

## Asst. Prof. NEFİZE EZGİ ALTINIŞIK

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: N-7350-2015

ScopusID: 57197855702

Yoksis Researcher ID: 125705



## Education Information

- I. Doctorate, University of Ostrava, Faculty of Science, Department of Biology and Ecology, Czech Republic 2015 - 2019
- II. Postgraduate, Istanbul University, Institute Of Graduate Studies In Sciences, Fen Fakültesi Bölümü, Turkey 2012 - 2015
- III. Undergraduate, Istanbul University, Faculty Of Science, Moleküler Biyoloji Ve Genetik Bölümü, Turkey 2007 - 2012

## Dissertations

- I. Doctorate, Bridging the Americas and Eurasia: Population History of American Arctic Peoples, University of Ostrava, Faculty of Science, Department of Biology and Ecology, 2019
- II. Postgraduate, Mitochondrial Genome Analysis and Haplo-group Determination in Human Skeletons, Istanbul University, 2015

## Research Areas

Physical Anthropology, Bioinformatics, Genomics, Evolution, Population Genetics

## Academic Titles / Tasks

- I. Assistant Professor, Hacettepe University, Edebiyat Fakültesi, Antropoloji Bölümü, 2024 - Continues
- II. Lecturer PhD, Hacettepe University, Edebiyat Fakültesi, Antropoloji Bölümü, 2019 - 2024
- III. Researcher, Max Planck Institute for Science of Human History, Department of Archaeogenetics, 2018 - 2019
- IV. Researcher, University of Ostrava, Life Science Research Center, 2015 - 2019
- V. Research Assistant, Hatay Mustafa Kemal University, Faculty Of Arts And Sciences, 2014 - 2015

## Courses

- I. Human Biological Diversity, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021
- II. Population Genetics, Undergraduate, 2023 - 2024, 2021 - 2022
- III. Introduction to Anthropology, Undergraduate, 2021 - 2022

## Advising Theses

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- I. Özer F., ALTINIŞIK N. E., Anadolu Orta Çağ – Geç Osmanlı Dönemine Ait Cüzzamlı Bireylerde Mycobacterium leprae Bakterisinin Antik DNA Yöntemleriyle Analizi, Postgraduate, A.SEVKAR(Student), 2023

## Taught Courses And Trainings

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- I. Altınışik N. E., Workshop in Computational Analysis of Ancient Genome, 2019 - 2019

## Published journal articles indexed by SCI, SSCI, and AHCI

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- I. **aMeta: an accurate and memory-efficient ancient metagenomic profiling workflow**  
Pochon Z., Bergfeldt N., Kırđök E., Vicente M., Naidoo T., Van Der Valk T., Altınışik N. E., Krzewińska M., Dalén L., Götherström A., et al.  
GENOME BIOLOGY, vol.24, pp.1-30, 2023 (SCI-Expanded)
- II. **Spatial and temporal heterogeneity in human mobility patterns in Holocene Southwest Asia and the East Mediterranean**  
Koptekin D., Yüncü E., Rodríguez-Varela R., Altınışik N. E., Psonis N., Kashuba N., Yorulmaz S., George R., Kazancı D. D., Kaptan D., et al.  
CURRENT BIOLOGY, vol.0, no.0, pp.1-17, 2022 (SCI-Expanded)
- III. **Science and Politics: The fight for evolution**  
Altınışik N. E.  
ELIFE, vol.11, pp.1-3, 2022 (SCI-Expanded)
- IV. **A genomic snapshot of demographic and cultural dynamism in Upper Mesopotamia during the Neolithic Transition**  
Altınışik N. E., Kazancı D. D., Aydoğın A., Gemici H. C., Erdal Ö. D., Sarıaltın S., Vural K. B., Koptekin D., Gürün K., Sağlıcan E., et al.  
SCIENCE ADVANCES, vol.8, no.44, pp.1-17, 2022 (SCI-Expanded)
- V. **Indian genetic heritage in Southeast Asian populations**  
Changmai P., Jaisamut K., Kampuansai J., Kutanan W., Altınışik N. E., Flegontova O., Inta A., Yüncü E., Boonthai W., Pamjav H., et al.  
Plos Genetics, vol.18, no.2, pp.1-25, 2022 (SCI-Expanded)
- VI. **Collaborate equitably in ancient DNA research and beyond**  
Somel M., Altınışik N. E., Özer F., Ávila-Arcos M. C.  
Nature, vol.600, pp.37, 2021 (SCI-Expanded)
- VII. **Archaeogenetic analysis of Neolithic sheep from Anatolia suggests a complex demographic history since domestication**  
Yurtman E., Özer O., Yüncü E., Dağtaş N. D., Koptekin D., Çakan Y. G., Özkan M., Akbaba A., Kaptan D., Atağ G., et al.  
COMMUNICATIONS BIOLOGY, vol.4, no.1, 2021 (SCI-Expanded)
- VIII. **Human inbreeding has decreased in time through the Holocene.**  
Ceballos F. C., Gürün K., Altınışik N. E., Gemici H. C., Karamurat C., Koptekin D., Vural K. B., Mapelli I., Sağlıcan E., Sürer E., et al.  
Current biology : CB, vol.31, pp.3925-3943, 2021 (SCI-Expanded)
- IX. **Variable kinship patterns in Neolithic Anatolia revealed by ancient genomes**  
Yaka R., Mapelli I., Kaptan D., Doğu A., Chyleński M., Erdal Ö. D., Koptekin D., Vural K. B., Bayliss A., Mazzucato C., et al.  
CURRENT BIOLOGY, vol.31, no.11, pp.2455-2486, 2021 (SCI-Expanded)

- X. **Palaeo-Eskimo genetic ancestry and the peopling of Chukotka and North America**  
Flegontov P., Altinisik N. E., Changmai P., Rohland N., Mallick S., Adamski N., Bolnick D. A., Broomandkhoshbacht N., Candilio F., Culleton B. J., et al.  
NATURE, vol.570, pp.236-253, 2019 (SCI-Expanded)
- XI. **Archaeogenomic analysis of the first steps of Neolithization in Anatolia and the Aegean**  
Kilinc G. M., Koptekin D., Atakuman Ç., Sumer A. P., Donertas H. M., Yaka R., Bilgin C. C., Büyükkarakaya A. M., Baird D., Altinisik E., et al.  
PROCEEDINGS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES, vol.284, 2017 (SCI-Expanded)
- XII. **Genomic study of the Ket: a Paleo-Eskimo-related ethnic group with significant ancient North Eurasian ancestry**  
Flegontov P., Changmai P., Zidkova A., Logacheva M. D., Altinisik N. E., Flegontova O., Gelfand M. S., Gerasimov E. S., Khrameeva E. E., Konovalova O. P., et al.  
SCIENTIFIC REPORTS, vol.6, 2016 (SCI-Expanded)

## Articles Published in Other Journals

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- I. **İrk Kavramına Bilimsel Çerçveden Bakış**  
Altınışik N. E., Taşkent Ö.  
Madde, Diyalektik ve Toplum, vol.1, no.3, pp.189-196, 2018 (Peer-Reviewed Journal)
- II. **Adaptif Melezlenme Homo Sapiens in Dünya Yayılışında Etkileri**  
ALTINIŞIK N. E.  
Toplum ve Hekim, vol.31, pp.295-298, 2016 (Peer-Reviewed Journal)
- III. **Modern İnsan Popülasyonlarında Arkaik İzler**  
ALTINIŞIK N. E.  
Kebikeç, vol.20, 2016 (Peer-Reviewed Journal)

## Books & Book Chapters

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- I. **People of Anatolia: Past, Current and Future Research in the Biological Anthropology of Türkiye**  
Aydoğan A., Altınışik N. E., Gemici H. C., Atakuman Ç., Özer F., Somel M.  
in: A genomic history of the Neolithisation in Anatolia: preliminary insights, Benjamin Irvine, Yılmaz Selim Erdal, Lutgarde Vandeput, Editor, The British Institute of Archaeology at Ankara , London, pp.70-80, 2024
- II. **From Bones to Genomes: Current Research on the Population History of Prehistoric Anatolia**  
Kazancı D. D., Altınışik N. E., Aydoğan A., Özer F., Sürer E., Atakuman Ç., Somel M., Erdal Y. S.  
in: The Archaeology of Anatolia, Volume IV: Recent Discoveries (2018–2020), Sharon R. Steadman, Gregory McMahon, Editor, Cambridge Scholars Publishing , Cambridge, pp.355-371, 2021
- III. **Ancient genomics in Neolithic Central Anatolia and Çatalhöyük**  
Yaka R., Doğu A., Kaptan D., Dağtaş N. D., Chyleński M., Vural K. B., Altınışik N. E., Mapelli I., Koptekin D., Karamurat C., et al.  
in: Peopling the Landscape of Çatalhöyük: Reports from the 2009-2017 Seasons, Ian Hodder, Editor, The British Institute of Archaeology at Ankara , London, pp.1-11, 2021

## Refereed Congress / Symposium Publications in Proceedings

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- I. **Human Mobility in the first millennium AD of Asia Minor: An Archaeogenomic Approach**  
Altınışik N. E.  
93rd Annual Meeting of the American Association of Biological Anthropologists, California, United States Of

America, 20 - 23 March 2024, vol.183, pp.3

- II. **İnsan Hareketliliğinin İzleri: Roma İmparatorluğu'nda Popülasyon Yapısı**  
Altınışik N. E.  
VIII. Biyolojik Antropoloji Sempozyumu, Ankara, Turkey, 26 - 27 October 2023, pp.2
- III. **Intramural burials in Neolithic Anatolia: what do they tell about social organisation**  
Somel M., Altınışik N. E., Erdal Y. S., Atakuman Ç., Özer F.  
Kinship, Sex, and Biological Relatedness The contribution of archaeogenetics to the understanding of social and biological relations, Halle, Germany, 6 - 08 October 2022, pp.137-148
- IV. **New Insights into the Population Structure of Pre-Pottery Neolithic Upper Mesopotamia**  
ALTINIŞIK N. E., Yüncü E., Kazancı D. D., Vural K. B., ERDAL Ö. D., ÖZER F., ERDAL Y. S., Erim Özdoğan A., SOMEL M.  
SMBE 2023, Ferrara, Italy, 22 - 27 July 2023
- V. **Population History of South Caucasus from Neolithic to Bronze Age and its Long-Term Interactions with Anatolian Peninsula**  
Altınışik N. E., Özer F., Sevkari A., Somel M., Erdal Y. S.  
Urartu ve Ötesi Sempozyumu, Van, Turkey, 7 - 09 September 2022, pp.1
- VI. **Neolitik Dönem Yukarı Mezopotamya Tarihine Antik DNA Perspektifinden Bir Bakış: Çayönü Tepesinden İlk Genomik Bulgular**  
Altınışik N. E.  
42. Uluslararası Kazı, Araştırma ve Arkeometri Sempozyumu, Denizli, Turkey, 23 - 27 May 2022
- VII. **Biological justification of stratification: race and other dimensions of rank order**  
Akbay G., Altınışik N. E., Somel M.  
Philosophy and History of Race Workshop, 09 August 2021 - 11 January 2023, pp.6-7
- VIII. **First Genomic Insights into Pre-pottery Neolithic of Upper Mesopotamia**  
ALTINIŞIK N. E., Aydoğan A., Kazancı D. D., Vural K. B., Koptekin D., Özkan M., Gemici H. C., Karamurat C., ERDAL Ö. D., Götherström A., et al.  
9TH INTERNATIONAL SYMPOSIUM ON BIOMOLECULAR ARCHAEOLOGY, Toulouse, France, 1 - 04 June 2021
- IX. **Benchmarking kinship estimation tools for ancient genomes using pedigree simulations**  
Çetin M., Aktürk Ş., Mapelli I., Yaka R., Çokoğlu S., Zakaria D., Ceballos F., Ghalichi A., ALTINIŞIK N. E., Koptekin D., et al.  
13th The International Symposium on Health Informatics and Bioinformatics (HIBIT 2020), İstanbul, Turkey, 22 - 23 October 2020
- X. **Traces of human adaptive evolution in Mediterranean region**  
FİDAN F. R., Fer E., ALTINIŞIK N. E., Gökçümen Ö., SOMEL M.  
The International Symposium on Health Informatics and Bioinformatics, İstanbul, Turkey, 22 - 24 October 2020
- XI. **Kuzey Amerika ve Kuzeydoğu Asya Halklarının İlişkisinin Genomik Açidan İncelenmesi**  
ALTINIŞIK N. E., Flegontov P., Changmai P., Schiffels S.  
VII. Biyolojik Antropoloji Sempozyumu, Ankara, Turkey, 23 - 25 October 2019
- XII. **Tracing the origin and expansion of the Turkic and Hunnic confederations**  
Flegontov P., ALTINIŞIK N. E., Jeong C., Schiffels S., M. D. F., E. P. K., Voyakin D., Mende B. G., Szécsényi-Nagy A., Csiky G., et al.  
8th International Symposium on Biomolecular Archaeology, Jena, Germany, 18 - 21 September 2018
- XIII. **Indian genetic heritage in Southeast Asian populations**  
Changmai P., ALTINIŞIK N. E., Yüncü E., Flegontova O., Kampuansai J., Kutanan W., Pamjav H., Schiffels S., Reich D., Flegontov P.  
8th International Symposium on Biomolecular Archaeology, Jena, Germany, 18 - 21 September 2018
- XIV. **Comparing Alternative Hypotheses on the Peopling of the American Arctic**  
Altınışik N. E., Changmai P., Reich D., Schiffels S., Flegontov P.  
II Joint Congress on Evolutionary Biology, Montpellier, France, 19 - 22 August 2018
- XV. **Modelling the origin and expansion of Turkic speakers**  
ALTINIŞIK N. E., Flegontov P.  
Ecology and Evolutionary Biology Symposium, Turkey, İzmir, Turkey, 18 - 20 July 2018

**XVI. A New Model for Peopling of the American Arctic**

ALTINIŞIK N. E., Flegontov P.

Ecology and Evolutionary Biology Symposium, Turkey, İstanbul, Turkey, 11 - 13 July 2017

**XVII. Rare variants and autosomal haplotypes reveal the Siberian roots of North American Na Dene populations**

Flegontov P., ALTINIŞIK N. E., Changmai P., Vajda E. J., Krause J., Schiffels S.

DNA Polimorphisms in Human Populations, Paris, France, 7 - 10 December 2016

## Episodes in the Encyclopedia

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**I. Antropoloji Sözlüğü**

Altınışik N. E.

Islık Yayınları, pp.23-24, 2020

## Supported Projects

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- I. KILINÇ G. M., ERDAL Y. S., ÖZER F., YET İ., ALTINIŞIK N. E., Project Supported by Higher Education Institutions, Obezite ve Tip 2 Diyabet ile ilişkili genetik yapının Anadolu'da son 10000 yıl içindeki değişim dinamiklerinin antik DNA ve popülasyon genetiği yaklaşımları ile incelenmesi (TUBİTAK ARDEB 121Z025 No'lu 3501 Projesi ile Yüksek Bütçe Başvuru), 2023 - Continues
- II. Somel M., Özer F., Altınışik N. E., Erdal Y. S., Kırdök E., TUBİTAK Project, Leprosy in Anatolia: a paleopatological and archaeogenomic study, 2023 - 2026
- III. Erdal Y. S., Altınışik N. E., Tekinalp V. M., Koruyucu M. M., Kazancı D. D., Vural K. B., Özer F., Kılınç G. M., Somel M., TUBİTAK Project, Nicaean People and Byzantine Warriors: A Bioarchaeological Study (İBİS), 2022 - 2025
- IV. Özer F., Erdal Y. S., Kazancı D. D., Vural K. B., Altınışik N. E., Kılınç G. M., Somel M., TUBİTAK Project, Anatolian Caucasian Relations from the Neolithic to the Middle Ages: An Archaeogenomic Study on the Human Remains of Anatolia and Azerbaijan, 2022 - 2025
- V. Altınışik N. E., Erdal Y. S., Korkut T., Vural K. B., Kazancı D. D., Özer F., Somel M., TUBİTAK Project, Investigation of the Population History of the Roman Era Coastal and Inland Societies in Anatolia from an Archaeogenomics Perspective, 2021 - 2024
- VI. Somel M., Altınışik N. E., Özer F., Erdal Y. S., Atakuman Ç., Sürer E., H2020 Project, Mapping The Neolithic Expansion In The Mediterranean: A Scientific Collective To Promote Archaeogenomics And Evolutionary Biology Research In Turkey, 2021 - 2024
- VII. Somel M., Altınışik N. E., Özer F., Erdal Y. S., H2020 Project, Archaeogenomic analysis of genetic and cultural interactions in Neolithic Anatolian societies, 2018 - 2024
- VIII. Altınışik N. E., Flegontov P., Other International Funding Programs, Archaeogenetic Study of Human Populations in Mainland Southeast Asia, 2019 - 2021
- IX. Altınışik N. E., Elias M., Other International Funding Programs, New research directions at the Life Science Research Centre, 2015 - 2017

## Metrics

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Publication: 37

Citation (WoS): 216

Citation (Scopus): 258

H-Index (WoS): 7

H-Index (Scopus): 7

## Invited Talks

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- I. İnsanın Evrimsel Yolculuğunun Genomdaki İzleri, Workshop, İzmir Yüksek Teknoloji Enstitüsü, Turkey, October 2019
- II. Kuzey Amerika yerlilerinin populasyon tarihi, Seminar, Hacettepe Üniversitesi, Turkey, February 2018