

Список основных научных трудов и изобретений

- 1) Tarasov, K., Yakhnenko, A., Zarubin, M. et al. *Cytobacillus pseudoceanisediminis* sp. nov., A Novel Facultative Methylophilic Bacterium with High Heavy Metal Resistance Isolated from the Deep Underground Saline Spring. *Curr Microbiol* 80, 31 (2023). <https://doi.org/10.1007/s00284-022-03141-8>
- 2) ISOLATION OF NEW METHYLOTROPHIC SPECIES OF CYTOBACILLUS FROM DEEP UNDERGROUND HOT SPRING OF BAKSAN NEUTRINO OBSERVATORY Tarasov K., Zarubin M., Yakhnenko A., Gangapshev A., Kravchenko E. В книге: *Bioinformatics of Genome Regulation and Structure/Systems Biology (BGRS/SB-2022)*. Abstracts the Thirteenth International Multiconference. Novosibirsk, 2022. С. 539.
- 3) Alena Yakhnenko, Inga Zinicovscaia, Nikita Yushin, Omari Chaligava, Ivan Nebesnykh, Dmitrii Grozdov, Igor Khanaev, Octavian G. Dului, Olga Maikova, Elena Kravchenko, Endemic sponge *Lubomirskia baikalensis* as a bioindicator of chemical elements pollution in Lake Baikal, *Marine Pollution Bulletin*, Volume 182, 2022, <https://doi.org/10.1016/j.marpolbul.2022.114025>.
- 4) РАЗРАБОТКА МИКРОСАТЕЛЛИТНЫХ МАРКЕРОВ ДЛЯ ПОПУЛЯЦИОННО-ГЕНЕТИЧЕСКОГО АНАЛИЗА БАЙКАЛЬСКИХ ЭНДЕМИЧНЫХ ГУБОК. Яхненко А.С., Ицкович В.Б. В книге: *Изучение водных и наземных экосистем: история и современность. Тезисы докладов Международной научной конференции, посвящённой 150-летию Севастопольской биологической станции - Института биологии южных морей имени А. О. Ковалевского и 45-летию НИС «Профессор Водяницкий»*. Севастополь, 2021. С. 497.
- 5) A.V. Arzhannikova, S.G. Arzhannikov, J.-F. Ritz, A.A. Chebotarev, A.S. Yakhnenko, Earthquake geology of the Mondy fault (SW Baikal Rift, Siberia), *Journal of Asian Earth Sciences*, Volume 248, 2023, <https://doi.org/10.1016/j.jseaes.2023.105614>.
- 6) Yakhnenko, A. S. and Itskovich, V. B. (2021) ‘Prospects for population genetic studies of cosmopolitan freshwater sponges of the Spongillidae family in Lake Baikal’, *Limnology and Freshwater Biology*, 2021(6), pp. 1199–1204. doi: 10.31951/2658-3518-2021-a-6-1199.
- 7) Yakhnenko A.S., Itskovich V.B. Universal microsatellite markers for Baikal endemic sponge family *Lubomirskiidae*. 2022. DOI: 10.18699/SBB-2022-101

8) Yakhnenko A.S., Bondar E.I., Itskovich V.B., GENETIC DIFFERENTIATION AT THE POPULATION LEVEL IN LAKE BAIKAL ENDEMIC SPONGE LUBOMIRSKIA BAIKALENSIS. 2022. MAPEEG international conference.

9) E.I. Demonterova, A.V. Ivanov, E.V. Sklyarov, G.V. Pashkova, A.M. Klementiev, M.L. Tyagun, V.A. Vanin, E.G. Vologina, A.S. Yakhnenko, M.S. Yakhnenko, E.A. Kozyreva, $^{87}\text{Sr}/^{86}\text{Sr}$ of Lake Baikal: Evidence for rapid homogenization of water, Applied Geochemistry, Volume 144, 2022, <https://doi.org/10.1016/j.apgeochem.2022.105420>

10) O Maikova et al. Baikal endemic sponge disease and anthropogenic factor. 2021. IOP Conf. Ser.: Earth Environ. Sci. 937 022071 DOI 10.1088/1755-1315/937/2/022071

11) Mikhail Zarubin, Alena Yakhnenko, Elena Kravchenko. Transcriptome analysis of *Drosophila melanogaster* laboratory strains of different geographical origin after long-term laboratory maintenance. Ecology and evolution. 2020 v 10. p. 7082-7093 <https://doi.org/10.1002/ece3.6410>

12) Sergey Arzhannikov Anastasia Arzhannikova Alexei Ivanov Elena Demonterova Alena Yakhnenko Victor Gorovoy John Jansen Lake Baikal highstand during MIS 3 recorded by palaeo-shorelines on Bolshoi Ushkanii Island. Boreas. 2020 early view. <https://doi.org/10.1111/bor.12464>

13) Yakhnenko A.S., Itskovich V.B. Analysis of mtDNA variability in closely related Baikal sponge species for new barcoding marker development. - Limnology. 2020 v.21 no.1 pp. 49-57. DOI: 10.1007/s10201-019-00599-7

14) Яхненко А.С., Ицкович В.Б. Сравнительный анализ variability стандартного 5' концевой участка и участка I3M11 гена COI для близкородственных байкальских губок. International Conference "Freshwater Ecosystems - Key Problems". 10-14 September, 2018 / Abstracts / Irkutsk: "Megaprint", 2018. - 400p.

15) Яхненко В.М., Клименков И.В., Кондратов И., Купчинский А.Б., Батудаева А.К., Яхненко А.С. Морфофункциональные особенности эритроцитов некоторых коттоидных рыб Байкала. International Conference "Freshwater Ecosystems - Key Problems". 10-14 September, 2018 / Abstracts / Irkutsk: "Megaprint", 2018. - 400p.

16) Itskovich V.B., Yakhnenko A.S., Sokolova A.M., Erpenbeck D. Species identification of freshwater sponges (porifera) based on multilocus analysis.

International Conference "Freshwater Ecosystems - Key Problems". 10-14 September, 2018 / Abstracts / Irkutsk: "Megaprint", 2018. - 400p.

17) Яхненко А. С., Ицкович В. Б. Оценка применимости участка I3-M11 гена COI для видовой идентификации близкородственных байкальских губок. Социально-экологические проблемы Байкальского региона и сопредельных территорий : тез. докл. Междунар. науч.- практ. конф. студентов, аспирантов и мол. ученых, посвящ. 100-летию Иркут. гос. ун-та. 23 апр. 2018 г. / редкол. : А. Н. Матвеев [и др.] ; ФГБОУ ВО «ИГУ». – Иркутск : Изд-во ИГУ, 2018. – 409 с.

18) Molecular markers development for studying of the heavy metal response gene expression levels in endemic sponges of Lake Baikal. Yakhnenko, A., Yushin, N., Nebesnykh, I., ...Zinicovscaia, I., Kravchenko, E. AIP Conference Proceedings 2377, 050006 (2021); <https://doi.org/10.1063/5.0063872> Published Online: 24 September 2021

19) Yakhnenko A., Itskovich V. Analysis of Cross-Species Usability of Microsatellite Markers for Baikal Endemic Sponges. 2021, MDPI Proceedings, 68. DOI:10.3390/BDEE2021-09435

20) A. Yakhnenko, V. Itskovich, First microsatellite markers developed for population genetic studies of unique sponges from Lake Baikal. FEBS Open Bio 11 (Suppl. 1) (2021) 103–507 DOI: 10.1002/2211-5463.13205