

## Scientific Papers of Andrey V. Zhigailov

- 1) Berdygulova Zh., Maltseva E., Perfilyeva Y., Nizkorodova A., **Zhigailov A.**, Naizabayeva D., Ostapchuk Y.O., Kuatbekova S., Dosmagambet Zh., Kuatbek M., Bissenbay A., Cherusheva A., Mashzhan A., Abdolla N., Ashimbekov S., Ismagulova G., Dmitrovskiy A., Mamadaliyev S., Skiba Y. RT-qPCR investigation of post-mortem tissues during COVID-19. *Journal of Applied Biomedicine*. 2024;22:115-122. <https://doi.org/10.32725/jab.2024.013>. (IF 2. Scopus 66%; Web of Science Q2).
- 2) Sapakhova Z., Raissova N., Daurov D., Zhapar K., Daurova A., **Zhigailov A.**, Zhambakin K., Shamekova M. Sweet Potato as a Key Crop for Food Security under the Conditions of Global Climate Change: A Review. *Plants (Basel, Switzerland)*. 2023;12(13):2516. <https://doi.org/10.3390/plants12132516>. (IF 4.651; Scopus 86%; Web of Science quartile Q1).
- 3) **Zhigailov A.V.** (correspondence author), Nizkorodova A.S., Sharipov K.O., Polimbetova N.S., Iskakov B.K. Glyphosate treatment mediates the accumulation of small discrete 5'- and 3'-terminal fragments of 18S rRNA in plant cells. *Vavilovskii Zhurnal Genetiki i Seleksii*. 2023; 27(2): 93-98. <https://doi.org/10.18699/VJGB-23-13>. (IF = 0.593; Scopus 51%; Web of Science quartile Q3).
- 4) **Zhigailov A.V.**, Perfilyeva Y.V., Ostapchuk Y.O., Kan S.A., Lushova A.V., Kuligin A.V., Ivanova K.R., Kuatbekova S.A., Abdolla N., Naizabayeva D.A., Maltseva E.R., Berdygulova Z.A., Mashzhan A.S., Zima Y.A., Nizkorodova A.S., Skiba Y.A., Mamadaliyev S.M. Molecular and serological survey of bovine viral diarrhoea virus infection in cattle in Kazakhstan. *Research in Veterinary Science*. 2023;162:104965. <https://doi.org/10.1016/j.rvsc.2023.104965>. (IF 4.1; Scopus 87%; Web of Science Q1).
- 5) **Zhigailov A.V.**, Perfilyeva Y.V., Ostapchuk Y.O., Kulemin M.V., Ivanova K.R., Abdolla N., Kan S.A., Maltseva E.R., Berdygulova Z.A., Naizabayeva D.A., Skiba Y.A., Mamadaliyev S.M. Molecular detection and characterization of bovine viral diarrhoea virus type 2 and bluetongue virus 9 in forest flies (*Hippobosca equina*) collected from livestock in southern Kazakhstan. *Veterinary parasitology, regional studies and reports*. 2023;45:100932. <https://doi.org/10.1016/j.vprsr.2023.100932>. (IF 1.4; Scopus 73%; Web of Science Q2).
- 6) Perfilyeva Y.V., Berdygulova Zh.A., Mashzhan A.S., **Zhigailov A.V.**, Ostapchuk Y.O., Naizabayeva D.A., Cherusheva A.S., Bissenbay A.O., Kuatbekova S.A., Abdolla N., Nizkorodova A.S., Kulemin M.V., Shapiyeva Zh.Zh., Sayakova Z.Z., Perfilyeva A.V., Akhmetollayev I.A., Maltseva E.R., Skiba Y.A., Mamadaliyev S.M., Dmitrovskiy A.M. Molecular and seroepidemiological investigation of *Coxiella burnetii* and spotted fever group rickettsiae in the southern region of Kazakhstan. *Ticks and Tick-borne Diseases*. 2023;14:102240. <https://doi.org/10.1016/j.ttbdis.2023.102240>. (IF 3.2; Scopus 91%; Web of Science Q2).
- 7) Perfilyeva Y.V., Maukayeva S.B., Smail Y.M., Dmitrovskiy A.M., Ostapchuk Y.O., **Zhigailov A. V.**, Nizkorodova A.S., Berdygulova Z.A., Naizabayeva D.A., Perfilyeva A.V., Maltseva E.R., Kamyzbekova K.Z., Skiba Y.A. Lethal pulmonary embolism in a pregnant woman with severe acute respiratory syndrome coronavirus-2 receiving prophylactic anticoagulation: a case report. *Journal of medical case reports*. 2023;17(1):455. <https://doi.org/10.1186/s13256-023-04180-w>. (IF 1.0; Scopus 55%; Web of Science Q3).
- 8) **Zhigailov A.V.**, Perfilyeva Y.V., Maltseva E.R., Ostapchuk Y.O., Cherusheva A.S., Naizabayeva D.A., Nizkorodova A.S., Berdygulova Zh.A., Mashzhan A.S., Bissenbay A.O., Kuatbekova S.A., Koshemetov Zh.K., Abdolla N., Skiba Y.A., Mamadaliyev S.M. Identification and characterization of bluetongue virus in *Culicoides* spp. and clinically healthy livestock in southeastern Kazakhstan. *Comparative Immunology, Microbiology and Infectious Diseases*. 2022;90:101895. <https://doi.org/10.1016/j.cimid.2022.101895>. (IF 2.0; Scopus 89%; Web of Science Q2).
- 9) **Zhigailov A.V.** (correspondence author), Stanbekova G.E., Nizkorodova A.S., Galiakparov N.N., Gritsenko D.A., Polimbetova N.S., Halford N.G., Iskakov B.K. Phosphorylation of the alpha-subunit of plant eukaryotic initiation factor 2 prevents its association with polysomes but does not considerably suppress protein synthesis. *Plant Science*. 2022; 317: 111190; <https://doi.org/10.1016/j.plantsci.2022.111190>. (IF 5.363; Scopus 92%; Web of Science quartile Q1).
- 10) **Zhigailov A.V.**, Maltseva E.R., Perfilyeva Y.V., Ostapchuk Y.O., Naizabayeva D.A., Berdygulova Zh.A., Kuatbekova S.A., Nizkorodova A.S., Mashzhan A.S., Gavrilov A.E., Abayev A.Zh., Akhmetollayev I.A., Mamadaliyev S.M., Skiba Y.A. Prevalence a genetic diversity of coronaviruses, astroviruses and

paramyxoviruses in wild birds in southeastern Kazakhstan. *Heliyon*. 2022;8(11):e11324. <https://doi.org/10.1016/j.heliyon.2022.e11324>. (IF 4.0; Scopus 82%; Web of Science quartile Q2).

11) **Zhigailov A.V.**, Neupokoyeva A.S., Maltseva E.R., Perfilyeva Y.V., Bissenbay A.O., Turebekov N.A., Frey S., Essbauer S., Abdiyeva K.S., Ostapchuk Y.O., Berdygulova Z.A., Aimbetov R.S., Naizabayeva D.A., Dmitrovskiy A.M., Skiba Y.A., Mamadaliyev S.M. The prevalence of *Borrelia* in *Ixodes persulcatus* in southeastern Kazakhstan. *Ticks and Tick Borne Diseases*. 2021;12(4):101716. <https://doi.org/10.1016/j.ttbdis.2021.101716>. (IF 3.2; Scopus 91%; Web of Science Q2).

12) Ostapchuk Y.O., Perfilyeva Y.V., **Zhigailov A.V.**, Maltseva E.R., Neupokoyeva A.S., Bissenbay A.O., Berdygulova Z.A., Naizabayeva D.A., Nizkorodova A.S., Shapiyeva Z.Z., Yegemberdiyeva R.A., Kuznetsova T.V., Kuatbekova S., Akanova A., Ismagulova G.A., Mamadaliyev S.M., Dmitrovskiy A.M., Skiba Y.A. Monitoring of pathogenic *Borrelia burgdorferi* sensu lato in the Almaty oblast, Kazakhstan. *Ticks and tick-borne diseases*. 2021;12(4):101725. <https://doi.org/10.1016/j.ttbdis.2021.101725>. (IF 3.2; Scopus 91%; Web of Science Q2).

13) **Zhigailov A.V.**, Alexandrova A.M., Nizkorodova A.S., Stanbekova G.E., Kryldakov R.V., Karpova O.V., Polimbetova N.S., Halford N.G., Iskakov B.K. Evidence that phosphorylation of the alpha-subunit of eIF2 does not essentially inhibit mRNA translation in wheat germ cell-free system. *Frontiers in Plant Science*. 2020;11:00936. <https://doi.org/10.3389/fpls.2020.00936>. (IF 5.6; Scopus 88%; Web of Science quartile Q1).

14) **Zhigailov A.V.** (correspondence author), Stanbekova G.E., Beisenov D.K., Nizkorodova A.S., Polimbetova N.S., Iskakov B.K. Constructing the constitutively active ribosomal protein S6 kinase 2 from *Arabidopsis thaliana* (*AtRPS6K2*) and testing its activity *in vitro*. *Vavilovskii Zhurnal Genetiki i Seleksii*. 2020;24(3):233-238; <https://doi.org/10.18699/VJ20.39-o>. (IF = 0.593; Scopus 51%; Web of Science quartile Q3).

15) Nizkorodova A., Suvorova M., **Zhigailov A.**, Iskakov B. The effect of translation promoting site (TPS) on protein expression in *E. coli* cells. *Molecular Biotechnology*. 2020;62(7):1-9. <https://doi.org/10.1007/s12033-020-00251-1>. (IF 2.4; Scopus 47%; Web of Science quartile Q3).

16) Ostapchuk Y.O., **Zhigailov A.V.**, Perfilyeva Y.V., Shumilina A.G., Yeraliyeva L.T., Nizkorodova A.S., Kuznetsova T.V., Iskakova F.A., Berdygulova Z.A., Neupokoyeva A.S., Mamadaliyev S.M., Dmitrovskiy A.M. Two case reports of neuroinvasive West Nile virus infection in the Almaty region, Kazakhstan. *IDCases*. 2020;21:e00872. <https://doi.org/10.1016/j.idcr.2020.e00872>. (IF 1.5; Scopus 38%; Web of Science quartile Q3).

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18) **Zhigailov A.V.**, Babaylova E.S., Polimbetova N.S., Graifer D.M., Karpova G.G., Iskakov B.K. Putative implication of 3'-terminal segment of 18S rRNA in translation initiation of uncapped mRNAs in plants. *Molecular Biology (Moscow)*. 2011;45(2):291-299. <https://doi.org/10.1134/S0026893310061081>. (IF 1.2; Scopus 15%; Web of Science Q4).

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