

Список основных публикаций работников ведущей организации по теме диссертации Грищенко Ирины Владимировны «Исследование нестабильности экзогенных повторов (CGG)_n в клеточных моделях» на соискание ученой степени кандидата биологических наук по специальности 1.5.3. – молекулярная биология в рецензируемых изданиях за последние 5 лет (не более 15 публикаций).

1. Evdokimov A.N., Popov A.A., Ryabchikova E.I., Koval O.A., Romanenko S., Trifanov V.A., Petrusheva I.O., Lavrik I.N., Lavrik O.I. Uncovering molecular mechanisms of regulated cell death in the naked mole rat // *Aging-US*. – 2021. – V. 13. – № 3. – P. 3239–3253. DOI: 10.18632/aging.202577
2. Lebedeva N.A., Rechkunova N.I., Endutkin A.V., Lavrik O.I. Apurinic/Apyrimidinic Endonuclease 1 and Tyrosyl-DNA Phosphodiesterase 1 Prevent Suicidal Covalent DNA-Protein Crosslink at Apurinic/Apyrimidinic Site // *Front. Cell Dev Biol.* – 2021. – V. 8. – P. 617301. DOI: 10.3389/fcell.2020.617301
3. Graifer D.M., Karpova G.G. Eukaryotic protein uS19: A component of the decoding site of ribosomes and a player in human diseases // *Biochem J.* – 2021. – V. 478. – № 5. – P. 997–1008. DOI: 10.1042/BCJ20200950
4. Gopanenko A.V., Kolobova A.V., Meschaninova M.I., Venyaminova A.G., Tupikin A.E., Kabilov M.R., Malygin A.A., Karpova G.G. Knockdown of the mRNA encoding the ribosomal protein eL38 in mammalian cells causes a substantial reorganization of genomic transcription // *Biochimie.* – 2021. – V. – 184. – P. 132–142. DOI: 10.1016/j.biochi.2021.02.017
5. Petrusheva I.O., Naumenko N.V., N.B., Kuper J., Anarbayev R.O., Kappenberger J., Kisker C., Lavrik O.I. The Interaction Efficiency of XPD-p44 With Bulky DNA Damages Depends on the Structure of the Damage // *Front. Cell Dev Biol.* – 2021. – V. 9. – P. 617160. DOI: 10.3389/fcell.2021.617160
6. Popov A.V., Endutkin A.V., Yacenko D.D., Yudkina A.V., Barmatov A.E., Makasheva K.A., Raspopova D.Y., Dyatlova E., Zharkov D.O. Molecular dynamics approach to identification of new OGG1 cancer-associated somatic variants with impaired activity // *J. Biol. Chem.* – 2021. – V. 296. – P. 100229. DOI: 10.1074/jbc.RA120.014455
7. Ermakov E.A., Dmitrieva E.M., Parshukova D.A., Kazantseva D.V., Vasilieva A.R., Smirnova L.P.. Oxidative Stress-Related Mechanisms in Schizophrenia Pathogenesis and New Treatment Perspectives // *Oxid Med Cell Longev.* – 2021. – V. 2021. – P. 8881770. DOI: 10.1155/2021/8881770
8. Kutuzov M.M., Belousova E.A., Kurgina T.A., Ukraintsev A.A., Vasil'eva I.A., Khodyreva S.N., Lavrik O.I. The contribution of PARP1, PARP2 and poly(ADP-ribosylation) to base excision repair in the nucleosomal context // *Scientific Reports.* – 2021. – V. 11. – N 1. – P. 4849. DOI: 10.1038/s41598-021-84351-1
9. Kuznetsov N.A., Fedorova O.S. Kinetic Milestones of Damage Recognition by DNA Glycosylases of the Helix-Hairpin-Helix Structural Superfamily // *Adv. Exp. Med. Biol.* – 2020. – V. 1241. – P. 1–18. DOI: 10.1007/978-3-030-41283-8_1
10. Kutuzov M.M., Belousova E.A., Ilina E.S., Lavrik O.I. Impact of PARP1, PARP2 & PARP3 on the Base Excision Repair of Nucleosomal DNA // *Adv. Exp. Med. Biol.* – 2020. – V. 1241. – P. 47–57. DOI: 10.1007/978-3-030-41283-8_4
11. Vasil'eva I.A., Moor N.A., Lavrik O.I. Effect of Human XRCC1 Protein Oxidation on the Functional Activity of Its Complexes with the Key Enzymes of DNA Base Excision Repair // *Biochemistry (Moscow).* – 2020. – V. 85. – № 3. – P. 288–299. DOI: 10.1134/S0006297920030049
12. Kladova O.A., Iakovlev D.A., Groisman R., Ishchenko A.A., Saparbaev M.K., Fedorova O.S., Kuznetsov N.A. An Assay for the Activity of Base Excision Repair Enzymes in Cellular Extracts Using Fluorescent DNA Probes // *Biochemistry (Moscow).* – 2020. – V. 85. – № 4. – P. 480–489. DOI: 10.1134/S0006297920040082
13. Alekseeva I.V., Kuznetsova A.A., Bakman A.S., Fedorova O.S., Kuznetsov N.A. The role of active-site amino acid residues in the cleavage of DNA and RNA substrates by human apurinic/apyrimidinic endonuclease APE1 // *Biochim. Biophys. Acta - General Subjects.* – 2020. – V. 1864. – № 12. – P. 129718. DOI: 10.1016/j.bbagen.2020.129718

14. Moor N.A., Vasil'eva I.A., Kuznetsov N.A., Lavrik O.I. Human apurinic/apyrimidinic endonuclease 1 is modified in vitro by poly(ADP-ribose) polymerase 1 under control of the structure of damaged DNA // *Biochimie.* – 2020. – V. 168. – P. 144–155. DOI: 10.1016/j.biochi.2019.10.011

Rodriguez-Alvarez M., Kim D.V., Khobta A. EGFP reporters for direct and sensitive detection of mutagenic bypass of DNA lesions // *Biomolecules.* – 2020. – V. 10. – № 6. – P. 1–19. DOI: 10.3390/biom10060902