

Список основных публикаций **Карпова Дмитрия Сергеевича** - оппонента диссертации на соискание ученой степени кандидата биологических наук по специальности 1.5.7. – «генетика» Малых Евгении Александровны на тему: «Генетическая модификация клеток *Escherichia coli* с целью обеспечения их аденозинтрифосфатом в условиях сверхсинтеза L-гистидина»

1.Karpov, D. S., Goncharenko, A. V., Usachev, E. V., Vasina, D. V., Divisenko, E. V., Chalenko, Y. M., Pochtovyi A.A., Ovchinnikov R.S., Makarov V.V, Yudin S.M., Tkachuk A.P., Gushchin, V. A. (2021). A Strategy for the Rapid Development of a Safe *Vibrio cholerae* Candidate Vaccine Strain. *International journal of molecular sciences*, 22(21), 11657.

2.Abashkin, D. A., Kurishev, A. O., Karpov, D. S., Golimbet, V. E. (2021). Cellular Models in Schizophrenia Research. *International Journal of Molecular Sciences*, 22(16), 8518.

3.Nadolinskaia, N. I., Zamakhaev, M. V., Shumkov, M. S., Armianinova, D. K., Karpov, D. S., Goncharenko, A. V. (2021). CRISPR Interference of Adenylate Cyclases from *Mycobacterium tuberculosis*. *Applied Biochemistry and Microbiology*, 57(4), 421-425.

4.Spaskaya, D. S., Kotlov, M. I., Lekanov, D. S., Tutyaeva, V. V., Snezhkina, A. V., Kudryavtseva, A. V., Karpov, V.L., Karpov, D. S. (2021). CRISPR/Cas9-mediated genome engineering reveals the contribution of the 26S proteasome to the extremophilic nature of the yeast *Debaryomyces hansenii*. *ACS Synthetic Biology*, 10(2), 297-308.

5.Karpov, D. S., Spirin, P. V., Zheltukhin, A. O., Tutyaeva, V. V., Zinovieva, O. L., Grineva, E. N., Matrosova V.A., Krasnov G.S., Snezhkina A.V., Kudryavtseva A.V., Prassolov V.S., Mashkova T.D., Lisitsyn, N. A. (2020). LINC00973 induces proliferation arrest of drug-treated cancer cells by preventing p21 degradation. *International journal of molecular sciences*, 21(21), 8322.

6.Spaskaya, D. S., Nadolinskaia, N. I., Tutyaeva, V. V., Lysov, Y. P., Karpov, V. L., Karpov, D. S. (2020). Yeast Rpn4 links the proteasome and DNA repair via RAD52 regulation. *International Journal of Molecular Sciences*, 21(21), 8097.

7. Karpov, D. S., Osipova, P. G., Domashin, A. I., Polyakov, N. B., Solovyev, A. I., Zubasheva, M. V., Zhukhovitsky V.G., Karpov V.L., Poddubko S.V., Novikova, N. D. (2020). Hyper-Resistance of the *Bacillus licheniformis* 24 Strain to Oxidative Stress Is Associated with Overexpression of Enzymatic Antioxidant System Genes. *Molecular Biology*, 54(5), 757-768.
8. Nadolinskaia, N. I., Karpov, D. S., & Goncharenko, A. V. (2020). Vaccines against tuberculosis: Problems and prospects. *Applied Biochemistry and Microbiology*, 56(5), 497-504.
9. Karpov, D. S., Domashin, A. I., Kotlov, M. I., Osipova, P. G., Kiseleva, S. V., Seregina, T. A., Goncharenko A. V., Mironov A. S., Karpov V. L., Poddubko, S. V. (2020). Biotechnological potential of the *Bacillus subtilis* 20 strain. *Molecular Biology*, 54(1), 119-127.
10. Bubis, J. A., Spasskaya, D. S., Gorshkov, V. A., Kjeldsen, F., Kofanova, A. M., Lekanov, D. S., Gorshkov M.V., Karpov V.L., Tarasova I.A., Karpov, D. S. (2020). Rpn4 and proteasome-mediated yeast resistance to ethanol includes regulation of autophagy. *Applied microbiology and biotechnology*, 104(9), 4027-4041.
11. Chernoryzh, Y., Fedorova, N. E., Yurlov, K. I., Simonov, R. A., Kornev, A. B., Karpov, D. S., Zakirova, N. F., Ivanov, A. V., Kushch, A. A., Gintsburg, A. L. (2019). Resistance of THP-1 Leukemia Cells Infected with Cytomegalovirus to Anti-tumor Antibiotic Doxorubicin and Restoration of the Sensitivity by Inhibitors of the PI3K/AKT/mTOR Molecular Pathway. In *Doklady Biochemistry and Biophysics* (Vol. 489, No. 1, pp. 388-391).
12. Karpov, D.S., Lysov, Y.P., Karpov, V.L. (2019). Evolution of the system of coordinate regulation of proteasomal gene expression in the yeast class Saccharomycetes. *Molecular Biology*, 53(6), 904-911.
13. Levitsky, L. I., Kliuchnikova, A.A., Kuznetsova, K.G., Karpov, D.S., Ivanov, M. V., Pyatnitskiy, M.A., Kalinina, O.V., Gorshkov, M.V., Moshkovskii, S.A. (2019). Adenosine-to-Inosine RNA Editing in Mouse and Human Brain Proteomes. *Proteomics*, 19(23), 1900195.
14. Zinovieva, O.L., Grineva, E.N., Krasnov, G.S., Karpov, D. S., Zheltukhin, A. O., Snezhkina, A.V., Kudryavtseva, A.V., Mashkova, T.D., Lisitsyn, N. A. (2019). Treatment of cancer cells with chemotherapeutic drugs results in profound changes in expression of genes encoding aldehyde-metabolizing enzymes. *Journal of Cancer*, 10(18), 4256.
15. Karpov, D. S., Karpov, V. L., Klimova, R. R., Demidova, N. A., & Kushch, A. A. (2019). A plasmid-expressed CRISPR/Cas9 system suppresses replication of HSV type I in a vero cell culture. *Molecular Biology*, 53(1), 70-78.