Список публикаций ведущей организации
Федеральное государственное бюджетное образовательное учреждение высшего образования «Московский государственный университет имени М.В. Ломоносова»
(МГУ имени М.В. Ломоносова)
по теме диссертации в рецензируемых научных изданиях за 2020–2024 гг.

1. Kuzmina T., Kuzmin V., Bogomolova E., Malakhov V. Organization of the blood system of rhynchonellid brachiopod *Hemithiris psittacea* (Brachiopoda: Rhynchonelliformea) // Journal of Experimental Zoology Part A: Ecological and Integrative Physiology. 2024. V. 341, № 7. P. 766–782.

2. Filatova T.S., Kuzmin V.S., Dzhumaniiazova I., Pustovit O.B., Abramochkin D.V., Shiels H.A. 3-Methyl-phenanthrene (3-MP) disrupts the electrical and contractile activity of the heart of the polar fish, navaga cod (*Eleginus nawaga*) // Chemosphere. 2024. V. 357. Article No. 142089. doi: 10.1016/j.chemosphere.2024.142089.

3. Voronina Y.A., Kuzmin V.S. The influence of probenecid on the proarrhythmic effects of the activation of α-1-adrenoceptor in the atrioventricular node of the rat heart // Moscow University Biological Sciences Bulletin. 2023. V. 78. P 241–248. doi: 10.3103/S009639252460042X.

4. Golyako I.A., Kuzmin V.S., Gorbacheva L.R. The effect of hyperglycemia on the activation of peritoneal macrophages of albino rats // Biomeditsinskaia Khimiia. 2023. Vol. 69, № 6. P. 394–402.

5. Voronina Y.A., Fedorov A.V., Chelombitko M.A., Piunova U.E., Kuzmin V.S. α1-Adrenergic receptors control the activity of sinoatrial node by modulating transmembrane transport of chloride anions // Biochemistry (Moscow), Supplement Series A: Membrane and Cell Biology. 2023. V. 17. P. 39–50.

6. Abramochkin D. V., Filatova T.S., Kuzmin V.S., Voronkov Y.I., Kamkin A., Shiels H.A. Tricyclic hydrocarbon fluorene attenuates ventricular ionic currents and pressure development in the navaga cod // Comparative Biochemistry and Physiology. Part C. Toxicology & Pharmacology. 2023. V. 273. Article No. 109736. doi: 10.1016/j.cbpc.2023.109736

7. Filatova T.S., Kuzmin V.S., Guskova V.O., Abramochkin D.V. Sodium current preserves electrical excitability in the heart of hibernating ground squirrel (*Citellus undulatus*) // Comparative Biochemistry and Physiology. Part A. Molecular & Integrative Physiology. 2023. V. 282. Article No. 111452. doi: 10.1016/j.cbpa.2023.111452.

8. Abramochkin D.V., Pustovit O.B., Mironov N.Y., Filatova T.S., Kuzmin V.S. The dependence of the electrophysiological effects of class iii antiarrhythmic drug refralon on the frequency of myocardium activation // Bulletin of Experimental Biology and Medicine. 2023. V. 174, № 5. P. 610–615.

9. Kuzmin V.S., Ushenin K.S., Dzhumaniiazova I.V., Abramochkin D., Vornanen M. High temperature and hyperkalemia cause exit block of action potentials at the atrioventricular junction of rainbow trout (*Oncorhynchus mykiss*) heart // Journal of Thermal Biology. 2022. V. 110. Article No. 103378. doi: 10.1016/j.jtherbio.2022.103378.

10. Pustovit K.B., Samoilova D.V., Abramochkin D.V., Filatova T.S., Kuzmin V.S. α1-adrenergic receptors accompanied by GATA4 expression are related to proarrhythmic conduction and automaticity in rat interatrial septum // Journal of Physiology and Biochemistry. 2022. V. 78, № 4. P. 793–805.

11. Durkina A.V., Bernikova O.G., Gonotkov M.A., Mikhaleva N.J., Sedova K.A., Malykhina I.A., Kuzmin V.S., Velegzhaninov I.O., Azarov J.E. Melatonin treatment improves ventricular conduction via upregulation of Nav1.5 channel proteins and sodium current in the normal rat heart // Journal of Pineal Research. 2022. V. 73, № 1. Article No. e12798. doi: 10.1111/jpi.12798.

12. Abramochkin D.V., Filatova T.S., Pustovit K.B., Voronina Y.A., Kuzmin V.S., Vornanen M. Ionic currents underlying different patterns of electrical activity in working cardiac myocytes of mammals and non-mammalian vertebrates // Comparative Biochemistry and Physiology. Part A, Molecular & Integrative Physiology. 2022. V. 268. Article No. 111204.

13. Kuzmin V.S., Malykhina I.A., Pustovit K.B., Ivanova A.D., Kuniewicz M., Walocha J., Atkinson A., Aminu A.J., Dobrzynski H. Inflammatory degranulation of the cardiac resident mast cells suppresses

the pacemaking and affects activation pattern in the sinoatrial node // Translational Research in Anatomy. 2022. V. 26. Article No.100170. doi: 10.1016/j.tria.2022.100170.

14. Abramochkin D.V., Haworth T.E., Kuzmin V.S., Dzhumaniiazova I., Pustovit K.B., Gacoin M., Shiels H.A. Adrenergic prolongation of action potential duration in rainbow trout myocardium via inhibition of the delayed rectifier potassium current, IKr // Comparative Biochemistry and Physiology. Part A, Molecular & Integrative Physiology. 2022. V. 267. Article No. 111161. doi: 10.1016/j.cbpa.2022.111161.

15. Selivanova E.K., Shvetsova A.A., Borzykh A.A., Gaynullina D.K., Kiryukhina O.O., Lukoshkova E.V., Potekhina V.M., Kuzmin V.S., Tarasova O.S. Intrauterine L-NAME exposure weakens the development of sympathetic innervation and induces the remodeling of arterial vessels in two-week-old rats // International Journal of Molecular Sciences. 2021. V. 22, № 22. Article No. 12327. doi: 10.3390/ijms222212327.