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ANTHROPOLOGICAL STUDY OF HUMAN REMAINS FROM THEBAN TOMB TT 23 (LUXOR, EGYPT)

The article presents anthropological study of Ancient Egypt inhabitants based on the human remains found in Theban tomb TT 23 (Luxor) during archaeological survey lead by Centre for Egyptological Studies of the Russian Academy of Sciences (CES RAS). Cranial morphology and craniometrics, dental metric and non-metric traits, osteometrics and stature of the representatives of the ancient Egyptians are given. Anthropological heterogeneity is shown by the angular craniometrics data. Dental metrics is close to the North African population. While females of the sample have mainly short stature, a number of high-stature males are found. Long bones are usually gracile, flatter of the tibias can be noted. Adaptation to the warm and dry environment can be traced on the remains of some individuals.

Keywords: *Ancient Egypt, craniology, skull angular morphometrics, dental metric and non-metric traits, osteology.*

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References

- Alekseev, V. P. 1966. *Osteometriya. Metodika antropologicheskikh issledovanij* [Osteometry. Anthropological research methodology]. Moscow: Nauka.
- Alekseev, V. P., and G. F. Debets. 1964. *Kraniometriya* [Cranioimetry]. Moscow: Nauka.
- Awwad, R. A. 2020. Gender Dimorphism of Canines in a Sample of Egyptian population. *Advanced Dental Journal* 3: 151–161. <https://doi.org/10.21608/adjc.2020.32227.1070>

- Cybulski, J. S., J. Robert, R. J. Stark, and T. A. Bács. 2015. Bioarchaeology, TT 65 Project, Hungarian Mission in Thebes. In *Egyptian Bioarchaeology: Humans, Animals, and the Environment*, edited by S. Ikram, J. Kaiser, R. Walker, 33–42. Leiden: Sidestone Press.
- D’Anastasio R. U. G. G. E. R. O., J. Cilli, I. Icaro, C. Tanga, and L. Capasso. 2021. The human remains of the funerary complex of Neferhotep (XVIIIth–XXth Dynasty, Valley of the Nobles, Luxor, Egypt): taphonomy and anthropology. *Anthropological Science*, 210507. Published online 23 July 2021 in J-STAGE (www.jstage.jst.go.jp). <https://doi.org/10.1537/ase.210507>
- Elhiny, O. A., R. F. Sharaf, M. A. Elyazied, E. Radwan, and G. A. Salem. 2021. The relationship between tooth size, arch length and arch perimeter in Egyptians. *Bali Medical Journal* 10(3): 1056–1060. <https://doi.org/10.15562/bmj.v10i3.2618>
- Fothi, E., and Z. Bernert. 2010. Anthropological analysis of the human remains from Theban Tomb 32. In *Human and faunal remains from Theban Tomb 32. STUDIA AEGYPTIACA XIX*, edited by G. Schreiber, 17–28. Budapest.
- Greene, D. L. 1972. Dental anthropology of early Egypt and Nubia. *Journal of Human Evolution* 1(3): 315–324. [https://doi.org/10.1016/0047-2484\(72\)90067-X](https://doi.org/10.1016/0047-2484(72)90067-X)
- Herrerín, J., and M. Carmenate. 2021. Mobility in Ancient Egypt from the shape and strength of the femurs. *Anthropological Review* 84(2): 181–199. <https://doi.org/10.2478/anre-2021-0014>
- Herrerín, J., and M. Carmenate. 2022. Sexual dimorphism in crania belonging to the 1st century AD from the tomb of Mentuemhat (TT34), Luxor, Egypt. *Anthropological Science*, 220128. Published online 26 May 2022 in J-STAGE (www.jstage.jst.go.jp). <https://doi.org/10.1537/ase.220128>
- Herrerin, J., A. Prats, L. Ledesma, and A. Isidro. 2018. Syrinx in Spinal Cord in Mummified Individual from West Thebes (Egypt). *World Neurosurgery* 118: 230–234. <https://doi.org/10.1016/j.wneu.2018.07.110>
- Herrerín, J., M. A. Sánchez, S. Onstine, V. Reckard, E. Warkentin, and T. Redman. 2014. Prosthesis for the afterlife in TT16, Luxor, Egypt. *Journal of the American Research Center in Egypt* 50: 127–145.
- Irish, J. D. 2006. Who were the ancient Egyptians? Dental affinities among Neolithic through post-dynastic peoples. *American Journal of Physical Anthropology* 129(4): 529–543. <https://doi.org/10.1002/ajpa.20261>
- Irish, J. D. 2008. A dental assessment of biological affinity between inhabitants of the Gebel Ramlah and R12 Neolithic sites. In *Man–Millennia–Environment: Studies in Honour of Professor Romuald Schild*, edited by A. J. Sulgostowska, Z. Sulgostowska, 45–52. Warsaw: Institute of Archaeology and Ethnology, Polish Academy of Sciences.
- Irish, J. D., and R. Friedman. 2010. Dental affinities of the C-group inhabitants of Hierakonpolis, Egypt: Nubian, Egyptian, or both? *Homo* 61(2): 81–101. <https://doi.org/10.1016/j.jchb.2010.02.001>
- Irish, J. D., and M. Grabowski. 2021. Relative tooth size, Bayesian inference, and *Homo naledi*. *American Journal of Physical Anthropology* 176(2): 262–282. <https://doi.org/10.1002/ajpa.24353>
- Irish, J. D., and L. Konigsberg. 2007. The ancient inhabitants of Jebel Moya redux: Measures of population affinity based on dental morphology. *International Journal of Osteoarchaeology* 17(2): 138–156. <https://doi.org/10.1002/oa.868>
- Isidro, A. 2019. El Templo de Millones de Años de Thutmosis III en Luxor: estudio paleopatológico preliminar y nuevas perspectivas [The Temple of Millions of Years of Thutmosis III in Luxor: Preliminary Paleopathological Study and New Perspectives]. *Trabajos de Egiptología* [Papers on Ancient Egypt] 10: 147–157. <https://doi.org/10.25145/j.TdE.2019.10.08>
- Ivanov, S. 2012. Tomb of Tjay (TT 23). In *Achievements and problems of modern Egyptology. Proceedings of the international conference held in Moscow on September 29 — October 2, 2009*, edited by G. Belova, S. Ivanov, 158–165. Moscow: CES RAS.

- Ivanov, S. 2018. Tomb of Tjay (TT 23). Progress report. *Egypt and Neighbouring Countries* 2: 51–17. <http://doi.org/10.24411/2686-9276-2018-00007>
- Khrisanfova, E. N. 1978. *Evolyutsionnaya morfologiya skeleta cheloveka* [Evolutionary morphology of the human skeleton.]. Moscow: Izdatel'stvo Moskovskogo universiteta.
- Khrisanfova, E. N., and I. V. Perevozchikov. 2005. *Antropologiya* [Anthropology]. Moscow: Izdatel'stvo Moskovskogo universiteta.
- László, O. 2017. 'From Chaos to Coherence': Anthropological Analysis of Commingled Human Remains from Tomb Saf-1 at El-Khoha Hill in Qurna. In *Burial and Mortuary practices in late period and Graeco-Roman Egypt: proceedings of the International Conference held at Museum of Fine Arts, Budapest, 17–19 July 2014*, 91–102. Budapest: Museum of Fine Arts.
- Nerlich, A., A. Zink, H. G. Hagedorn, U. Szeimies, and C. Weyss. 2000. Anthropological and palaeopathological analysis of the human remains from three “Tombs of the Nobles” of the Necropolis of Thebes-west, Upper Egypt. *Anthropologischer Anzeiger* 58(4): 321–343.
- Onstine, S., J. Herrerin, M. Miguel Sanchez, and R. Dinarès. 2021. Women's Health Issues Reflected in Case Studies from Theban Tomb 16. In *The ancient Egyptians and the natural world. Flora, Fauna, and Science*, edited by S. Ikram, J. Kaiser, S. Porcier. Sidestone Press.
- Orfinskaya, O. V. 2019. Pervichnaya restavratsiya tekstilya iz grobnitsy TT 23 [Reconsidering terms: description of textiles from TT 23]. *Egypt and Neighbouring Countries* 4: 32–54.
- Prowse, T. L., and N. C. Lovell. 1996. Concordance of cranial and dental morphological traits and evidence for endogamy in ancient Egypt. *American Journal of Physical Anthropology* 101(2): 237–246. [https://doi.org/10.1002/\(SICI\)1096-8644\(199610\)101:2<237::AID-AJPA8>3.0.CO;2-Z](https://doi.org/10.1002/(SICI)1096-8644(199610)101:2<237::AID-AJPA8>3.0.CO;2-Z)
- Roginskij, Ya. Ya., and M. G. Levin. 1978. *Antropologiya* [Anthropology]. Moscow: Vysshaya shkola.
- Schillaci, M. A., Irish, J. D., Wood, C. C. E. 2009. Further analysis of the population history of ancient Egyptians. *American Journal of Physical Anthropology* 139(2): 235–243. <https://doi.org/10.1002/ajpa.20976>
- Schrader, S., M. Buzon, and J. Irish. 2014. Illuminating the Nubian ‘Dark Age’: a bioarchaeological analysis of dental non-metric traits during the Napatan Period. *Homo* 65(4): 267–280. <https://doi.org/10.1016/j.jchb.2014.05.001>
- Scott G. R., C. G. II Turner, G. C. Townsend, and M. Martinon-Torres. 2018. *The Anthropology of Modern Human Teeth. Dental Morphology and Its Variation in Recent and Fossil Homo sapiens*. Cambridge: Cambridge University Press.
- Scott, G. R., and J. D. Irish. 2017. *Human Tooth Crown and Root Morphology*. Cambridge: Cambridge University Press.
- Solà, R. D., J. Baxarias, V. Fontaine, E. Garcia-Guixé, and J. Herrerin. 2012. Estudio radiológico realizado a 18 momias egipcias a pie de tumba. *Imagen Diagnóstica* 3(1): 11–23.
- Stark, R. J., and T. A. Bács. 2021. Human remains from the TT65 Project, Luxor, Egypt, 2014. *Bioarchaeology of the Near East* 15: 85–97.
- Vasilev, S. V., and S. V. Ivanov. 2008. Antropologicheskie svidetelstva adaptatsionnykh vozmozhnostej drevnikh egiptyan [Anthropological evidence of the adaptive features of the ancient Egyptians]. *Aktualnye napravleniya antropologii: sbornik, posvyashchennyj yubileyu akademika RAN T. I. Alekseev* [Actual trends in anthropology: collected articles dedicated to the anniversary of Academician T. I. Alekseeva], edited by A. P. Buzhilova, M. V. Dobrovolskaya, M. B. Mednikova, 72–76. Moscow: Institut arkeologii.
- Vasilev, S. V. 1999. *Differentsiatsiya plejstotsenovykh gominid* [Pleistocene hominid differentiation]. Moscow: Izdatel'stvo URAO.
- Wahba, A., J. Herrerin, and M. M. Sánchez. 2021. Metastatic carcinoma in human remains from TT110, Luxor, Egypt (ancient Thebes). *Homo: Internationale Zeitschrift für die Vergleichende Forschung am Menschen*, 72(4): 307–316. <https://doi.org/10.1127/homo/2021/1477>

- Zubov, A. A. 1968a. Nekotorye dannye odontologii k probleme evolyutsii cheloveka i ego ras [Some data of odontology to the problem of the Human Evolution and Human Races]. In *Problemy evolyutsii cheloveka i ego ras* [Problems of Human Evolution and Human Races], edited by G. F. Debets, Ya. Ya. Roginskij, 5–123. Moscow: Nauka.
- Zubov, A. A. 1968b. *Odontologiya. Metodika antropologicheskikh issledovaniy* [Odontology. Methodology of Anthropological Research]. Moscow: Nauka.
- Zubov, A. A. 1973. *Etnicheskaya odontologiya* [Ethnic odontology]. Moscow: Nauka.
- Zubov, A. A. 2006. *Metodologicheskoe posobie po antropologicheskomu analizu odontologicheskikh materialov* [Guideline for anthropological analysis of odontological materials]. Moscow: Etno-onlain.
- Zubov, A. A., and N. I. Khaldeeva. 1989. *Odontologiya v sovremennoi antropologii* [Odontology in modern anthropology]. Moscow: Nauka.
- Zubov, A. A., and N. I. Khaldeeva. 1993. *Odontologiya v antropofenetike* [Odontology in anthropogenetics]. Moscow: Nauka.