

Ключевые научные публикации за 2021 год

1. Ninkina, N., Millership, S.J., Peters, O.M., Connor-Robson, N., Chaprov, K., Kopylov, A.T., Montoya, A., Kramer, H., Withers, D.J., Buchman, V.L.  $\beta$ -synuclein potentiates synaptic vesicle dopamine uptake and rescues dopaminergic neurons from MPTP-induced death in the absence of other synucleins (2021) *Journal of Biological Chemistry*, 297 (6), статья № 101375. DOI: 10.1016/j.jbc.2021.101375
2. Agarkova, A., Pokrovskii, M., Kolesnichenko, P., Gureev, V., Gudyrev, O., Peresyphkina, A., Korokin, M. (2021). Cerebroprotective effects of 2-ethyl-6-methyl-3hydroxypyridine-2,6-dichlorophenyl(amino)phenylethanoic acid in the treatment of purulent meningitis. *Biomedicines*, 9(3) doi:10.3390/biomedicines9030285
3. Chaprov, K., Rezvykh, A., Funikov, S., Ivanova, T.A., Lysikova, E.A., Deykin, A.V., Kukharsky, M.S., Yu. Aksinenko, A., Bachurin, S.O., Ninkina, N., Buchman, V.L. A bioisostere of Dimebon/Latrepidine delays the onset and slows the progression of pathology in FUS transgenic mice (2021) *CNS Neuroscience and Therapeutics*, 27 (7), pp. 765-775. DOI: 10.1111/cns.13637
4. Guschina, I.A., Ninkina, N., Roman, A., Pokrovskiy, M.V., Buchman, V.L. Triple-knockout, synuclein-free mice display compromised lipid pattern (2021) *Molecules*, 26 (11), статья № 3078 DOI: 10.3390/molecules26113078
5. Netrobenko, A.S., Gureev, V.V., Pokrovskii, M.V., Gureeva, A.V., Tsuverkalova, Y.M., Rozhkov, I.S. Assessment of the nephroprotective properties of the erythropoietin mimetic peptide and infliximab in kidney ischemia-reperfusion injury in rats (2021) *Archives of Razi Institute*, 76 (4), pp. 893-902. DOI: 10.22092/ARI.2021.355849.1728
6. Aravindhan, S., Younus, L.A., Hadi lafta, M., Markov, A., Ivanovna Enina, Y., Yushchenko, N.A., Thangavelu, L., Mostafavi, S.M., Pokrovskii, M.V., Ahmadi, M. P53 long noncoding RNA regulatory network in cancer development (2021) *Cell Biology International*, 45 (8), pp. 1583-1598. DOI: 10.1002/cbin.11600
7. Soldatov, V.O., Kukharsky, M.S., Soldatova, M.O., Puchenkova, O.A., Nikitina, Yu.A., Lysikova, E.A., Kartashkina, N.L., Deykin, A.V., Pokrovskiy, M.V. Retinal abnormalities in transgenic mice overexpressing aberrant human FUS[1-359] gene [РЕТИНАЛЬНЫЕ АНОМАЛИИ У ТРАНСГЕННЫХ МЫШЕЙ, СУПЕРЭКСПРЕССИРУЮЩИХ АБЕРРАНТНЫЙ ЧЕЛОВЕЧЕСКИЙ ГЕН FUS[1-359]] (2021) *Bulletin of Russian State Medical University*, (4), pp. 10-15. DOI: 10.24075/brsmu.2021.043
8. Supriyono, Surendar, A., Thangavelu, L., Arzehgar, Z., Pokrovskii, M.V., Neganov, D.A., Goncharov, D.K., Mohanty, H. Effects of Cr Microalloying on Structural Evolution, Crystallization Behavior and Micromechanical Properties of ZrCoAlCr Bulk Metallic Glass (2021) *Transactions of the Indian Institute of Metals*, 74 (7), pp. 1721-1728. DOI: 10.1007/s12666-021-02267-w
9. Kalatanova, A.V., Pobeda, A.S., Abasheva, D.A., Dolzhikov, A.A., Peresyphkina, A.A., Pokrovskii, M.V. Electroretinography in evaluation of neuroprotective effect in an experimental model of glaucoma (2021) *Vestnik Oftalmologii*, 137 (3), pp. 86-92. DOI: 10.17116/oftalma202113703186
10. Pokrovsky, V.M., Patrakhanov, E.A., Lebedev, P.R., Belashova, A.V., Yu. Karagodina, A., Shabalin, A.A., Nesterov, A.V., Markovskaya, V.A., Pokrovsky, M.V. Estimation of the efficiency of hormone-regulating synchronization of ovulation in female mice (2021) *Farmatsiya i Farmakologiya*, 8 (4), pp. 255-262. DOI: 10.19163/2307-9266-2020-8-4-255-262
11. Korokin, M.V., Kubekina, M.V., Deykin, A.V., Antsiferov, O.V., Pokrovskii, V.M., Korokina, L.V., Kartashkina, N.L., Soldatova, V.A., Kuzubova, E.V., Radchenko, A.I., Pokrovskii, M.V. Study of the pharmacological activity of novel epor/CD131 heteroreceptor agonists in mice with endothelial-specific expression of mutant polg gene [ИЗУЧЕНИЕ ФАРМАКОЛОГИЧЕСКОЙ АКТИВНОСТИ НОВЫХ АГОНИСТОВ ГЕТЕРОРЕЦЕПТОРА ЕРОР/CD131 У ЖИВОТНЫХ С

ЭНДОТЕЛИОСПЕЦИФИЧНОЙ ЭКСПРЕССИЕЙ МУТАНТНОГО ГЕНА POLG] (2021) *Farmatsiya i Farmakologiya*, 9 (4), pp. 294-305. DOI: 10.19163/2307-9266-2021-9-4-294-305

12. Antsiferova, O.E., Teleshchenko, M.P., Tsuverkalova, Y.M., Pokrovsky, M.V., Gureev, V.V., Zatolokina, M.A., Gureeva, A.V. Correction of morphofunctional disorders in experimental preeclampsy by combined use of trimetazidine and purified micronized flavonoid fraction as well as their combinations with methylampsy (2021) *Farmatsiya i Farmakologiya*, 8 (5), pp. 304-315. DOI: 10.19163/2307-9266-2020-8-5-304-315
13. Chaprov, K., Rezykh, A., Funikov, S., Ivanova, T.A., Lysikova, E.A., Deykin, A.V., Kukharsky, M.S., Yu. Aksinenko, A., Bachurin, S.O., Ninkina, N., Buchman, V.L. A bioisostere of Dimebon/Latrepidine delays the onset and slows the progression of pathology in FUS transgenic mice (2021) *CNS Neuroscience and Therapeutics*, 27 (7), pp. 765-775. DOI: 10.1111/cns.13637
14. Bruter, A.V., Korshunova, D.S., Kubekina, M.V., Sergiev, P.V., Kalinina, A.A., Ilchuk, L.A., Silaeva, Y.Y., Korshunov, E.N., Soldatov, V.O., Deykin, A.V. Novel transgenic mice with Cre-dependent co-expression of GFP and human ACE2: a safe tool for study of COVID-19 pathogenesis (2021) *Transgenic Research*, 30 (3), pp. 289-301. DOI: 10.1007/s11248-021-00249-8
15. Silaeva, Y.Y., Kalinina, A.A., Khromykh, L.M., Deykin, A.V., Kazansky, D.B. Formation of a Unique Population of CD8+ T Lymphocytes after Adoptive Transfer of Syngeneic Splenocytes to Mice with Lymphopenia (2021) *Doklady Biochemistry and Biophysics*, 497 (1), pp. 71-74. DOI: 10.1134/S1607672921020137
16. Maltsev, A., Funikov, S., Burov, A., Spasskaya, D., Ignatyuk, V., Astakhova, T., Lyupina, Y., Deikin, A., Tutyaeva, V., Bal, N., Karpov, V., Morozov, A. Immunoproteasome Inhibitor ONX-0914 Affects Long-Term Potentiation in Murine Hippocampus (2021) *Journal of Neuroimmune Pharmacology*, 16 (1), pp. 7-11. DOI: 10.1007/s11481-020-09973-0
17. Ilina, I.V., Khramova, Y.V., Ivanova, A.D., Filatov, M.A., Silaeva, Y.Y., Deykin, A.V., Sitnikov, D.S. Controlled hatching at the prescribed site using femtosecond laser for zona pellucida drilling at the early blastocyst stage (2021) *Journal of Assisted Reproduction and Genetics*, 38 (2), pp. 517-529. DOI: 10.1007/s10815-020-01998-x
18. Kubekina, M.V., Silaeva, Y.Yu., Bruter, A.V., Korshunova, D.S., Ilchuk, L.A., Okulova, Y.D., Soldatova, M.O., Seryogina, E., Kolesnik, I.M., Ukolova, P.A., Korokin, M.V., Deykin, A.V. Transgenic mice Cre-dependently expressing mutant polymerase-gamma: novel test-system for pharmacological study of mitoprotective drugs (2021) *Research Results in Pharmacology*, 7 (3), pp. 33-39. DOI: 10.3897/RRPHARMACOLOGY.7.72784
19. Kalinina, A.A., Khromykh, L.M., Kazansky, D.B., Deykin, A.V., Silaeva, Y.Y. Suppression of the Immune Response by Syngeneic Splenocytes Adoptively Transferred to Sublethally Irradiated Mice (2021) *Acta Naturae*, 13 (1), pp. 116-126. DOI: 10.32607/actanaturae.11252
20. Slyusarenko, V.S., Korokin, M.V., Kovalenko, S.N., Stadnichenko, A.N., Korokina, L.V. Anti-inflammatory activity of a new dipharmacophore derivative of propionic acid (2021) *Journal of Medicinal and Chemical Sciences*, 4 (4), pp. 388-394. DOI: 10.26655/JMCHEMSCI.2021.4.10
21. Pokrovsky V.M., Patrakhanov E.A., Antsiferov O.V., Kolesnik I.M., Belashova A.V., Soldatova V.A., Pokopeiko O.N., Karagodina A.Yu., Arkhipov I.A., Voronina D.G., Sushkova D.N. HEAT SHOCK PROTEIN HSP70: PREREQUISITES FOR USE AS A MEDICINAL PRODUCT. *Pharmacy & Pharmacology*. 2021;9(5):346-355.
22. Deykin AV, Shcheblykina OV, Povetka EE, Golubinskaya PA, Pokrovsky VM, Korokina LV, Vanchenko OA, Kuzubova EV, Trunov KS, Vasyutkin VV, Radchenko AI, Danilenko AP, Stepenko JV, Kochkarova IS, Belyaeva VS, Yakushev VI (2021) Genetically modified animals for use in biopharmacology: from research to production. *Research Results in Pharmacology* 7(4): 11-27.