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International Researcher IDs

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Education Information

Post Doctorate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Biology, Turkey 2012 - 2014

Doctorate, University of Illinois at Chicago, Arts and Sciences, Department of Biology, United States Of America 2000 - 2010

Postgraduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Biology, Turkey 1996 - 1999

Dissertations

Doctorate, Genetic consequences of conservation management of Anacapa Island deer mice and Illinois shiners., University of Illinois at Chicago, 2010

Postgraduate, A preliminary study on genetic differentiation among Turkish brown trout (*Salmo trutta* L.) populations as revealed by RFLP analysis of PCR amplified mitochondrial DNA segments, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Biology, 1999

Research Areas

Social Sciences and Humanities, Life Sciences, Natural Sciences

Published journal articles indexed by SCI, SSCI, and AHCI

I. The Population History of Domestic Sheep Revealed by Paleogenomes

Kaptan D., Atag G., VURAL K. B., Miranda P. M., Akbaba A., Yuncu E., Buluktaev A., Abazari M. F., Yorulmaz S., KAZANCI D. D., et al.

MOLECULAR BIOLOGY AND EVOLUTION, vol.41, no.10, 2024 (SCI-Expanded)

II. The first complete genome of the extinct European wild ass (*Equus hemionus hydruntinus*)

Özkan M., Gürün K., Yüncü E., Vural K. B., Atağ G., Akbaba A., Fidan F. R., Sağlıcan E., Altınışık N. E., Pawłowska K., et al.

MOLECULAR ECOLOGY, vol.33, no.14, pp.1-19, 2024 (SCI-Expanded)

- III. **Ancient Sheep Genomes Reveal Four Millennia of North European Short-Tailed Sheep in the Baltic Sea Region**
Larsson M. N. A., Miranda P. M., Pan L., VURAL K. B., Kaptan D., Soares A. E. R., Kivikero H., Kantanen J., SOMEL M., ÖZER F., et al.
GENOME BIOLOGY AND EVOLUTION, vol.16, no.6, 2024 (SCI-Expanded)
- IV. **Population genomic history of the endangered Anatolian and Cyprian mouflons in relation to worldwide wild, feral and domestic sheep lineages**
Atağ G., Kaptan D., Yüncü E., Vural K. B., Mereu P., Pirastru M., Barbato M., Leoni G. G., Güler M. N., Er T., et al.
GENOME BIOLOGY AND EVOLUTION, vol.16, no.5, pp.1-19, 2024 (SCI-Expanded)
- V. **The diversity of postmarital residence patterns during the Holocene**
Sevkar A., Dogu A., Gemici H. C., Karamurat C., Aydogan A., Kaptan D., SÜRER E., ERDAL Y. S., Atakuman C., ÖZER F., et al.
AMERICAN JOURNAL OF BIOLOGICAL ANTHROPOLOGY, pp.164, 2024 (SCI-Expanded)
- VI. **Archaeogenomic insights into Anatolia-Caucasus interactions since Neolithic**
ÖZER F.
AMERICAN JOURNAL OF BIOLOGICAL ANTHROPOLOGY, pp.130, 2024 (SCI-Expanded)
- VII. **Comparison and optimization of protocols and whole-genome capture conditions for ancient DNA samples.**
Yaka R., Lagerholm V. K., Linderholm A., Özer F., Somel M., Götherström A.
BioTechniques, vol.76, pp.221-228, 2024 (SCI-Expanded)
- VIII. **Spatial and temporal heterogeneity in human mobility patterns in Holocene Southwest Asia and the East Mediterranean**
Koptekin D., Yüncü E., Rodríguez-Varela R., Altınışık 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)
- IX. **A genomic snapshot of demographic and cultural dynamism in Upper Mesopotamia during the Neolithic Transition**
Altınışık N. E., Kazancı D. D., Aydoğan A., Gemici H. C., Erdal Ö. D., Sarıaltun S., Vural K. B., Koptekin D., Gürün K., Sağlıcan E., et al.
SCIENCE ADVANCES, vol.8, no.44, pp.1-17, 2022 (SCI-Expanded)
- X. **Collaborate equitably in ancient DNA research and beyond**
Somel M., Altınışık N. E., Özer F., Ávila-Arcos M. C.
Nature, vol.600, pp.37, 2021 (SCI-Expanded)
- XI. **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)
- XII. **Human inbreeding has decreased in time through the Holocene.**
Ceballos F. C., Gürün K., Altınışık 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)
- XIII. **Demography of swordfish (*Xiphias gladius* Linneus) populations from the coasts of Turkey, based on mitochondrial DNA and microsatellites**
Yuncu E., Acan S. C., ONAR V., KARAKULAK F. S., GÖKOĞLU M., Alicli T. Z., Chiriboga F., Togan I., Ozer F.
JOURNAL OF FISH BIOLOGY, vol.99, no.1, pp.37-48, 2021 (SCI-Expanded)
- XIV. **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)
- XV. **Y-Chromosome Polymorphisms in 12 Native, Karagul, Karacabey Merino Breeds from Turkey and Anatolian Mouflon (*Ovis gmelinii anatolica*)**

Parmaksiz A., Oymak A., Yuncu E., Demirci S., KOBAN BAŞTANLAR E., Unal E. O., Togan I., Ozer F.
KAFKAS UNIVERSITESI VETERINER FAKULTESI DERGISI, vol.24, no.6, pp.821-828, 2018 (SCI-Expanded)

- XVI. **The Demographic Development of the First Farmers in Anatolia**
Kilinc G. M., Omrak A., Ozer F., Gunther T., BÜYÜKKARAKAYA A. M., Bicakci E., Baird D., Donertas H. M., Ghalichi A., Yaka R., et al.
CURRENT BIOLOGY, vol.26, no.19, pp.2659-2666, 2016 (SCI-Expanded)
- XVII. **Growth hormone (GH), prolactin (PRL), and diacylglycerol acyltransferase (DGAT1) gene polymorphisms in Turkish native cattle breeds**
Unal E. O., Kepenek E. S., Dinc H., Ozer F., Sonmez G., Togan I. Z., Soysal M. I.
TURKISH JOURNAL OF ZOOLOGY, vol.39, no.5, pp.734-748, 2015 (SCI-Expanded)
- XVIII. **Mitochondrial DNA Diversity of Modern, Ancient and Wild Sheep (*Ovis gmelinii anatolica*) from Turkey: New Insights on the Evolutionary History of Sheep**
Demirci S., KOBAN BAŞTANLAR E., Dagtas N. D., PİŞKİN E., Engin A., Ozer F., Yuncu E., Dogan S. A., Togan I.
PLOS ONE, vol.8, no.12, 2013 (SCI-Expanded)
- XIX. **Genetic evaluation of remnant and translocated shiners, *Notropis heterodon* and *Notropis heterolepis***
Ozer F., Ashley M. V.
JOURNAL OF FISH BIOLOGY, vol.82, no.4, pp.1281-1296, 2013 (SCI-Expanded)
- XX. **Genetic impacts of *Anacapa* deer mice reintroductions following rat eradication**
Ozer F., Gellerman H., Ashley M. V.
MOLECULAR ECOLOGY, vol.20, no.17, pp.3525-3539, 2011 (SCI-Expanded)
- XXI. **Low Genetic Differentiation across Three Major Ocean Populations of the Whale Shark, *Rhincodon typus***
Schmidt J. V., Schmidt C. L., Ozer F., Ernst R. E., Feldheim K. A., Ashley M. V., Levine M.
PLOS ONE, vol.4, no.4, 2009 (SCI-Expanded)

Books

- I. **People of Anatolia: Past, Current and Future Research in the Biological Anthropology of Türkiye**
Aydoğan A., Altınışık 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 Vandepuit, 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., ALTINIŞIK 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), Steadman Sharon R., McMahon Gregory, 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., Chyleski M., Vural, K. B., ALTINIŞIK N. E., Mapelli I., Koptekin D., Karamurat C., et al.
in: Peopling the Landscape of Çatalhöyük: Reports from the 2009-2017 Seasons, Hodder, Ian, Editor, British Institute at Ankara, Londrina, pp.395-405, 2021

Papers Published in Refereed Scientific Meetings

- I. **Intramural burials in Neolithic Anatolia: what do they tell about social organisation**
Somel M., Altınışık 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
- II. **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

III. Population History of South Caucasus from Neolithic to Bronze Age and its Long-Term Interactions with Anatolian Peninsula

Altınışik N. E., Özer F., Sevkar A., Somel M., Erdal Y. S.

Urartu ve Ötesi Sempozyumu, Van, Turkey, 7 - 09 September 2022, pp.1

IV. An archaeogenetic perspective into sheep demographic history by analysing Anatolian Neolithic sheep

ÖZER F., KAPTAN D., VURAL K. B., ATAĞ G., YÜNCÜ E., SOMEL M.

CONGRESS OF EUROPEAN SOCIETY FOR EVOLUTIONARY BIOLOGY, PRAG, Czech Republic, 14 - 19 August 2022

V. 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

VI. 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

Supported Projects

KILINÇ G. M., YET İ., ERDAL Y. S., ÖZER F., Project Supported by Higher Education Institutions, KonakPatojen İlişkinde Antik Holobiyomlarla Bakış Dış Çürümesi ile İlişkili Genetik Yapının ve İnsan Ağız Mikrobiyotasının Temporal Değişiminin ve Etkileşiminin Antik DNA ile Araştırılması (TUBİTAK ARDEB 123Z321 Nolu 3501 Projesi ile Yüksek Bütçe Başvuru), 2024 - Continues

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

Kazancı D. D., Vural K. B., Şahoğlu V., Erdal Ö. D., Altınışik N. E., Özer F., Somel M., Erdal Y. S., TUBİTAK Project, Arkeogenomik Yaklaşımlarla Tunç Çağı Batı Anadolu Populasyon Dinamiklerinin Araştırılması, 2024 - 2027

Kilinç G. M., Kirdök E., Erdal Y. S., Özer F., Yet İ., TUBİTAK Project, Konak-Patojen İlişkinde Antik Holobiyomlarla Bakış: Dış Çürümesi ile İlişkili Genetik Yapının ve İnsan Ağız Mikrobiyotasının Temporal Değişiminin ve Etkileşiminin Antik DNA ile Araştırılması, 2023 - 2026

Somel M., Özer F., Altınışik N. E., Erdal Y. S., Kirdök E., TUBİTAK Project, Leprosy in Anatolia: a paleopatological and archaeogenomic study, 2023 - 2026

ALTINIŞIK N. E., ERDAL Y. S., ÖZER F., Project Supported by Higher Education Institutions, "Anadoluda Roma Dönemi Kıyı ve İç Kesim Toplumlarının Popülasyon Tarihinin Arkeogenomik Açısından İncelenmesi" Başlıklı ve 121Z485 kodlu TUBİTAK 1001 Projesine Ek Bütçe Desteği, 2023 - 2025

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

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

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

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

KUCUK BALOGLU F., ERDAL Y. S., ÖZER F., TÜBİTAK Project, Determination of DNA preservation in human and animal bones from Anatolian Neolithic by pre-screening method based on FTIR spectroscopy, 2021 - 2023

Özer F., Engin A., Bıçakçı E., Gündem C. Y., TÜBİTAK Project, Anadolu'da At Arkeogenomiği ve Popülasyon Demografileri, 2018 - 2021

Metrics

Publication: 31

Citation (WoS): 295

Citation (Scopus): 436

H-Index (WoS): 7

H-Index (Scopus): 9

Congress and Symposium Activities

30th EAA Annual Meeting , Attendee, Rome, Italy, 2024

AABA 93rd Annual Meeting, Attendee, California, United States Of America, 2024

Society for Molecular Biology and Evolution 2023 Annual Congress, Attendee, Ferrara, Italy, 2023

Congress of The European Society for Evolutionary Biology (ESEB2022), Attendee, Praha, Czech Republic, 2022

Scholarships

TÜBİTAK 2218 Yurt içi doktora sonrası araştırma bursu, TÜBİTAK, 2012 - 2014