

СПИСОК ПУБЛИКАЦИЙ ОФИЦИАЛЬНОГО ОППОНЕНТА

Д.Б.Н. КОЛЕСНИКОВОЙ ТАТЬЯНЫ ДМИТРИЕВНЫ ПО ТЕМЕ ОППОНИРУЕМОЙ ДИССЕРТАЦИИ

1. Das S., Caballero M., Kolesnikova T., Zhimulev I., Koren A., Nordman J. Replication timing analysis in polyploid cells reveals Rif1 uses multiple mechanisms to promote underreplication in *Drosophila* // *Genetics*. 2021. V. 219. N. 3. iyab147. 25. DOI: 10.1093/genetics/iyab147
2. Zykova T, Maltseva M, Goncharov F, Boldyreva L, Pokholkova G, Kolesnikova T, Zhimulev I. The organization of pericentromeric heterochromatin in polytene chromosome 3 of the *Drosophila melanogaster* line with the Rif1; SuURES Su(var)3-906 mutations suppressing underreplication. *Cells*, 2021, 10(11): 2809 DOI: 10.3390/cells10112809
3. Kolesnikova TD, Pokholkova GV, Dovgan VV, Zhimulev IF, Schubert V. Super-resolution microscopy reveals stochastic initiation of replication in *Drosophila* polytene chromosomes. (doi: 10.1007/s10577-021-09679-w) *Chromosome Res* 30(4): 361-383, 2022
4. Kolesnikova TD, Klenov MS, Nokhova AR, Lavrov SA, Pokholkova GV, Schubert V, Maltseva SV, Cook KR, Dixon MJ, Zhimulev IF. A spontaneous inversion of the X chromosome heterochromatin provides a tool for studying the structure and activity of the nucleolus in *Drosophila melanogaster*. (doi: 10.3390/cells11233872) *Cells* 11(23): 3872, 2022
5. Зыкова ТЮ, Мальцева МВ, Демаков СА, Похолкова ГВ, Веряскина ЮА, Лаврик ОИ, Колесникова ТД, Жимулев ИФ. КОНСЕРВАТИВНЫЙ БЕЛОК RCC1 – НОВЫЙ КОМПОНЕНТ ЧЕРНЫХ ДИСКОВ ПОЛИТЕННЫХ ХРОМОСОМ *Drosophila melanogaster*. *Онтогенез* 54(2):1-5, 2023 DOI: 10.31857/S0475145023020076
6. Жимулев ИФ, Ватолина ТЮ, Левицкий ВГ, Колесникова ТД, Антоненко ОВ, Цуканов АВ РАЗВИТИЕ ИДЕИ Н.К. КОЛЬЦОВА О ГЕНЕТИЧЕСКОЙ ОРГАНИЗАЦИИ МЕЖДИСКОВ ПОЛИТЕННЫХ ХРОМОСОМ *DROSOPHILA MELANOGASTER*, *Онтогенез*, 54(2):156-159, 2023
7. Kolesnikova TD, Nokhova AR, Shatskikh AS, Klenov MS, Zhimulev IF. Otu and Rif1 double mutant enables analysis of satellite DNA in polytene chromosomes of ovarian germ cells in *Drosophila melanogaster*. (doi: <https://doi.org/10.1134/S160767292360046X>) *Dokl Biochem Biophys* 513 (Suppl 1): S87-S91, 2023 (RSCI, Web of Science Core Collection)
8. Arifulin EA, Sorokin DV, Anoshina NA, Kuznetsova MA, Valyaeva AA, Potashnikova DM, Omelchenko DO, Schubert V, Kolesnikova TD, Sheval EV. Global nuclear reorganization during heterochromatin replication in the giant-genome plant *Nigella damascena* L. (doi: 10.1111/tpj.17063) *Plant J* 120(4): 1508-1521, 2024
9. Kolesnikova TD, Veselova OV, Pokholkova GV, Schubert V, Klenov MS. Localization of rDNA-associated retrotransposons refines the heterochromatin map of the X

chromosome in *Drosophila melanogaster*. *Cytogenet Genome Res*, 2025, doi: 10.1159/000546918

10. Kolesnikova TD, Balantaeva MN, Pokholkova GV, Antonenko OV, Zhimulev IF. The key role of heterochromatin in the phenotypic manifestation of the In(1)sc8 inversion disrupting the achaete-scute complex in *Drosophila melanogaster*. *Vavilovskii Zhurnal Genet Selektcii*. 2025 Jun;29(3):414-422. doi: 10.18699/vjgb-25-44.
11. Evdokimova AA, Kolesnikova TD, Mazina MYu, Krasnov AN, Erokhin M, Chetverina D, Vorobyeva NE. Transcriptional induction by ecdysone in *Drosophila* salivary glands involves an increase in chromatin accessibility and acetylation. (doi: 10.1093/nar/gkaf284) *Nucleic Acids Res* 53(7): gkaf284, 2025