Сведения об официальном оппоненте

Волчо Константин Петрович, доктор химических наук, специальность 02.00.03 – органическая химия, профессор РАН, главный научный сотрудник, отдел медицинской химии, Федеральное государственное бюджетное учреждение науки «Новосибирский институт органической химии им. Н.Н. Ворожцова Сибирского отделения Российской академии наук».

Список основных публикаций по теме диссертации за последние 5 лет:

1. Moskaliuk V.S., Kozhemyakina R.V., Khomenko T.M., Volcho K.P., Salakhutdinov N.F., Kulikov A.V., Naumenko V.S., Kulikova E.A. On associations between fear-induced aggression, Bdnf transcripts, and serotonin receptors in the brains of norway rats: an influence of antiaggressive drug TC-2153 // Int J Mol Sci. – 2023. – V. 24. – P. 983-1000.
2. Moskaliuk V.S., Kozhemyakina R.V., Bazovkina D.V., Terenina E., Khomenko T.M., Volcho K.P., Salakhutdinov N.F., Kulikov A.V., Naumenko V.S., Kulikova E. On an association between fear-induced aggression and striatal-enriched protein tyrosine phosphatase (STEP) in the brain of Norway rats // Biomed Pharmacother. – 2022. – V. 147. – P. 112667.
3. Munkuev A.A., Dyrkheeva N.S., Kornienko T.E., Ilina E.S., Ivankin D.I., Suslov E.V., Korchagina D.V., Yuriy V Gatilov Y.V., Zakharenko A.L., Malakhova A.A., Reynisson J., Volcho K.P., Salakhutdinov N.F., Lavrik O.I. Adamantane-monoterpenoid conjugates linked via heterocyclic linkers enhance the cytotoxic effect of topotecan // Molecules. – 2022. – V. 27. – P. 3374.
4. Salomatina O.V., Dyrkheeva N.S., Popadyuk I.I., Zakharenko A.L., Ilina E.S., Komarova N.I., Reynisson J., Salakhutdinov N.F., Lavrik O.I., Volcho K.P. New deoxycholic acid derived tyrosyl-DNA phosphodiesterase 1 inhibitors also inhibit tyrosyl-DNA phosphodiesterase 2 // Molecules. – 2021. – V. 27. – P. 72.
5. Khomenko T.M., Shtro A.A., Galochkina A.V., Nikolaeva Y.V., Petukhova G.D., Borisevich S.S., Korchagina D.V., Volcho K.P., Salakhutdinov N.F. Monoterpene-containing substituted coumarins as inhibitors of respiratory syncytial virus (RSV) replication // Molecules. – 2021. – V. 26. – P. 7493.
6. Salomatina O.V., Popadyuk I.I., Zakharenko A.L., Zakharova O.D., Chepanova A.A., Dyrkheeva N.S., Komarova N.I., Reynisson J., Anarbaev R.O., Salakhutdinov N.F., Lavrik O.I., Volcho K.P. Deoxycholic acid as a molecular scaffold for tyrosyl-DNA

phosphodiesterase 1 inhibition: A synthesis, structure-activity relationship and molecular modeling study // Steroids. – 2021. – V. 165. – P. 108771.

7. Gladkova E.D., Nechepurenko I.V., Bredikhin R.A., Chepanova A.A., Zakharenko A.L., Luzina O.A., Ilina E.S., Dyrkheeva N.S., Mamontova E.M., Anarbaev R.O., Reynisson J., Volcho K.P., Salakhutdinov N.F., Lavrik O.I. The first berberine-based inhibitors of tyrosyl-DNA phosphodiesterase 1 (Tdp1), an important DNA repair enzyme // Int J Mol Sci. – 2020. – V. 21. – P. 7162.
8. Ardashov O.V., Pavlova A.V., Mahato A.K., Sidorova Y., Morozova E.A., Korchagina D.V., Salnikov G.E., Genaev A.M., Patrusheva O.S., Li-Zhulanov N.S., Tolstikova T.G., Volcho K.P., Salakhutdinov N.F. A novel small molecule supports the survival of cultured dopamine neurons and may restore the dopaminergic innervation of the brain in the MPTP mouse model of Parkinson's disease // ACS Chem Neurosci. – 2019. – V. 10. – P. 4337-4349.
9. Mozhaitsev E.S., Zakharenko A.L., Suslov E.V., Korchagina D.V., Zakharova O.D., Vasil'eva I.A., Chepanova A.A., Black E., Patel J., Chand R., Reynisson J., Leung I.K.H., Volcho K.P., Salakhutdinov N.F., Lavrik O.I. Novel inhibitors of DNA repair enzyme TDP1 combining monoterpenoid and adamantane fragments // Anticancer Agents Med Chem. – 2019. – V. 19. – P. 463-472.
10. Sidorova Y.A., Volcho K.P., Salakhutdinov N.F. Neuroregeneration in Parkinson's Disease: From Proteins to Small Molecules // Curr Neuropharmacol. – 2019. – V. 17. – P. 268-287.
11. Volcho K.P., Laev S.S., Ashraf G.M., Aliev G., Salakhutdinov N.F. Application of Monoterpenoids and their Derivatives for Treatment of Neurodegenerative Disorders // Curr Med Chem. – 2018. – V. 25. – P. 5327.