

**Публикации официального оппонента д.б.н. Храмеевой Екатерины Евгеньевны
за последние 5 лет по теме оппонируемой диссертации(2021-2025)**

1. Selivanovskiy, A. V., Molodova, M. N., **Khrameeva, E. E.**, Ulianov, S. V., Razin, S. V. (2025). Liquid condensates: a new barrier to loop extrusion? *Cellular and Molecular Life Sciences*, 82(1), 80.
2. Zhegalova I. V., Ulianov S. V., Galitsyna A. A., Pletenev I. A., Tsoy O. V., Luzhin A. V., Vasiluev P. A., Bulavko E. S., Ivankov D. N., Gavrilov A. A., **Khrameeva E. E.**, M. S. Gelfand, Razin S. V. (2025). Convergent pairs of highly transcribed genes restrict chromatin looping in *Dictyostelium discoideum*. *Nucleic Acids Research*, 53(2), gkaf006.
3. Zagirova, D. R., Kononkova, A. D., Morozov, K. V., Molodova, M. N., Vaulin, N. S., Dudkovskaia, A. V., ... & **Khrameeva, E. E.** (2025). Fetal signatures in the 3D genome of iPSC-derived neurons: implications for disease modeling. *bioRxiv*, 2025-08.
4. Illarionova S., Hamoudi R., Zapevalina M., Fedin I., Alsahanova N., Bernstein A., Burnaev E., Alferova V., **Khrameeva E.**, Shadrin D., Talaat I., Bouridane A., Sharaev M. (2025). A hierarchical algorithm with randomized learning for robust tissue segmentation and classification in digital pathology. *Information Sciences*, 686, 121358.
5. Kriukov D., Eremenko E., Smirnov D., Stein D., Tsitrina A., Golova A., Einav M., **Khrameeva E.**, Toiber D. (2024). Nuclear expansion and chromatin structure remodeling in mouse aging neurons. *NAR Molecular Medicine*, 1(3), ugae011.
6. Doronin S. A., Ilyin A. A., Kononkova A. D., Solovyev M. A., Olenkina O. M., Nenasheva V. V., Mikhaleva E. A., Lavrov S. A., Ivannikova A. Y., Simonov R. A., Fedotova A. A., **Khrameeva E. E.**, Ulianov S. V., Razin S. V. & Shevelyov Y. Y. (2024). Nucleoporin Elys attaches peripheral chromatin to the nuclear pores in interphase nuclei. *Communications Biology*, 7(1), 783.
7. Pletenev, I. A., Bazarevich, M., Zagirova, D. R., Kononkova, A. D., Cherkasov, A. V., Efimova, O. I., ... & **Khrameeva, E. E.** (2024). Extensive long-range polycomb interactions and weak compartmentalization are hallmarks of human neuronal 3D genome. *Nucleic acids research*, 52(11), 6234-6252.
8. Zagirova, D., Kononkova, A., Vaulin, N., & **Khrameeva, E.** (2024). From compartments to loops: understanding the unique chromatin organization in neuronal cells. *Epigenetics & Chromatin*, 17(1), 18.
9. Toiber, D., Kruikov, D., Eremenko, E., Smirnov, D., Stein, D., Tsitrina, A., ... & **Khrameeva, E.** (2023). Nuclear expansion drives chromatin structure remodeling in aging neurons.
10. Smirnov, D. N., Kononkova, A. D., Toiber, D., Gelfand, M. S., & **Khrameeva, E. E.** (2023). optimalTAD: annotation of topologically associating domains based on chromatin marks enrichment. *bioRxiv*, 2023-03.
11. Kobets, V. A., Ulianov, S. V., Galitsyna, A. A., Doronin, S. A., Mikhaleva, E. A., Gelfand, M. S., ... & **Khrameeva, E. E.** (2023). HiConfidence: a novel approach uncovering the biological signal in Hi-C data affected by technical biases. *Briefings in Bioinformatics*, 24(2), bbad044.
12. Ilyin A. A., Kononkova A. D., Golova A. V., Shloma V. V., Olenkina O. M., Nenasheva V. V., Abramov Y. A., Kotov A. A., Maksimov D. A., Laktionov P. P., Pindyurin A. V.,

- Galitsyna A. A., Ulianov S. V., **Khrameeva E. E.**, Gelfand M. S., Belyakin S. N., S. V. Razin, Shevelyov Y. Y. (2022). Comparison of genome architecture at two stages of male germline cell differentiation in *Drosophila*. *Nucleic Acids Research*, 50(6), 3203-3225.
13. Kriukov, D., Zaretckii, M., Kozlovskii, I., Zybin, M., Koritskiy, N., Bazarevich, M., & **Khrameeva, E.** (2021). Hi-C resolution enhancement with genome sequence data. *bioRxiv*, 2021-10.
14. Eremenko, E., Golova, A., Stein, D., Einav, M., **Khrameeva, E.**, & Toiber, D. (2021). FACS-based isolation of fixed mouse neuronal nuclei for ATAC-seq and Hi-C. *STAR protocols*, 2(3), 100643.
15. Ulianov S. V., Zakharova V. V., Galitsyna A. A., Kos P. I., Polovnikov K. E., Flyamer I. M., Mikhaleva E. A., **Khrameeva E. E.**, Germini D., Logacheva M. D., Gavrilov A. A., Gorsky A. S., Nechaev S. K., Gelfand M. S., Vassetzky Y. S., Chertovich A. V., Y. Y. Shevelyov & Razin S. V. (2021). Order and stochasticity in the folding of individual *Drosophila* genomes. *Nature communications*, 12(1), 41.