

Сведения о научном консультанте

диссертации Андреева Дмитрия Евгеньевича “Роль 5’ нетранслируемых областей мРНК в регуляции синтеза белка у млекопитающих”, представленной на соискание ученой степени доктора химических наук по специальностям 02.00.10 – биоорганическая химия и 03.01.03 – молекулярная биология

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Список основных научных публикаций по специальностям 02.00.10 – биоорганическая химия и 03.01.03 – молекулярная биология за последние 5 лет

1. Smirnova VV, Shestakova ED, Bikmetov DV, Chugunova AA, Osterman IA, Serebryakova MV, Sergeeva OV, Zatsepin TS, Shatsky IN, Terenin IM. eIF4G2 balances its own mRNA translation via a PCBP2-based feedback loop. RNA. 2019; 25(7):757-767. doi: 10.1261/rna.065623.118. PMID: 31010886.
2. 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; 294(21):8630-8639. doi: 10.1074/jbc.RA118.006856. PMID: 30992367.
3. Gerresheim GK, Bathke J, Michel AM, Andreev DE, Shalamova LA, Rossbach O, Hu P, Glebe D, Fricke M, Marz M, Goesmann A, Kiniry SJ, Baranov PV, Shatsky IN, Niepmann M. Cellular Gene Expression during Hepatitis C Virus Replication as Revealed by Ribosome Profiling. Int J Mol Sci. 2019; 20(6). pii: E1321. doi: 10.3390/ijms20061321. PMID: 30875926.

4. Makeeva DS, Lando AS, Anisimova A, Egorov AA, Logacheva MD, Penin AA, Andreev DE, Sinitcyn PG, Terenin IM, Shatsky IN, Kulakovskiy IV, Dmitriev SE. Translatome and transcriptome analysis of TMA20 (MCT-1) and TMA64 (eIF2D) knockout yeast strains. Data Brief. 2019; 23:103701. doi: 10.1016/j.dib.2019.103701. PMID: 30815525.
5. Akulich KA, Sinitcyn PG, Makeeva DS, Andreev DE, Terenin IM, Anisimova AS, Shatsky IN, Dmitriev SE. A novel uORF-based regulatory mechanism controls translation of the human MDM2 and eIF2D mRNAs during stress. Biochimie. 2019 Feb;157:92-101. doi: 10.1016/j.biochi.2018.11.005. Epub 2018 Nov 9. PMID: 30419262.
6. Young DJ, Makeeva DS, Zhang F, Anisimova AS, Stolboushkina EA, Ghobakhlou F, Shatsky IN, Dmitriev SE, Hinnebusch AG, Gudyosh NR. Tma64/eIF2D, Tma20/MCT-1, and Tma22/DENR Recycle Post-termination 40S Subunits In Vivo. Mol Cell. 2018 Sep 6;71(5):761-774.e5. doi: 10.1016/j.molcel.2018.07.028. PMID: 30146315.
7. Shatsky IN, Terenin IM, Smirnova VV, Andreev DE. Cap-Independent Translation: What's in a Name? Trends Biochem Sci. 2018; 43(11):882-895. doi: 10.1016/j.tibs.2018.04.011. Review. PMID: 29789219.
8. Susorov D, Zakharov N, Shuvalova E, Ivanov A, Egorova T, Shuvalov A, Shatsky IN, Alkalaeva E. Eukaryotic translation elongation factor 2 (eEF2) catalyzes reverse translocation of the eukaryotic ribosome. J Biol Chem. 2018 Apr 6;293(14):5220-5229. doi: 10.1074/jbc.RA117.000761. PMID: 29453282.
9. Andreev DE, Dmitriev SE, Loughran G, Terenin IM, Baranov PV, Shatsky IN. Translation control of mRNAs encoding mammalian translation initiation factors. Gene. 2018; 651:174-182. doi: 10.1016/j.gene.2018.02.013. Review. PMID: 29414693
10. Andreev DE, O'Connor PB, Loughran G, Dmitriev SE, Baranov PV, Shatsky IN. Insights into the mechanisms of eukaryotic translation gained with ribosome profiling. Nucleic Acids Res. 2017; 45(2):513-526. doi: 10.1093/nar/gkw1190. Review. PMID: 27923997.
11. Akulich KA, Andreev DE, Terenin IM, Smirnova VV, Anisimova AS, Makeeva DS, Arkhipova VI, Stolboushkina EA, Garber MB, Prokofjeva MM, Spirin PV, Prassolov VS, Shatsky IN, Dmitriev SE. Sci Rep. 2016; 6:37905. doi: 10.1038/srep37905. PMID: 27892500.
12. Terenin IM, Smirnova VV, Andreev DE, Dmitriev SE, Shatsky IN. A researcher's guide to the galaxy of IRESSs. Cell Mol Life Sci. 2017 74(8):1431-1455. doi: 10.1007/s00018-016-2409-5. Review. PMID: 27853833.
13. Nikonova EY, Mihaylina AO, Lekontseva NV, Nikonov OS, Klyashtorny VG, Kravchenko OV, Andreev DE, Shatsky IN, Garber MB. Determination of the Minimal Fragment of the Poliovirus IRES Necessary for the Formation of a Specific Complex with the Human Glycyl-tRNA Synthetase. Biofizika. 2016; 61(2):277-85. Russian. PMID: 27192829.
14. Terenin IM, Akulich KA, Andreev DE, Polyanskaya SA, Shatsky IN, Dmitriev SE. Sliding of a 43S ribosomal complex from the recognized AUG codon triggered by a delay in eIF2-bound

GTP hydrolysis. Nucleic Acids Res. 2016; 44(4):1882-93. doi: 10.1093/nar/gkv1514. PMID: 26717981.

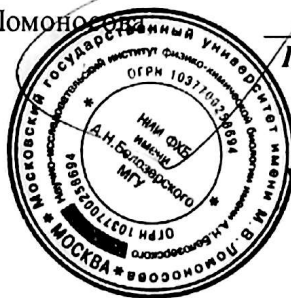
15. Smirnova VV, Terenin IM, Khutornenko AA, Andreev DE, Dmitriev SE, Shatsky IN. Does HIV-1 mRNA 5'-untranslated region bear an internal ribosome entry site? Biochimie. 2016; 121:228-37. doi: 10.1016/j.biochi.2015.12.004. PMID: 26700150.

16. Andreev DE, Terenin IM, Dmitriev SE, Shatsky IN. Pros and cons of pDNA and mRNA transfection to study mRNA translation in mammalian cells. Gene. 2016; 578(1):1-6. doi: 10.1016/j.gene.2015.12.008. Review. PMID: 26680098.

17. Andreev DE, O'Connor PB, Zhdanov AV, Dmitriev RI, Shatsky IN, Papkovsky DB, Baranov PV. Oxygen and glucose deprivation induces widespread alterations in mRNA translation within 20 minutes. Genome Biol. 2015;16:90. doi: 10.1186/s13059-015-0651-z. PMID: 25943107.

18. Andreev DE, O'Connor PB, Fahey C, Kenny EM, Terenin IM, Dmitriev SE, Cormican P, Morris DW, Shatsky IN, Baranov PV. Translation of 5' leaders is pervasive in genes resistant to eIF2 repression. Elife. 2015; 4:e03971. doi: 10.7554/eLife.03971. PMID: 25621764.

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