

Oleksiy (Alexey) Yanchukov Curriculum Vitae

Citizenship - UKRAINE

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Education Bachelors+MSc (Specialist's Diploma)

Diploma Specialist in Biology. Ivan Franko National University of Lviv, Ukraine (20/06/1999)

Additional MSc

Lviv State University of Forestry and Technology, Ukraine (5/06/2000)

PhD (Cand.Sci.)

Schmalhausen Institute of Zoology of National Academy of Sciences of Ukraine (09/04/2003)

Employment:

2015 — Assistant Professor at Zonguldak Bülent Ecevit University, Türkiye

01/01/2014 – 27/11/2015 Postdoctoral scientist at the Institute of Vertebrate Biology, Academy of Sciences of the Czech Republic

25/10/2009 – 31/12/2013 Associate Specialist II at the department of Ecology, Evolution and Marine Biology, University of California Santa Barbara, USA

25/06/2006 – 25/06/2009 Postdoctoral researcher at the Allan Wilson Centre for Molecular Ecology and Evolution, Department of Zoology, University of Otago, New Zealand

01/01/2003 – 01/05/2006 Research Scientist at the Schmalhausen Institute of Zoology of National Academy of Sciences of Ukraine

01/01/2004 – 18/12/2004 Visiting fellowship from NATO/FCO, administered by the Royal Society of London in the Institute of Evolutionary Biology, University of Edinburgh, UK

01/11/2003-31/11/2003 Queen Jadwiga postdoctoral Scholarship, Jagiellonian University, Kraków, Poland

Publications:

1. Rusin, M., Çetintaş, O., Ghazali, M., Sandor, A. and A. *Yanchukov*. (2024). Underworld: Evolution of blind mole rats in Eastern Europe. *Mammalian Biology*. Accepted
2. Erdolu, M., Şahin, M. K., Somel, M., & *Yanchukov*, A. (2023). Single hybrid population but multiple parental individuals at the origin of parthenogenetic rock lizards *Darevskia sapphirina* and *D. bendimahiensis* Schmidtler, & Eiselt Darevsky (1994) endemic to the area of Lake Van in East Turkey. *Molecular Phylogenetics and Evolution*, 189, 107925.

3. Uluduz, N., **Yanchukov**, A., Solak, H. M., & Sözen, M. (2023). Cetacean Stranding Events at Zonguldak, South-western Black Sea Coast of Türkiye. *Acta Zoologica Bulgarica*, 75(1).
4. **Yanchukov**, A., Tarkhnishvili, D., Erdolu, M., Şahin, M.K., Candan, K., Murtskhvaladze, M., Gabelaia, M., Iankoshvili, G., Barateli, N., Ilgaz, Ç., Kumlutaş, Y., Matur, F., Çolak, F., Arakelyan, M., Galoyan, E. (2022). Precise paternal ancestry of hybrid unisexual ZW lizards (genus *Darevskia*, *Lacertidae*, *Squamata*) revealed by Z-linked genomic markers. *Biol. J. Linn. Soc.* 136(2), 293-305. doi:[10.1093/biolinnean/blac023](https://doi.org/10.1093/biolinnean/blac023)
5. Gavashelishvili, A., **Yanchukov**, A., Tarkhnishvili, D., Murtskhvaladze, M., Akhvlediani, I., Kazancı. (2021). Landscape genetics and the genetic legacy of Upper Paleolithic and Mesolithic hunter-gatherers in the modern Caucasus. *Scientific Reports* 11(1). doi:[10.1038/s41598-021-97519-6](https://doi.org/10.1038/s41598-021-97519-6)
6. Tarkhnishvili, D., **Yanchukov**, A., Şahin, M.K., Gabelaia, M., Murtskhvaladze, M., Candan, K., Galoyan, E., Arakelyan, M., Iankoshvili, G., Kumlutaş, Y., Ilgaz, Ç., Matur, F., Çolak, F., Erdolu, M., Kurdadze, S., Barateli, N., Anderson, C. (2020). Genotypic similarities among the parthenogenetic *Darevskia* rock lizards with different hybrid origin. *BMC Evol. Biol.* 20 (1), 1-25
7. Uluduz, N., **Yanchukov**, A. and M. Sözen. (2020). Seasonal dynamics of occurrence and group size of three species of cetaceans (Delphinidae and Phocoenidae: Cetacea) on the southwestern coast of the Black Sea. *Sci. Mar.* 84 (4): 431-439. [https://doi.org/ 10.3989/scimar.05086.21A](https://doi.org/10.3989/scimar.05086.21A)
8. **Yanchukov**, A. Mykhaliuk, V. and R. G. Kryvda. (2020). Analysis of allele frequencies of 15 STR loci in a large population dataset from Ukraine at the regional level. *Australian Journal of Forensic Sciences*, doi: [10.1080/00450618.2020.1749930](https://doi.org/10.1080/00450618.2020.1749930)
9. **Yanchukov**, A., Kandaurov, A., Şahin, M.K., Matur, F. (2020). Karyotype analysis of *Nannospalax xanthodon* (Spalacidae, Rodentia) at the easternmost part of its distribution range. *Commun.Fac.Sci.Univ.Ank.Series C.* 29:1.
10. Solak, H., A. **Yanchukov**, F. Çolak, F. Matur, M. Sözen, İ. Ayanoglu, and J. Winternitz. (2020). Altitudinal effects on innate immune response of a subterranean rodent. *Zoological Science* 37(1), 1-11. **Results of the MSc supervised project**
11. Matur, F.*, **Yanchukov** A.*, Çolak, F. and Sözen, M. (2019). Two major clades of blind mole rats (*Nannospalax* sp.) revealed by mtDNA and microsatellite genotyping in Western and Central Turkey. *Mammalian Biology*. 94: 38-47 * **shared first authorship**
12. Janoušek, V., C.M. Laukaitis, A. **Yanchukov** and R. C. Karn. (2016). The role of retrotransposons in gene family expansions in the human and mouse genomes. *Genome Biology and Evolution*. 8(9): 2632–2650.
13. **Yanchukov**, A. and S. R. Proulx. (2014). Migration–selection balance at multiple loci and selection on dominance and recombination. *Plos One*. 9:2, e88651
14. **Yanchukov**, A. and S. R. Proulx. (2012). Invasion of gene duplication through masking for maladaptive gene flow. *Evolution* 66(5): 1543-1555.

15. **Yanchukov**, A. (2009). Two-locus population models with differential viability between sexes: parallels between haploid parental selection and genomic imprinting. *Genetics*: 182(4): 1117-1127.
16. **Yanchukov**, A., S. Hofman, J.M. Szymura, S.V. Mezhzherin, S.Yu. Morozov-Leonov, N.H. Barton and B. Nürnberger. (2006). Hybridization of *Bombina bombina* and *B. variegata* (Anura, Discoglossidae) at a sharp ecotone in Western Ukraine: comparisons across transects and over time. *Evolution* 60: 560-583.
17. **Yanchukov** A., Morozov-Leonov S.Yu. (2002). Comparative Analysis of the Genetic Structure of Hybrid Populations of European Toads of the Genus *Bombina* (Oken, 1816) from Ukraine and Croatia. *Cytology and Genetics*. 36(3): 36-40.
18. **Yanchukov** A.W., Mezhzherin S.V., Morozov-Leonov S.Yu. (2002). Analysis of transect across the hybrid zone between fire-bellied (*Bombina bombina*) and yellow-bellied (*Bombina variegata*) toads in Pre-Carpathian of Ukraine // *Vestnik Zoologii*. 36(4): 41-46

Preprints:

Yanchukov, A. Hiadlovská, Z., Pezer, Z., Macholan, M., Pialek, J. and S.J.E. Baird. Copy number and high-resolution SNP genotyping across the hybrid zone reveal genome-wide associations beyond the annotated positions of CNV genes. *Preprint, BioRxiv doi.org/10.1101/2021.12.22.473661*

Research Funding (Principal Investigator role)

TÜBİTAK 1002 project “Altitudinal variation in microbiome composition of Anatolian Blind Mole Rat (*Nannospalax xanthodon*) in Central Taurus mountains” Budget : 45,000.00 Turkish Lira. 15.05.2021 - 15.05.2022

TÜBİTAK 1001 project 119Z400 “The complete, genome-wide phylogenetic history of speciation and adaptive radiation in Blind Mole Rats (*Spalax* and *Nannospalax*) in their entire distribution range”. Budget : 714,950.00 Turkish Lira. 01.03.2020 – 01.05.2023

Bilateral research project between Turkey and Georgia, funded jointly by TÜBİTAK (Scientific and Technological Research Council of Turkey) and SRNSF (Shota Rustaveli National Science Foundation of Georgia), “Resolving reticulate speciation process in bisexual and parthenogenetic lizards of genus *Darevskia* in Eastern Anatolia and Caucasus” TÜBİTAK code 216Z189. Budget on the Turkey’s side : 302,075.00 Turkish Lira. 01.03.2018 – 01.03.2020

TÜBİTAK project 117Z596 “Altitudinal variation in genes responding to hypoxia in Turkish blind mole rats (*Nannospalax* sp.)” Total budget – 73,278.00 Turkish Lira. 01.02.2018 – present
Infrastructure capacity improvement allowance from Zonguldak Bülent Ecevit University, 574,530.00 Turkish Lira (20.12.2021)

Supervision of graduate students

Supervision – **Halil Mert Solak**, Bülent Ecevit University Master’s student. ‘Altitudinal effects on the innate immune response and local population genetic structure of *Nannospalax xanthodon* (Anatolian Blind Mole Rat)’. 2019-2020, *Completed*, score 3.64 (4-score max).

Co-supervision – **Meriç Erdolu**, PhD student at Middle East Technical University , thesis “Resolving reticulate speciation process in bisexual and parthenogenetic lizards of genus *Darevskia* in East Anatolia and Caucasus” 2018-2022. *Completed*

Supervision - **Halil Mert Solak**, Zonguldak Bülent Ecevit University PhD student. 2020 - 2024. *Completed*

Editorial service

Editor – Communications Faculty of Sciences University of Ankara Series C Biology Guest Associate
Editor – Frontiers in Ecology and Evolution

Peer review

Plos One, Journal of Mathematical Biology, Frontiers in Ecology and Evolution, Molecular Phylogenetics and Evolution. Grant referee for Rufford Small Projects Foundation

Invited contribution

“Research methods in Population Genetics” 28.03.2018. Faculty of Biology, Ivan Franko National University of Lviv, Ukraine

“Gene copy number variation and its role in evolution”. 14.03.2017. Schmalhausen Institute of Zoology, National Academy of Sciences, Ukraine

“Copy number and high-resolution SNP genotyping across the hybrid zone reveal genome-wide associations beyond the annotated positions of CNV genes”. Department of Biological Sciences, Middle East Technical University, 04/03/2016, Ankara, Turkey

“Hybrid Zones in Central Europe: toads, mice and gene copy number. Faculty of Natural Sciences and Engineering, Ilia State University, 23.03.2016, Tbilisi, Republic of Georgia

“Digital PCR to genotype Gene Copy Number”. International workshop on the Next Generation technologies in Evolutionary Genetics. 10/2014, Nove Hrad, Czech Republic

“Multigenic introgression as a branching process”. School of Mathematical and Statistical Sciences, Arizona State University, 06/12/2012, USA