

## **Varvara Popova, Ph. D**

### Education

August 2012 to December 2017: Laboratory of Transcription Factors. Institute of Gene Biology, Russian Academy of Sciences, Moscow, Russia.

Awarded the degree of Ph.D. for a thesis entitled " ORC interacts with THSC/TREX-2 and promotes mRNA export in Drosophila." Work supervised by Dr. Sofia Georgieva.

### Publications

1. Soffers, J.H., Popova, V.V., Workman J.L. (2020). SAGA Structures Provide Mechanistic Models for Gene Activation. Trends in Biochemical Sciences. In Press.
2. Popova, V.V. and Workman, J.L. (2019). NSL complex acetylates Lamin A/C. Nature Cell Biology. 21(10):1177-1178.
3. Popova, V.V. \*, Brechalov, A.V.\*, Georgieva, S.G., Kopytova, D.V. (2018). Nonreplicative Functions of the Origin Recognition Complex. Nucleus. 9(1):460-473. \*These authors contributed equally to the paper as first authors.
4. Minocha, R., Popova, V.V., Kopytova, D.V., Misiak, D., Hüttelmaier, S., Georgieva, S.G., Sträßer, K. (2018). Mud2 functions in transcription by recruiting the Prp19 and TREX complexes to transcribed genes. Nucleic Acids Research. 46(18):9749-9763.
5. Popova, V.V., Orlova, A.V., Kurshakova, M.M., Nikolenko, J.V., Nabirochkina, E.N., Georgieva, S.G., Kopytova, D.V. (2018). The role of SAGA coactivator complex in snRNA transcription. Cell Cycle. 17(15):1859-1870.
6. Kopytova, D.V.\*, Popova, V.V. \*, Kurshakova, M.M., Shidlovskii, Y.V., Nabirochkina, E.N., Brechalov, A.V., Georgiev, G.P., Georgieva, S.G. (2016). ORC interacts with THSC/TREX-2 and its subunits promote Nxf1 association with mRNP and mRNA export in Drosophila. Nucleic Acids Research. 44(10):4920–33. \*These authors contributed equally to the paper as first authors.
7. Popova, V.V., Georgieva, S.G., Kopytova, D.V. (2016). Orc3, A Subunit of Drosophila Pre- Replication Complex Directly Binds mRNA and Interacts with ENY2 Subunit of the TREX-2 mRNA Export Complex. Biochemistry & Molecular Biology Journal. 2:2.
8. Popova, V.V., Glukhova, A.A., Georgieva, S.G., Georgiev, G.P., Kopytova, D.V. (2016). Interactions of the TREX-2 Complex with mRNP Particle of  $\beta$ -Tubulin 56D Gene. Molecular Biology (Mosk). 50(6):1030–38.
9. Popova, V.V., Kurshakova MM, Kopytova DV. (2015). Methods to study the RNA-protein interactions. Molecular Biology (Mosk). 49(3):472–81.
10. Popova, V.V., Dunaevsky, Y.E., Domash, V.I., Semenova, T.A., Beliakova, G.A., Belozersky, M.A. (2015). Some properties and possible biological role of peptidase inhibitors from the entomopathogenic fungus *Tolypocladium cylindrosporium*. Archives of Microbiology. 197(8):1001–10
11. Dunaevsky, Y.E., Popova, V.V., Semenova, T.A., Beliakova, G.A., Belozersky, M.A. (2014). Fungal inhibitors of proteolytic enzymes: Classification, properties, possible biological roles, and perspectives for practical use. Biochimie. 101:10–20.