

NIHAN DILSAD DAGTAS

Born 1986 in Ankara, Turkey
Languages Turkish (native), English (fluent), German (beginner)
E-mail dagtas.nd@gmail.com

Appointments

2018 – 19 Laboratory Manager, Laboratories of Molecular Anthropology and Microbiome Research, University of Oklahoma
2017 – 18 Research Technician, Laboratories of Molecular Anthropology and Microbiome Research, University of Oklahoma
2012 Visiting scholar (under Dr. M. Hofreiter), Department of Biology, University of York
2009 – 17 Research student, Department of Biology, Middle East Technical University
2009 Intern, Institute of Forensic Medicine, Turkish Ministry of Justice
2009 Intern, Institute of Marine Sciences, Middle East Technical University

Education

2021 - PhD in Anatomy and Anthropology, Tel Aviv University
2013 MSc in Biology, Middle East Technical University
2010 BSc in Biology (honors), Middle East Technical University

Awards/Scholarships

2016 Erasmus+ Traineeship (under Dr. A. Götherström), Department of Archaeology and Classical Studies, Stockholm University
2013 Erasmus+ Study Abroad Scholarship for 1 semester, Aarhus University
2012 Best Student Poster Award at the 18th Congress of the European Anthropological Association
2011 – 17 The Scientific and Technological Research Council of Turkey Scholarship through projects 111T464 and 114Z356

Publications

Peer-reviewed papers

2021 Yurtman E, Ozer O, Yuncu E, **Dagtas ND**, ..., Somel M, Togan I, Ozer F. [Archaeogenetic analysis of Neolithic sheep from Anatolia suggests a complex demographic history since domestication](#), *Communications Biology*, 4, 1279.

2021 Yaka R, Mapelli I, Dogu A, Chylenski M, Kaptan D, Erdal OD, Koptekin D, Vural KB, Bayliss A, Mazzucato C, Fer E, Cokoglu SS, Lagerholm VK, Krzewinska M, Karamurat C, Gemici HC, **Dagtas ND**, ..., Gotherstrom A, Ozer F, Somel M. [Variable kinship patterns in Neolithic Anatolia revealed by ancient genomes](#), *Current Biology*, 31,11 2455-2468.e18.

2021 Grindle ED, Rick TC, **Dagtas ND**, Austin R, Wellman H, Gobalet K, Hofman CA. [Green or white? Morphology, ancient DNA and the identification of archaeological North American Pacific coast sturgeon](#), *Journal of Archaeological Science: Reports*, 36, 102887.

2020 Mychajliw AM, Rick TC, **Dagtas ND**, Erlandson JM, Culleton B, Buckley M, Hofman CA. [Biogeographic problem-solving reveals the Late Pleistocene translocation of a short-faced bear to the California Channel Islands](#), *Scientific Reports*, 10, 15172.

2020 Wellman HP, Austin RM, **Dagtas ND**, Moss ML, Rick TC, Hofman CA. [Archaeological mitogenomes illuminate the historical ecology of sea otters \(*Enhydra lutris*\) and the viability of reintroduction](#), *Proc. R. Soc. B*. 287: 20202343.

2016 Kilinc GM, Omrak A, Ozer F, Gunther T, Buyukkarakaya AM, Bicakci E, Baird D, Donertas HM, Ghalichi A, Yaka R, Koptekin D, Acan SC, Parvizi P, Krzewinska M, Daskalaki EA, Yuncu E,

- Dagtas ND**, ..., Stora J, Jakobsson M, Gotherstrom A. [The demographic development of the first farmers in Anatolia](#), *Current Biology*, 26, 2659–2666.
- 2014 Ozkan Unal E, Soysal MI, Yuncu E, **Dagtas ND**, Togan I. [Microsatellite based genetic diversity among the three water buffalo \(*Bubalus bubalis*\) populations in Turkey](#), *Arch. Anim. Breed.*, 57, 8.
- 2013 [Demirci S, Bastanlar EK, **Dagtas ND**]^{1st}, ..., Yuncu E, Dogan SA, Togan I. [Mitochondrial DNA diversity of modern, ancient and wild sheep \(*Ovis gmelinii anatolica*\) from Turkey: New insights on the evolutionary history of sheep](#), *PLOS ONE* 8(12): e81952.

Book chapters/thesis/technical reports

- 2021 Yaka R, Dogu A, Kaptan D, **Dagtas ND**, ..., Ozer F, Atakuman C, Somel M. Ancient Genomics in Neolithic Central Anatolia and Catalhoyuk, *Peopling the Landscape of Catalhoyuk: Reports from the 2009-2017 Seasons (Catalhoyuk Research Project Series 13)*, Ed. Ian Hodder, British Institute at Ankara, London, pp. 395-405.
- 2020 Wright S, Singleton R, Hughes K, Rayfield K, Honap T, **Dagtas ND**, Monroe C, Wu S, Huang L, Hofman CA. Sequencing Dental Calculus and Dentin from Histria, Romania: Genetic Analyses of Dental Calculus and Teeth from Roman Burial Contexts 2nd-6th Century, Report submitted to Adam Rabinowitz (U. Texas, Austin) July.
- 2018 Hofman CA, **Dagtas ND**, Austin RM. Species Identification of Sturgeon Samples from the Par-Tee Site (35CLT20) Seaside, Oregon, Report submitted to Torben Rick (NMNH) August.
- 2015 Ozer F, **Dagtas ND**, Somel M, Togan I. Ancient DNA, *Catalhoyuk Archive Report*, pp. 115-117.
- 2013 **Dagtas ND**. A Short Fragment of Ancient DNA and Its Use in Determination of Sheep Mitochondrial DNA Haplogroups in Southeast Anatolia, *Master's Thesis*, Middle East Technical University Department of Biology, Ankara.
- 2012 Togan I, **Dagtas ND**. Planning an Ancient DNA Study for the Native Sheep of Turkey (in Turkish), *Two Eminent Contributors to Archaeometry in Turkey: To Honour of Prof.Dr. Ay Melek Ozer and Prof.Dr. Sahinde Demirci*, Eds. Ali Akin Akyol-Kameray Ozdemir, Homer Kitabevi, Istanbul, pp. 359-368.

Workshops/Professional Training

- 2019 Introduction to Project Management, University of Oklahoma Human Resources, Norman, OK, USA, 4 September
- 2019 Manager's Guide to Coaching in the Workplace, University of Oklahoma Human Resources, Norman, OK, USA, 17 January
- 2018 Effective Communication, University of Oklahoma Human Resources, Norman, OK, USA, 14 March
- 2016 1st Evolutionary Genomics Winter School, Ankara, Turkey, 1-5 February
- 2014 3rd Programming for Evolutionary Biology Course, Leipzig, Germany, 21 March-6 April
- 2013 Single Nucleotide Polymorphism (SNP) and Other Types of Molecular Markers: Methods and Applications Workshop, Tekirdag, Turkey, 1-2 October
- 2013 Workshop on Quantitative Evolutionary Biology, Sirince-Izmir, Turkey, 9-15 September

Conference Presentations

- 2019 *Tracking animal biographies through ancient DNA in Classic Mesoamerica*. Poster presented at the 99th American Society of Mammalogists Annual Meeting, Washington, DC, 28 June-2 July
- 2019 *California Channel Islands micromammals: a story of invasion and extinction*. Poster presented at the 84th Society for American Archaeology Annual Meeting, Albuquerque, NM, USA, 10-14 April

- 2019 *Ancient mitogenomes from Oregon sea otters (*Enhydra lutris*): Genetic and archaeological contributions to the historical ecology of an extirpated population.* 84th Society for American Archaeology Annual Meeting, Albuquerque, NM, USA, 10-14 April
- 2019 *Biomolecular preservation in dental calculus from the Teotihuacan ritual landscape.* 84th Society for American Archaeology Annual Meeting, Albuquerque, NM, USA, 10-14 April
- 2018 *An ancient DNA study on sheep domestication in Central and Western Anatolia.* Poster presented at the 8th International Symposium on Biomolecular Archaeology, Jena, Germany, 18-21 September
- 2018 *The application of historic dental calculus for reconstructing killer whale ecotypes.* Poster presented at the 8th International Symposium on Biomolecular Archaeology, Jena, Germany, 18-21 September
- 2018 *Ancient mtDNA analyses of sheep domestication process on the way from its domestication center in Southeast Anatolia to West Anatolia.* 13th ICAZ International Conference, Ankara, Turkey, 2-7 September
- 2018 *Reconstructing the killer whale oral microbiome.* Poster presented at the Society for Molecular Biology and Evolution, Yokohama, Japan, 8-12 July
- 2018 *Demystifying Teotihuacan through the microbiome.* Poster presented at the Oklahoma Archaeology Conference, Norman, OK, USA, 1-3 March
- 2017 *Understanding migration of sheep from its domestication center in Southeast Anatolia to West Anatolia by using ancient mtDNA: Preliminary results.* Poster presented at the 4th Ecology and Evolutionary Biology Symposium Turkey, Istanbul, Turkey, 11-13 July
- 2017 *Mobility in Neolithic Central Anatolia: a comparison of dental morphometrics and aDNA.* Poster presented at the 86th Annual Meeting of the American Association of Physical Anthropologists, New Orleans, LA, USA, 19-22 April
- 2016 *First ancient genomic data from Anatolian sheep.* Poster presented at the 3rd Ecology and Evolutionary Biology Symposium Turkey, Ankara, Turkey, 31 August – 1 September
- 2015 *Genetic analysis of D-loop and cyt-b region of mtDNA sequence in Anatolian water buffaloes (*Bubalus bubalis*).* Poster presented at the 8th Asian Buffalo Congress, Istanbul, Turkey, 21-25 April
- 2014 *Mitochondrial DNA haplogroups in unraveling the evolutionary history of sheep from Southeast Anatolia.* Poster presented at the 12th International Council for Archaeozoology Conference, San Rafael, Mendoza, Argentina, 22-27 September
- 2014 *An ancient DNA (aDNA) laboratory established in Turkey, first projects, first results (in Turkish).* 36th International Symposium of Excavations, Surveys and Archaeometry, Gaziantep, Turkey, 2-6 June
- 2013 *Genetic diversity of native sheep in Turkey: recent results, new questions.* 6th International Balkan Animal Science Conference (BALNIMALCON), Tekirdag, Turkey, 3-5 October
- 2013 *Analysis of genetic diversity and relationships in Turkish water buffalo breeds using microsatellite markers.* Poster presented at the 6th International Balkan Animal Science Conference (BALNIMALCON), Tekirdag, Turkey, 3-5 October
- 2012 *A preliminary study on sheep ancient mitochondrial DNA.* Department of Archaeometry Seminars, Middle East Technical University, Ankara, Turkey, 14 December
- 2012 *Ancient DNA isolation and mitochondrial DNA haplogroup determination from sheep samples unearthed from Oylum Hoyuk, Kilis-Turkey: a preliminary study.* Poster presented at the 18th Congress of the European Anthropological Association, Ankara, Turkey, 3-6 September

Field Experience

2010-17 Skeletal material sampler, Excavation sites (in Turkey): Komana, Boncuklu Hoyuk, Salattepe, Arslantepe, Oylum Hoyuk, Tepecik-Ciftlik, Catalhoyuk; (in N. Cyprus): Akanthou/Tatlisu

Popular Journal/Blog Articles and Translations

2020 **Dagtas ND.** Turkish translation of the [Climate Change The Board Game](#), by Dr. Michela Leonardi, University of Cambridge, 4 August.

2020 **Dagtas ND.** [Is European bison really back?](#), *The American Genetic Association Blog*, 15 July.

2016 **Dagtas ND.** Ancient DNA and human migrations (in Turkish), *Aktuel Arkeoloji*, 54, pp. 22-25.

2015 **Dagtas ND.** Ancient DNA (in Turkish), *Aktuel Arkeoloji*, 45, pp. 18-20.

Professional Memberships

Since 2015 Ecology and Evolutionary Biology Society of Turkey

2020 – Publicity and Bulletin Committee member

2017 – 19 Audit Committee member

2015 Organizing Committee member for the 2nd Ecology and Evolutionary Biology Symposium Turkey at METU, Ankara