

Сведения об официальном оппоненте

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Список основных публикаций по теме диссертации за последние 5 лет:

1. Biziaev N., Sokolova E., Yanvarev D.V., Toropygin I.Y., Shuvalov A., Egorova T., Alkalaeva E. Recognition of 3' nucleotide context and stop codon readthrough are determined during mRNA translation elongation // J Biol Chem. – 2022. – V. 298. – P. 102133.
2. Biziaev N.S., Egorova T.V., Alkalaeva E.Z. Dynamics of eukaryotic mRNA structure during translation // Mol Biol (Mosk). – 2022. – V. 56. – P. 451-464.
3. Biziaev N.S., Shuvalov A.V., Alkalaeva E.Z. HEMK-Like Methyltransferases in the Regulation of Cellular Processes // Mol Biol (Mosk). – 2022. – V. 56. – P. 439-450.
4. Shuvalov A., Shuvalova E., Biziaev N., Sokolova E., Evmenov K., Pustogarov N., Arnautova A., Matrosova V., Egorova T., Alkalaeva E. Nsp1 of SARS-CoV-2 stimulates host translation termination // RNA Biol. – 2021. – V. 18. – P. 804-817.
5. Egorova T., Biziaev N., Shuvalov A., Sokolova E., Mukba S., Evmenov K., Zotova M., Kushchenko A., Shuvalova E., Alkalaeva E. eIF3j facilitates loading of release factors into the ribosome // Nucleic Acids Res. – 2021. – V. 49. – P. 11181-11196.
6. Shuvalova E., Egorova T., Ivanov A., Shuvalov A., Biziaev N., Mukba S., Pustogarov N., Terenin I., Alkalaeva E. Discovery of a novel role of tumor suppressor PDCD4 in stimulation of translation termination // J Biol Chem. – 2021. – V. 297. – P. 101269.
7. Sokolova E.E., Vlasov P.K., Egorova T.V., Shuvalov A.V., Alkalaeva E.Z. The Influence of A/G Composition of 3' Stop Codon Contexts on Translation Termination Efficiency in Eukaryotes // Mol Biol (Mosk). – 2020. – V. 54. – P. 837-848.
8. Lashkevich K.A., Shlyk V.I., Kushchenko A.S., Gladyshev V.N., Alkalaeva E.Z., Dmitriev S.E. CTELS: A Cell-Free System for the Analysis of Translation Termination Rate // Biomolecules. – 2020. – V. 10. – P. 911.
9. Egorova T., Sokolova E., Shuvalova E., Matrosova V., Shuvalov A., Alkalaeva E. Fluorescent toeprinting to study the dynamics of ribosomal complexes // Methods. – 2019. – V. 162-163. – P. 54-59.

10. Ivanov A., Shuvalova E., Egorova T., Shuvalov A., Sokolova E., Bizyaev N., Shatsky I., Terenin I., Alkalaeva E. Polyadenylate-binding protein-interacting proteins PAIP1 and PAIP2 affect translation termination // J Biol Chem. – 2019. – V. 294. – P. 8630-8639.
11. Susorov D., Zakharov N., Shuvalova E., Ivanov A., Egorova T., Shuvalov A., Shatsky I.N., Alkalaeva E. Eukaryotic translation elongation factor 2 (eEF2) catalyzes reverse translocation of the eukaryotic ribosome // J Biol Chem. – 2018. – V. 293. – P. 5220-5229.