СВЕДЕНИЯ ОБ ОППОНЕНТЕ

по кандидатской диссертации Камышинского Романа Андреевича "Структура биокристаллов Dps-ДНК по данным криоэлектронной томографии" по специальности 01.04.18 – «кристаллография, физика кристаллов».

Фамилия, имя, отчество оппонента	Киреев Игорь Игоревич
Дата рождения	02.01.1964
Шифр и наименование специальности, по которым защищена диссертация	03.03.04 - клеточная биология, цитология, гистология
Ученая степень и отрасль науки	Доктор биологических наук
Ученое звание	
Полное наименование организации, являющейся основным местом работы оппонента	Научно-исследовательский институт физико-химической биологии имени А.Н. Белозерского Федерального государственного бюджетного образовательного учреждения высшего образования «Московский государственный университет имени М.В. Ломоносова»
Почтовый адрес с указанием индекса	119234, г. Москва, Ленинские горы, д.1, стр. 40
Занимаемая должность	Заведующий отделом электронной микроскопии
Телефон	+7-495-939-55-28
Адрес электронной почты	iikireev@gmail.com

Список основных публикаций официального оппонента по теме диссертации в рецензируемых научных изданиях за последние 5 лет

1. O.Popova, T. Belevich, S.Golyshev, Kireev I, and Aleoshin V, "Labyrinthula diatomea n. sp.—a labyrinthulid associated with marine diatoms," Journal of Eukaryotic Microbiology, pp. 1–10, 2020.
2. Luzhin A.V., Avanesyan B., Velichko A.K., Shender V.O., Ovsyannikova N., Arapidi G.P., Shnaider P.V., Petrova N.V., Kireev I.I., Razin S.V., Kantidze O.L. Chromatin Trapping of Factors Involved in DNA Replication and Repair Underlies Heat-Induced Radio- and Chemosensitization. Cells,2020, том 9, № 6, с. 1423
3. Boichuk S., Galembikova A., Mikheeva E., Bikinieva F., Aukhadieva A., Dunaev P., Khalikov D., Petrov S., Kurtasanov R., Valeeva E., Kireev I., Dugina V., Lushnikova A., Novikova M., Kopnin P. Inhibition of FGF2-Mediated Signaling in GIST— Promising Approach for Overcoming Resistance to Imatinib. Cancers, 2020, том 12, № 6, с. 1-26
4. Pyatibratov Mikhail G., Syutkin Alexey S., Quax Tessa E.F., Melnik Tatjana N., Thane Papke R., Gogarten Johann Peter, Kireev Igor I., Surin Alexey K., Beznosov Sergei N., Galeva Anna V., Fedorov Oleg V. Interaction of two strongly divergent archaellins stabilizes the structure of the Halorubrum archaellum. MicrobiologyOpen, 2020, v.9(7):e1047
5. Obydennyi S.I., Artemenko E.O., Sveshnikova A.N., Ignatova A.A., Varlamova T.V., Gambaryan S., Ugarova N.N., Lomakina G.Y., Kireev I.I., Ataullakhanov F.I., Novichkova G.A., Maschan A.A., Shcherbina A., Panteleev M. Mechanisms of increased mitochondria-dependent necrosis in Wiskott-Aldrich syndrome platelets. Haematologica, 2020, том 105, № 4, с. 1095-1106
6. V. Ashapkin, L. I. Kutueva, S. Y. Kurchashova, and I. I. Kireev, "Are there common mechanisms between the hutchinson–gilford progeria syndrome and natural aging?," Frontiers in genetics, vol. 10, p. 455, 2019.
7. A. K. Velichko, N. V. Petrova, A. V. Luzhin, O. S. Strelkova, N. Ovsyannikova, I. I. Kireev, N. V. Petrova, S. V. Razin, and O. L. Kantidze, "Hypoosmotic stress induces r loop formation in nucleoli and atr/atm-dependent silencing of nucleolar transcription," Nucleic Acids Research, vol. 47, no. 13, pp. 6811–6825, 2019.
8. A. Garanina, I. Kireev, O. Zhironkina, O. Strelkova, A. Shakhov, I. Alieva, V. Davydov, S. Murugesan, V. Khabashesku, A. Majouga, V. Agafonov, and R. Uzbekov, "Long-term live cells observation of internalized fluorescent Fe@C nanoparticles in constant magnetic field," Journal of Nanobiotechnology, vol. 17, no. 1, 2019.
9. K.Y. Vlasova, P. Alexander, I. M. Le-Deygen, H. M. Vishwasrao, J. D. Ramsey, N. L. Klyachko, Y. I. Golovin, P. G. Rudakovskaya, I. I. Kireev, A. V. Kabanov, and S.-P. Marina, "Magnetic liposome design for drug release systems responsive to super-low frequency alternating current magnetic field (ac mf)," Journal of Colloid and Interface Science, vol. 522, pp. 689–700, 2019.
10. E. Y. Plotnikov, I. B. Pevzner, L. D. Zorova, V. P. Chernikov, A. N. Prusov, I. I. Kireev, D. N. Silachev, V. P. Skulachev, and D. B. Zorov, "Mitochondrial damage and mitochondria-targeted antioxidant protection in lps-induced acute kidney injury," ANTIOXIDANTS, vol. 8, no. 6, p. 176, 2019.
11. S. V. Lavrushkina, N. L. Ovsyannikova, A. S. Yudina, O. S. Strelkova, O. A. Zhironkina, K. I. Perepelina, A. B. Malashicheva, and I. I. Kireev, "The role of mechanical properties of the nucleus in maintaining tissue homeostasis," Cell and Tissue Biology, vol. 13, no. 3, pp. 237–241, 2019.
12. N. Ovsiannikova, S. Lavrushkina, A. Yudina, O. Strelkova, O. Zhironkina, and I. Kireev, "The role of the nuclear lamina in cell migration: the connections with aging and metastasis," Biopolymers and Cell, vol. 35, no. 3, pp. 227–228, 2019.
13. R.A. Petrov, S.Yu Maklakova, Y.A. Ivanenkov, S.A. Petrov, O.V. Sergeeva, E.Yu Yamansarov, I.V. Saltykova, I.I. Kireev, I.B. Alieva, E.V. Deyneka, A.A.

Sofronova, A.V. Aladinskaia, A.V. Trofimenko, R.S. Yamidanov, S.V. Kovalev, V.E. Kotelianski, T.S. Zatsepin, E.K. Beloglazkina, A.G. Majouga. Synthesis and biological evaluation of novel mono- and bivalent asgp-r-targeted drug-conjugates. *Bioorganic and Medicinal Chemistry Letters*, 28(3):382–387, 2018.

14. Ilya D. Solovyev, Gavshina AlexandraV, Aditya S. Katti, Alexey I. Chizhik, Leonid M. Vinokurov, Grigory D. Lapshin, Tatiana V. Ivashina, Maria G. Khrenova, Igor I. Kireev, Gregor Ingo, Enderlein Jörg, and Alexander P. Savitsky. Monomerization of the photoconvertible fluorescent protein saasoti by rational mutagenesis of single amino acids. *Scientific reports*, 2018.
15. T. R. Nizamov, A. S. Garanina, I. S. Grebennikov, O. A. Zhironkina, O. S. Strelkova, I. B. Alieva, I. I. Kireev, M. A. Abakumov, A. G. Savchenko, and A. G. Majouga. Effect of iron oxide nanoparticle shape on doxorubicin drug delivery toward lncap and pc-3 cell lines. *BioNanoScience*, 8(1):394–406, 2018.
16. Petr Ostroverkhov, Alevtina Semkina, Aleksey Nikitin, Alexander Smirnov, Daria Vedenyapina, Kseniya Vlasova, Igor Kireev, Mikhail Grin, Vladimir Chekhonin, Alexander Majouga, and Maxim Abakumov. Human serum albumin as an effective coating for hydrophobic photosensitizes immobilization on magnetic nanoparticles. *Journal of Magnetism and Magnetic Materials*, 2018.
17. M.V. Efremova, V.A. Naumenko, M.Spasova, A.S. Garanina, M.A. Abakumov, A.D. Blokhina, P.A. Melnikov, A.O. Prelovskaya, M.Heidelmann, Li Zi-An, Ma Zheng, I.V. Shchetinin, Y.I. Golovin, I.I. Kireev, A.G. Savchenko, V.P. Chekhonin, N.L. Klyachko, M.Farle, A.G. Majouga, and U. Wiedwald. Magnetite-gold nanohybrids as ideal all-in-one platforms for theranostics. *Scientific reports*, 8(11295), 2018.
18. A. I. Alexandrov, E. Grossfeld, A. A. Dergalev, M. O. Agaphonov, R. Chuprov-Netochin, S. V. Leonov, P. A. Tyurin-Kuzmin, I. I. Kireev, and M. D. Ter-Avanesyan. Rapid and reversible formation of protein foci in response to hyperosmotic shock reveals possible bi-phasic architecture of the cytoplasm. *FEBS open bio*, 8:90–104, 2018.
19. O. Shubernetskaya, D. Skvortsov, Evfratov S. A., M. Rubtsova, E. Belova, O. Strelkova, V.Cherepaninets, O. Zhironkina, A. Olovnikov, M. Zvereva, O. Dontsova, Kireev I. I. Interstitial telomeric repeats-associated DNA breaks. Nucleus, 2017, том 8, с. 1-13.
20. Rogov A.G., Ovchenkova A.P., Goleva T.N., Kireev I.I., Zvyagilskaya R.A. New yeast models for studying mitochondrial morphology as affected by oxidative stress and other factors. Analytical Biochemistry, 2017, № 17, с. 30161-30166.
21. Alexandrovich Y.G., Kosenko E.A., Sinauridze E.I., Obydennyi S.I., Kireev I.I., Ataullakhanov F. I., Kaminsky Y.G. Rapid Elimination of Blood Alcohol Using Erythrocytes: Mathematical Modeling and In Vitro Study. BioMed Research International, 2017, том 2017, с. 1-14.
22. Podoplelova N.A., Sveshnikova A.N., Kotova Y.N., Eckly A., Receveur N., Nechipurenko D.Yu, Obydennyi S.I., Kireev I.I., Gachet C., Ataullakhanov F.I., Mangin P.H., Panteleev M.A. Blood coagulation factors bound to procoagulant platelets are concentrated in their cap structures to promote clotting. Blood, 2016, том 128, № 13, с 1745-1755.
23. Deng X., Zhironkina O., Cherepanynets V., Strelkova O., Kireev I., Belmont A.S.Cytology of DNA Replication Reveals Dynamic Plasticity of Large-Scale Chromatin Fibers. Current Biology, 2016, том 26, № 18, с. 2527-2534.
24. Zito F., Lampiasi N., Kireev I., Russo R.United we stand: adhesion and molecular mechanisms driving cell fusion across species. European Journal of Cell Biology, 2016, том 95, № 12, с. 552-562.
25. Dugina Vera, Alieva Irina, Khromova Natalya, Kireev Igor, Gunning Peter, Kopnin Pavel. Interaction of microtubules with the actin cytoskeleton via cross-talk of EB1-containing +TIPs and γ-actin in epithelial cells. Oncotarget, 2016, том 7:72699-72715
26. I. Alieva, I. Kireev, A. Garanina, N. Alyabieva, A.Ruyter, O.Strelkova, O.Zhironkina, V. Cherepanynets, A. Majouga, V.Davydov, V.Khabashesku, V. Agafonov, R.

Uzbekov. Magnetocontrollability of Fe7C3@C Superparamagnetic Nanoparticles in Living Cells. Journal of Nanobiotechnology, 2016, том 14, с. 67.
27. Zhironkina O. A., Kurchashova S.Yu, Pozharskaia V. A., Cherepanynets V. D., Strelkova O. S., P.Hozak, Kireev I.I. Mechanisms of nuclear lamina growth in interphase. Histochemistry and Cell Biology, 2016, том 145, № 4, с. 419-432.

_____ И.И.Киреев
(подпись)

Дата 18.11.2020

Заместитель директора НИИ ФХБ имени А.Н.Белозерского МГУ
по научной работе,
к.б.н.

_____ Б.А.Фенюк