

Excavations at Avdalai Khyasaa Site: The Fourth Report on Joint Mongolian-Japanese Excavations in Outer Mongolia

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Reference

- Baba, H.** 1991 *Anthropology additional vol. 1: Anthropometry no. 2 Osteometry*. Yuzankaku Press, Tokyo (in Japanese).
- Bentley, R.A.** 2006 Strontium Isotopes from the Earth to the Archaeological Skeleton: A Review. *Journal of Archaeological Method and Theory*, 13:135-187
- Bentley, R.A., Price, T.D. and Stephan, E.** 2004 Determining the 'local' $^{87}\text{Sr}/^{86}\text{Sr}$ range for archaeological skeletons: A case study from Neolithic Europe. *Journal of Archaeological Science*, 31: 365-375.
- Buckley, M., Kansa, S. W., Howard, S., Campbell, S., Thomas-Oates, J., and Matthew Collins.** 2010 Distinguishing between archaeological sheep and goat bones using a single collagen peptide. *Journal of Archaeological Science* 37, 13-20.
- Buikstra, J.E., Ubelaker, D.H.** 1994 *Standards for data collection from human skeletal remains*. Arkansas Archaeological Survey, Fayetteville.
- Blum, J.D., Taliaferro, E.H., Weisse, M.T. and Holmes, R.T.** 2000 Changes in Sr/Ca, Ba/Ca and $^{87}\text{Sr}/^{86}\text{Sr}$ ratios between trophic levels in two forest ecosystems in the northeastern U.S.A. *Biogeochemistry* 49: 87-101.
- Copeland, S., Sponheimer, M., Le Roux, P., Grimes, V., Lee-Thorp J., de Ruiter, D., and Richards M.** 2008 Strontium isotope ratios ($^{87}\text{Sr}/^{86}\text{Sr}$) of tooth enamel: a comparison of solution and laser ablation multicollector inductively coupled plasma mass spectrometry methods. *Rapid Communications in Mass Spectrometry* 22; 3187-3194.
- Copeland, S. R., Sponheimer, M., Lee-Thorp, J. A., Le Roux, P. J., De Ruiter, D. J., and Richards, M. P. (2010).** Strontium isotope ratios in fossil teeth from South Africa: assessing laser ablation MC-ICP-MS analysis and the extent of diagenesis. *Journal of Archaeological Science* 37, 1437-1446.
- Ericson, J.E.**, 1985 Strontium isotope characterization in the study of prehistoric human ecology. *Journal of Human Evolution* 14: 503-514.
- France, D. L.** 2009 *Human and nonhuman bone identification: a color atlas*. CRC Press, US.
- Гантуяга, Ж.** 2016 Сагсай хэлбэрийн булш, Монголын Эртний Були Ориуулга III, Улаанбаатар: 56-62.
- Göhring, A., Hözl, S., and Strauss, H.** 2023 Multi-isotope fingerprints of recent environmental samples from the Baltic coast and their implications for bioarchaeological studies. *Science of The Total Environment*, 20: <https://doi.org/10.1016/j.scitotenv.2023.162513>
- Hillson, S.** 1996 *Dental Anthropology*. Cambridge University Press, Cambridge.
- Hiramoto, Y.** 1981 The secular change in the stature of Japanese viewed from the bones. *The Archaeological Journal*, 197: 24-28 (in Japanese).
- Honeychurch, W.** 2015 *Inner Asia and Spatial Politics of Empire Archaeology, Mobility, and Culture Contact*, Springer, New York.
- Horstwood, M.S.A., Evans, J.A. and Montgomery, J.** 2008 Determination of Sr isotopes in calcium phosphates using laser ablation inductively coupled plasma mass spectrometry and their application to archaeological tooth enamel. *Geochimica et Cosmochimica Acta*, 72: 5659-5674.
- Kato, Y.** 1976 *Illustrated Comparative Anatomy of Domestic Animals*. Yokendo Press, Tokyo (in Japanese).
- Ковалев, А.** 2012 Чемурческий Культурный Феномен. Санкт-Петербург.
- Kovalev, A.** 2022 Megalithic traditions in the Early Bronze Age of the Mongolian Altai: the Chemurche (Qie'muerqie) cultural phenomenon. *Megalithic World Volume II*, Archaeopress: 767-789.
- Kovalev, A. & Erdenebaatar, D.** 2009 Discovery of New Cultures of the Bronze Age in Mongolia According to the Data Obtained by the International Central Asian Archaeological Expedition. *Current Archaeological Research in Mongolia* Papers from the First International Conference on "Archaeological Research in Mongolia" held in Ulaanbaatar, August 19th-23rd, 2007", Rheinische Friedrich-Wilhelms-Universität Bonn, Bonn, Germany: 149-170.
- Kusaka, S., A. Ando, T. Nakano, T. Yumoto, E. Ishimatsu, M. Yoneda, F. Hyodo, F. & K. Katayama.** 2009. A Sr isotope analysis on the relationship between ritual tooth ablation and migration among the Jomon people in Japan. *Journal of Archaeological Science* 36: 2289-2297.
- Kusaka, S., Nakano, T., Yumoto, T., & Nakatsukasa, M.** 2011 Strontium isotope evidence of migration and diet in relation to ritual tooth ablation: A case study from the Inariyama Jomon site, Japan. *Journal of Archaeological Science* 38: 166-174.
- Kusaka, S., Yamada, Y., Yoneda, M.** 2018 Ecological and cultural shifts of hunter-gatherers of the Jomon period paralleled with environmental changes. *American Journal of Physical Anthropology* 167: 377-388.
- Lovejoy, C.O., Meindl, R.S., Pryzbeck, T.R., Mensforth, R.P.** 1985 Chronological metamorphosis of the auricular surface of the ilium: A new method for the determination of adult skeletal age at death. *American Journal of Physical Anthropology*, 68: 15-28.
- Matsui, A.** 2008 *Fundamentals of zooarchaeology in Japan*. Kyoto University, Kyoto. Press, Kyoto.
- Meindl, R.S., Lovejoy C.O.** 1985 Ectocranial suture closure: A revised method for the determination of skeletal age at death based on the lateral-anterior sutures. *American Journal of Physical Anthropology*, 68: 57-66.

- Miyamoto, K.** 2016 Change and Development process of the Stone-slab graves in Bronze Age of Mongolian Plateau. *Shien*, 153: 31-57 (in Japanese).
- Miyamoto, K.** 2018 Bronze Age Khirigsuur and Stone-slab Burial Cultures on the Mongolian Plateau. *Excavations at Daram and Tevsh Site*. Fukuoka: 67-78.
- Miyamoto, K. and Amgalantugus T.** 2016 Excavations at Tevsh site. *Excavations at Daram and Tevsh Sites*. Fukuoka: 42-49.
- Miyamoto K., Amgalantugus T., and Delgermaa L.** 2017 Excavations at Bor Ovoo Site. *Excavations at Bor Ovoo and Khyar Kharaach Sites*. Fukuoka: 3-23.
- Miyamoto, K. ed.** 2017 *Excavations at Bor Ovoo and Khyar Kharaach Site*, Faculty of Humanities, Kyushu University, Fukuoka.
- Miyamoto K. ed.** 2018 *Excavations at Emeelt Tolgoi Site*, Faculty of Humanities, Kyushu University, Fukuoka.
- Miyamoto, K. & Obata, H. ed.** 2016 *Excavations at Daram and Tevsh Site*, Faculty of Humanities, Kyushu University, Fukuoka.
- Miyamoto, K., Tajiri Y., Amgalantugus, T., Batbold, N and Delgermaa, L.** 2017 Excavations at Khyar Kharaach site. *Excavations at Bor Ovoo and Khyar Kharaach Sites*. Fukuoka: 24-54.
- Miyamoto, K., Amgalantugus, T., and Delgermaa, L.** 2017 Excavations at Bor Ovoo Site. *Excavations at Bor Ovoo and Khyar Kharaach Sites*. Fukuoka: 3-23.
- Miyamoto, K., Tajiri Y., Amgalantugus, T., Batbold, N and Delgermaa, L.** 2017 Excavations at Khyar Kharaach site. *Excavations at Bor Ovoo and Khyar Kharaach Sites*, Fukuoka: 24-54.
- Nakahashi, T., Nagai, M.** 1986 Sex assessment of fragmentary skeletal remain. *Journal of the Anthropological Society of Nippoin*, 94: 289-305 (in Japanese with English summary).
- Ohtaishi, N.** 1980 Determination of Sex, Age and Death-season of Recovered Remains of Sika deer (*Cervus nippon*) by Jaw and Tooth-cement. *Archaeology and natural science*.13: 51-74.
- Okazaki, K., Yonemoto, S., Nakahashi, T.** 2016 The analysis on the human skeletal remains of the Bronze Age unearthed from the both sites of Daram in the Khentii province and Tevsh in the southern Khangai, Mongol. *Excavations at Daram and Tevsh sites*. Kyushu University Press, Fukuoka: 50-62.
- Okazaki, K. and Yonemoto, S.** 2017 Human skeletal remains of the Bronze Age unearthed from the both sites of Hyar-Haraach in the Govi-Altai province and Bor-Ovoo in the Bayankhongor Province, Mongol. *Excavation at Bor Ovoo and Khyar Kharaach sites*. Kyushu Computer Printing Limited Company, Fukuoka: 55-65.
- Payne, S.** 1973 Kill-off Patterns in Sheep and Goats: The Mandibles from Aşvan Kale. *Anatolian Studies* 23: 281-303.
- Phenice, J.W.** 1969 A newly developed method of sexing the pelvis. *American Journal of Physical Anthropology*, 30: 297-301.
- Porhaska, T., Latkoczy, C., Schultheis, G., Teschler-Nicola, M., Stingedder, G.** 2002 Investigation of Sr isotope ratios in prehistoric human bones and teeth using laser ablation ICP-MS and ICP-MS after Rb/Sr separation. *Journal of Analytical Atomic Spectrometry*, 17: 887-891.
- Slovak, N.M and Paytan, A.** 2011 Chapter 35 Applications of Sr Isotopes in Archaeology. In: M. Baskaran (ed.), *Handbook of Environmental Isotope Geochemistry, Advances in Isotope Geochemistry*, DOI 10.1007/978-3-642-10637-8_35, Springer-Verlag Berlin Heidelberg. pp.743-768.
- Taylor, W. Timothy, T., Jargalan, B., Lowry K. B., Clark, J., Tuvshinjargal, T., Bayarsaikhan, J.** 2017 A Bayesian chronology for early domestic horse use in the Eastern Steppe. *Journal of Archaeological Science*. 81: 49-58.
- Todd, T.W.** 1920 Age changes in the pubic bone: 1. The white male pubis. *American Journal of Physical Anthropology*, 3: 467-470.
- Төрбат, Ц.** 2016а Хэмцэгийн соёлын булш. Монголын Эртний Булш Оршуулга III, Улаанбаатар: 36-45.
- Төрбат, Ц.** 2016b Хиргисүүр. Монголын Эртний Булш Оршуулга III, Улаанбаатар: 88-95.
- Wright, J.** 2014 Landscapes of Inequality? A Critique of Monumental Hierarchy in the Mongolian Bronze. In *Asian Perspectives*, 51(2): 139-163.
- Yonemoto, S., Adachi, T., Nakano, N., Funahashi, K., Tanaka, Y. and Osanai, Y.** 2016 The Strontium analysis on the human skeletal remains of the Bronze Age from the Tevsh sites in the southern Khangai Mongol. *Excavations at Daram and Tevsh sites*. Fukuoka: 69-72.
- Yonemoto, S., Adachi T., Nakano, N., Funahashi, K., and Osanai, Y.** 2017 The Strontium analysis on the human skeletal remains from the Khyar Kharaach site in the Gobi Altai, Mongolia. *Excavations at Bor Ovoo and Khyar Kharaach sites*. Fukuoka: 66-72.
- Yonemoto, S., Adachi, T., Nakano N., Funahashi, K., and Osanai, Y.** 2018 The Strontium analysis on the human skeletal remains from the Emeelt Tolgoi site and Bor Ovoo site in Bayanhongor, Mongolia. *Excavations at Emeelt Tolgoi site*. Fukuoka: 54-61.
- Эрдэнэбаатар, Д.** 2016 Мөнххайрханы соёлын булш. Монголын Эртний Булш Оршуулга III, Улаанбаатар: 46-49.