	Kulunda archaeological expedition of the Altai State Pedagogical University, Sitnikov S.M., 2002	Tishkin A.A. (AltSU)	Plasteeva N.A.
12	Kalt5-2	Settlement	Калтышино-V Kaltyshino V	54°50'44.82"N 85° 7'29.42"E; 54.845783, 85.124839	Russia, Kemerovo Oblast, Promyshlennovsky District	Tooth	—	Developed ancientry, Late Bronze Age	3048 ± 35 (GV-5698)	Irmen	Zharonkin V.N., 2004	Tishkin A.A. (AltSU)	Onishenko S.S.
13	Kalt5-3	Settlement	Калтышино-V Kaltyshino V	54°50'44.82"N 85° 7'29.42"E; 54.845783, 85.124839	Russia, Kemerovo Oblast, Promyshlennovsky District	Tooth	—	Developed ancientry, Late Bronze Age	—	Irmen	Zharonkin V.N., 2004	Tishkin A.A. (AltSU)	Onishenko S.S.
14	Chek1-1	Settlement	Чекановский Лог-I Chekanovsky Log I	51°04'46.31"N 82°00'13.80"E; 51.079531, 82.003833	Russia, Altai Krai, Tretyakovsky District	Tooth	Excavation-1, square M-8/3 layer	Developed ancientry, Late Bronze Age, Arzhan- Mayemir	3214 ± 42 (GV-4947)	Sargarinsko- Alexeevskaya	Gilyovo archaeological expedition of the Altai State Pedagogical University, Demin M.A., Sitnikov S.M., 1998	Tishkin A.A. (AltSU)	Plasteeva N.A.
15	Chek1-2	Settlement	Чекановский Лог-I Chekanovsky Log I	51° 5'5.28"N 81°59'50.94"E; 51.084800, 81.997483	Russia, Altai Krai, Tretyakovsky District	Tooth	Excavation-1, square M-8/3 layer	Developed ancientry, Late Bronze Age	—	Sargarinsko- Alexeevskaya	Gilyovo archaeological expedition of the Altai State Pedagogical University, Demin M.A., Sitnikov S.M., 1998	Tishkin A.A. (AltSU)	Plasteeva N.A.

**Table (end)**

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16	Chek1-3	Settlement	Чекановский Лог-I Chekanovsky Log I	51° 5'5.28"N 81°59'50.94"E; 51.084800, 81.997483	Russia, Altai Krai, Tretyakovsky District	Tooth	Excavation-1, square II-11	Developed ancientry, Late Bronze Age	—	Sargarinsko-Alexeevskaya	Gilyovo archaeological expedition of the Altai State Pedagogical University, Demin M.A., Sitnikov S.M., 1998	Tishkin A.A. (AltSU)	Plasteeva N.A.
17	Chek1-4	Settlement	Чекановский Лог-I Chekanovsky Log I	51° 5'5.28"N 81°59'50.94"E; 51.084800, 81.997483	Russia, Altai Krai, Tretyakovsky District	Tooth	Excavation-1, square II-11/2 layer	Developed ancientry, Late Bronze Age	—	Sargarinsko-Alexeevskaya	Gilyovo archaeological expedition of the Altai State Pedagogical University, Demin M.A., Sitnikov S.M., 1998	Tishkin A.A. (AltSU)	Plasteeva N.A.

“—” No information available.