Pazyryk culture has been studied for over 150 years. Throughout this time, the main objects of investigation have been artifacts and objects of art – everything the archaeologists managed to discover at burial sites: above-ground structures and tumulus frameworks, hollowed-out logs and funeral beds, horse harness, arms, pottery, ornaments, clothes and many other things. The achievements made in this area so far are impressive but we have to confess that nothing radically new is in sight. A future breakthrough will require the involvement of physical anthropology and paleogenetics: we will never gain a deep insight into Pazyryk culture if we don’t find out who were the people who created it.
**HYPOTHESES AND FACTS • Archaeology**

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* The mummies of the Ogolkhoy burial site, situated on the left bank of the River Yenisei, in today’s Khakassia, are not as ancient as the ones from the Altai Mountains. They date to the first half of the 1st millennium AD and are of natural origin, i.e., the bodies were preserved by chance, owing to unique circumstances, — all these mummies should not have been preserved, they should have remained a closed book, a secret of the seven seals...

No wonder Pazyryk culture is tremendously appealing both to scholars and to people far from archaeology. Artifacts from the “frozen” tombs in the Altai Mountains overshadow the Scythian Gold and Sarmatian treasures. They are fragile, short-lived and few. In other words, they are unique. A nonprofessional cannot even extract them from the burial; items from the “frozen” graves need to be immediately conserved by specialists.

You cannot stumble onto any artifacts belonging to this culture; they cannot be retrieved by illegal excavations or auctioned. They are virtually impossible to find: the climate has been changing drastically and irreversibly and the balance that kept some of the Pazyryk tombs in the frozen state has been upset...

In addition, Pazyryk culture is the only ancient culture in Russia whose burials contain six mummified bodies of men and women.* Pazyryk mummies differ from the numerous natural...

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Some archaeological cultures have much more to offer us than others, and Pazyryk culture is one of them. This is attributed to the fact that it is mainly represented by the items made of organic materials. Patched and darned clothes, worn soles, coats made of leather and fur patches, birds and animals carved out of cedar, fanciful felt appliqués, plaits made of woven threads, many mended wooden kitchenware, remains of paints and seeds — all these minutiae should not have been preserved, they should have remained a closed book, a secret of the seven seals...

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Griffon, ornament of horse harness. Tumulus 1, Ak-Alakha-1 burial site

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The process of melting the hollowed-out log where a woman mummy was lying. Tumulus 1, Ak-Alakha-1 burial site

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* The mummies of the Ogolkhoy burial site, situated on the left bank of the River Yenisei, in today’s Khakassia, are not as ancient as the ones from the Altai Mountains. They date to the first half of the 1st millennium AD and are of natural origin, i.e., the bodies were preserved by chance, owing to unique circumstances, similarly to the partly mummified body of the girl from the Scythian burial site of Saryg-Bulun in Central Tuva and the body of a young Xiongnu woman from the Terenti burial site located in the flood zone of the Sayano-Shushensk reservoir.
The seasonal (spring-autumn) nature of the Pazyryk burials, established based on reliable evidence, such as the content of the stomachs of the horses buried together with the humans, identification of the plants frozen in ice inside the funeral chambers, etc., has equivalents in the traditional Altaian culture. For instance, similarly to the Pazyryks, the Altaians had the practice of temporary burials for the same reason: impossibility of winter burials according to the adopted funeral rite in the conditions of the Altai Mountains. They used to leave the dead body in a cleft in a rock, in a grotto, in gravel or in mounds, covering it with rocks, or suspended it in a tree, having wrapped it in felt or hide of an animal, as a rule, a bull. In the appropriate season, they took the body to bury it properly (Yamayeva, 2002). For the proper funeral, the Pazyryks were made by people and are the product of specific manipulations performed on dead bodies. This gives us a glimpse of Pazyryk culture as a complex cultural and historical phenomenon yet to be discovered.

Surprisingly, even knowing nothing about this culture and basing only on the mummies’ appearance, the archaeologists realized that among the members of the nobility buried in the Pazyryk mounds in East Altai there were people of different anthropological types. One of the first explorers of the Pazyryk burial mounds, S. I. Rudenko, who was an archaeologist and an anthropologist, noticed that the mummiﬁed heads of men and women from the Second and Fifth Pazyryk Tumuli had racial differences: there were representatives of both Mongoloid and Caucasoid ethnicities.

It seemed at ﬁrst that the race differences concerned only the Pazyryk nobles, who were supposed to take wives and concubines from faraway lands. A. A. Gavrilova even advanced the hypothesis that the chief’s wife, buried together with him in the Fifth Pazyryk Tumulus, was from Media. Underlying this hypothesis was not only the woman’s physical appearance but also archaeological ﬁndings: Persian (Anterior Asian) fabric of the saddle-cloth and the world’s oldest pile carpet (Gavrilova, 1996). According to A. A. Gavrilova, the woman was buried as a witch that had brought seven disasters (the number of disasters was determined from the number of the logs lain across the funeral log allegedly to prevent the woman from getting out of it). And this is just one example of the many. Over the years, Pazyryk culture and its bearers have overgrown with conjectures and legends. Every new insight destroys the previous hypotheses but does not make this culture less enigmatic. Reality appears to be more exciting and unpredictable than fantasy. In fact, it might be a good idea to publish a book entitled Legends and Myths of the Pazyryk Culture of the Altai Mountains that would be a collection of hypotheses put forward by scholars and parallel folk epic.

The Pazyryks formed as a new speciﬁc population living within a certain area, sharing a common way of life, material and spiritual culture because they included a number of ethnic and cultural groups. Today, we can speak about these groups with more certainty than 20 years ago. Many years of research have revealed what races constituted the Pazyryk population of the Altai Mountains and what their health condition was. However, our current knowledge is far from the final verdict.

Knowledge of the people should be connected with what we know about the culture they developed. To consider these two things separately is similar to studying the works of a well-known artist without bothering to learn anything about their author. So far, we are better acquainted with the images of the Pazyryk art than with the people who created them. The creators are anonymous and will remain so. However, thanks to objective research many of them will acquire personality...
The felt carpet discovered by S. I. Rudenko’s expedition in the so-called horse department of the Fifth Pazyryk Tumulus has multiple depictions of a scene popular in the Scythian world: against the white background of the carpet base there are coloured appliqués in the shape of a goddess with a blooming branch in her hands, sitting in an armchair, with an armed horseman standing in front of her. In Rudenko’s opinion, originally, the carpet hung on a wall in a dwelling and, afterwards, was used for a funeral ceremony. For this purpose, a stripe of another wall carpet (supposedly) was sewn on to it. In the grave, the carpet covered a chariot and four horses. The experts have managed to restore the pattern of the sewn-on carpet fragment: on the top there was a multicolor image of the hind part of a fancy bird; at the bottom, the picture of a rampant winged monster with the lion’s body and the head crowned with antlers and an animal’s ear. The monster has a human face with a big nose and handlebar moustache. According to S. I. Rudenko (1951, p. 114), “This pattern takes us to the ancient images of a semi-human and semi-animal, typical of Anterior Asia.” If we compare the profiles of the fancy creature from the felt carpet and the Assyrian relief in the Pergamon Museum, Berlin, they will appear identical. Especially remarkable are the long noses. Evidently, the monster shown on the carpet depicts a certain anthropological type – Persian, or, to be more exact, Assyrian.

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These extraordinary creatures with wings, lion’s body and human head depicted on the carpet from the Fifth Pazyryk Tumulus have close counterparts in the Assyrian art, where this image is widespread. S. I. Rudenko was absolutely right when he wrote that this character appeared in the Altaian art as a result of ancient, pre-Achaemenid connections between the northeastern Scythian-Saka tribes and the peoples of Anterior Asia. However, the Pazyryk also contributed greatly to creating an original image of their own monster. Apart from the carpet from the Fifth Pazyryk Tumulus, felt appliqués depicting a sphinx were discovered on the saddle cover of a horse from the Tenth Berel Tumulus – a Pazyryk burial site based in the valley of the River Bukhtarma, East Kazakhstan (Samashev, 2005). This fantastic creature has the spotted body of a cat predator, human face, horns of a mountain goat and wings. The felt appliqués are in two colors: the front part of the body and the head are blue, and the hind part is red. In its iconography, this monster resembles the creature depicted on the silver plates from the Saka Isysh Tumulus, Zhetysu, Kazakhstan, and the remarkably picturesque image woven on woolen cloth from the Shampula burial site, Xinjiang, China. Interestingly, only the latter creature makes part of a hunting scene – it is shown as the prey of a horseman – and can thus be considered a negative, rather than a positive character.

In Assyrian mythology, similar images personified a human’s spirit-savior but was this meaning transferred without change to the culture of Middle Asian nomads and cattle-raisers? Probably, not. A typical feature of Pazyryk art is complementing the images of real animals with the characteristics of other animals and birds, changing their identity. This feature is common in many other cultures and peoples. The Pazyryk, however, went further and applied it not only to art but also to real life: they disguised horses as deer and goats by putting big wooden antlers and horns on them. And from there, it was a short step to changing the humans’ identity by adding the most attractive features of animals and birds: the flexible, strong body of a cat predator, wings (the eternal dream of flying) and threatening horns or antlers. This image originating from the art of Anterior Asia was entirely rethought by Central Asian herdsmen, but its meaning is vague to us.

The depictions of semi-humans and semi-animals are common in ancient art:

a – sphinx from the Fifth Pazyryk Tumulus. State Hermitage, St. Petersburg;
b – creature on the silver plate from the Issyk burial site, Zhetysu, Kazakhstan;
c – depiction from the Assyrian relief on the slab, Pergamon Museum (Berlin, Germany);
e – appliqué on the horse saddle cover from the Tenth Tumulus, Berel burial site;
f – depictions embroidered on a fragment of the woolen cloth of the skirt from Shanpula III burial site, Xinjiang, Abegg Fund (Riggisberg, Switzerland)

Drawings by Ye. Shumakova

The big felt carpet (GE # 1687-95). Fifth Pazyryk Tumulus. Fragment with a sphinx. State Hermitage, St. Petersburg
Plateau, Pakistan and adjacent to them western part of India, as well as of Middle Asia. Consequently, the figures on the felt carpet can actually depict the representatives of the Pazyryk community who had preserved the anthropological type characteristic of the ancient cattle herders of Anterior and Middle Asia.

The influence of Anterior Asia on Pazyryk culture, first noticed by S. I. Rudenko, manifests itself primarily in the tradition of mummification. Elaborate manipulations with skulls, making “dolls” for incineration, etc. were known in all parts of the world since the Neolithic period. Mummification, however, is entirely inherent to urban civilizations. This specific ritual was not as widespread as it is hard to imagine how it could be done in the Altai Mountains (Polosmak, 2000).

The practices of conserving the dead bodies testify to an intricate cultural tradition and distinct worldview hardly compatible with the pastoralist way of life and rather inherent to urban civilizations. This specific ritual may have implied the existence of “experts” specializing in mummifying the bodies of the deceased. Even though we now know for a fact that all the Pazyryks who died were mummified — using a more or less complicated procedure — it is hard to imagine how it could be done in the Altai Mountains (Polosmak, 2000).

Another series of the portrayal of human faces are carved wooden plates which made part of the bridle ornament which the dead, paid special attention to tattoos. Pazyryk culture, with its tradition of mummifying the dead, paid special attention to tattoos.

Wooden pendant plates attached to the harness of a horse from the First Pazyryk Tumulus, excavations of a horse from the First Pazyryk Tumulus, diggings by M.P. Griaznov (1929). State Hermitage, St. Petersburg. Only in 1991, artifacts of the same kind were discovered in the Kouturguntas Tumulus. The Kouturguntas faces also have distinguished anthropological and socio-historical information. They came to the conclusion that the pendant plates depict the Mongoloid faces without a moustache of the Central Asian or rather local Altaian type. In addition, even within this small series, I. I. Gokhman found essential differences: four of the seven faces refer to the Mongoloid type according to the anthropological traits, while the other three are half-caste.

He considered the central plate to be more individualized: “This is a portrait of a man having a high position in the hierarchy, it is a leader (ibid, p. 30).* According to him, the bridle ornament as a whole was a kind of a group portrait showing the tribal structure of Altaian nomads. “Even if there were no anthropological material and these plates were the only source of the anthropological composition of the population, the results would still be valid” (ibid, p. 31—32).

* At the time this paper was being written, these pendant plates were only found in the Pazyryk culture. Only in 1991, artifacts of the same kind were discovered in the Kouturguntas tumulus.
However, this is not the only interpretation of the faces depicted on the plates. For instance, D. G. Savinov and S. G. Kliazhonov (1996) believe that the pendants show people of a different tribe, who must have been the enemies of the Pazyrk, namely Xiongnu. As we know now, and this view is in conformity with L. L. Barkova and I. I. Gokhman’s findings, one of the types of the Mongoloid faces could actually portray Xiongnu though they were not the enemies but the people who had “naturalized” in the Pazyrk community shortly before the steppe tribes united to form an empire.

THE HORSEMEN OF UKOK

The first discovered Pazyrk burial with a “frozen” tomb was Tumulus 1 of Ak-Alakha-1, which has not been looted. This funeral complex allowed us to reconstruct the Pazyrk men’s costume and military outfit. An adult man and a young male, accompanied by nine horses, were buried in a double larch crypt. Each man was lying in his own hollowed-out larch log, with a wooden “pillow” under the head. The artifacts that have survived include parts of the costume including trousers made of woolen fabric, felt headgear, fragments of footwear, and multiple wooden ornaments in the shape of animal figurines covered with gold foil. All the wooden decorations are true works of art, as well as the felt saddle covers and fish-shaped saddle pendants. It was established that the older man was 45 to 50, and the younger, 15 to 18. Since the bodies of the buried man have not survived, their gender and age were determined based on the skeletal remains by physical anthropology methods. Initially, the younger man was identified as a female. Later, molecular-genetic analysis using four systems of genetic markers revealed that it was a young man (Pilipenko, Trapeznov, Polosmak, 2015).

The older man buried in Tumulus 1, Ak-Alakha-1 burial site, was 45–50 years old, the younger was 16–18 years old. Paleogenetic studies have shown that they were not father and son as it could be expected but must have had a more distant relation (for example, uncle and nephew) (Pilipenko, Trapeznov, Polosmak, 2015). Anthropological reconstruction by D. Pozdniakov.
Karakol culture that existed in the Altai area is an unusual and little-studied phenomenon. The burial sites pertaining to this culture, discovered by V.D. Kubarev, were found by chance — so far, they are not many. All of them are based in the Ongudai District of the Altai Republic. The tombs were stone boxes oriented east-west and placed inside the stone fences of cemeteries or in the older mounds of Afanasiev culture. The deceased were laid on the back, head to the west. All the burials had birch bark covers and mats or their traces. According to Kubarev, the shape, structure, and decoration of the stone tomb boxes imitated dwellings. The walls of the symbolic dwelling depicted anthropomorphic creatures, painted or carved on stone slabs. The murals on the slabs made part of the funeral rites. These fancy images are the most extraordinary thing about this culture. One of the hypotheses of the origin of the Karakol people is migration of Caucasian population from the southwestern regions of Anterior Asia; another hypothesis states that they were indigenous people, which from the territories of modern Anterior and Middle Asia, as well as individual representatives of the Mongoloid type, most closely related to the Xiongnu population of South and Southeast Transbaikalia. Until recently, only one pure Mongoloid has been found: a 60-year-old man from the large Shibe Tumulus located in the River Ural Valley, Altai Mountains, examined by M. P. Griznov in 1924. Today, however, we know of two other representatives of the Mongoloid type: a woman from Tumulus 1, Ak-Alakha-3 burial site, and a man from Tumulus 5, Ak-Alakha-5.

Among the Pazyryks there occurred, though very rarely, Mongoloids, most closely related to the Xiongnu population of South and Southeast Transbaikalia. Until recently, only one pure Mongoloid has been found: a 60-year-old man from the large Shibe Tumulus located in the River Ural Valley, Altai Mountains, examined by M. P. Griznov in 1924. Today, however, we know of two other representatives of the Mongoloid type: a woman from Tumulus 1, Ak-Alakha-3 burial site, and a man from Tumulus 5, Ak-Alakha-5.

The presence of this racial component in the anthropological medium of the Pazyryk culture testifies not to the mixing of the population but to the existence of yet unclear relations between the Pazyryks and Mongoloid peoples of East Siberia (Chikisheva, 1996, 2003). It has been firmly established that the woman with Mongoloid features from Ak-Alakha-3 was buried in the beginning of the 3rd c. BC, that is, before the nomadic Xiongnu empire was built. Those individual representatives of the Xiongnu became part of Pazyryk culture: they were buried according to Pazyryk tradition; their bodies were mumified, and the woman’s body is covered with a typical Pazyryk tattoo. The three currently known individuals of the Mongoloid type represented all the strata of the Pazyryk community: the old man buried in the double crypt at the depth of 6 to 7 meters in the big Shibe Tumulus (45 m in diameter) on the River Ural, accompanied by 14 horses, clearly belonged to the highest social stratum; the woman from Burial 2, Tumulus 1, Ak-Alakha-3 burial site, buried in a hollowed-out log set inside a larch crypt, accompanied by six horses, was middle class; and the man buried with one horse in Tumulus 5, Ak-Alakha-5 burial site, belonged to the lower social stratum.

The reasons why these people came to Altai and integrated into the local culture remain a mystery. Silk and mirrors found in the Altai tumuli as well as some Chinese echoes heard in the Pazyryk art may be attributed to them. From the available data, it appears that the Pazyryks of the Altai Mountains were a new population formed as a result of close contact between the local (autochtonous) population and non-indigenous population, primarily migrants from the territories of modern Anterior and Middle Asia, as well as individual Mongoloid representatives from East Siberia.
Mankind’s most heroic deed is that it has survived and intends to survive in the future.

The fact that the Pazyryk culture was largely formed by the natives of the regions located far from the Altai Mountains and having different climatic and natural conditions impaired the population’s physical condition and longevity. The Pazyryk from the Ukok Plateau lived on the average, 30 to 40 years and suffered from various diseases affecting, above all, the locomotor system and dentition, as well as from oncolgy.

All this complex of collective chronic diseases can be referred to as the “cost of adaptation” – this is what the physiologists call the pre-pathologic and pathologic changes in the organism resulting from its specific resistance to stress including the environment (highlands, hot/cold climate, etc.) (Trachev, 1994).

In addition to diseases, many Pazyryk suffered from injuries, which — importantly — were exceptionally domestic. Taken together, all these ailments severely affected the quality of life and sometimes caused death. Another possible cause of death were infections.

Thus, the steppe (southeast) part of the Ukok Plateau is part of the highland natural focus of bubonic plague (a highly infectious disease) in the Altai Mountains. The focus also includes the area between the Saylugem, Chikhachev, Kurai, North-Chuya and South-Chuya ranges surrounding the Chuya steppe. The main carriers of bubonic plague are rodents. People are infected when bitten by infected insects or through direct contact with carriers.

Bonvic plague are rodents. People are infected when bitten by infected insects or through direct contact with carriers.

Some of the infections that could spread among the Pazyryks were connected with their main economic activity, cattle breeding.

Another threat to the health of the people inhabiting the Altai Mountains was identified quite recently — it is widely spread iodine deficiency. For example, it was discovered that the Telengits from the Altai Highlands suffered from moderate endemic goiter and iodine deficiency (Maklakova, 2011). This illness was caused by the food habits of Altaians, who mostly consumed products of animal origin. In the same area, goiter in sheep was prevalent due to insufficient iodine content in local foods. Endemic goiter may also develop because of the high levels of mercury, which is typical of the biogeochemical province of the Altai Mountains (Savchenkov et al., 2002; Yelchanova, 2019), as this element can react with iodine, making it inactive.

As we know, it was flesh meat that accompanied the fellow-tribesmen to the other world: on wooden plates and bone spatulas, and on the left hand, in the hands of the living (Andrades Valtuena et al., 2017).

The Pazyryk diet was dominated by animal foods. As we know, it was flesh meat that accompanied the fellow-tribesmen to the other world: on wooden plates and bone spatulas, and on the left hand, in the hands of the living (Andrades Valtuena et al., 2017). According to physiologists, this is what the physiologists call the pre-pathologic and pathologic changes in the organism resulting from its specific resistance to stress including the environment (highlands, hot/cold climate, etc.) (Trachev, 1994).

The singularity and variety of human images found in Pazyryk art suggests that this culture was compound and multi-ethnic, which is proved by anthropological and paleogenetic studies. Presumably, for the community that strived to survive, not the racial features but personal qualities mattered, and thanks to them, each member occupied a place dedicated to him or her: this genetic and ethnic diversity must be the mystery of this culture — its original style deriving from eclecticism, its physical strength, and its adaptability.

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