

Сведения об официальном оппоненте

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Список основных публикаций по теме диссертации за последние 5 лет:

1. Kayumov A.R., Bogachev M.I., Manuvera V.A., Lazarev V.N., Sabantsev A. V., Artamonova T.O., Borchsenius S.N., Vishnyakov I.E. Recombinant small heat shock protein from *Acholeplasma laidlawii* increases the *Escherichia coli* viability in thermal stress by selective protein rescue // Mol. Biol. – 2017. – V. 51. – № 1. – P. 112–121.
2. Chernova L.S., Fedorova M.S., Vishnyakov I.E., Kayumov A.R. Overexpression of the recombinant IbpA protein from *Acholeplasma laidlawii* in *Escherichia coli* cells increases thermotolerance // Journal of Physics: Conference Series. – 2020. – V. 1695. – № 1. – P. 12049.
3. Zhuravleva D.E., Iskhakova Z.I., Ozhegov G.D., Gogoleva N.E., Khusnutdinova D.R., Shagimardanova E.I., Forchhammer K., Kayumov A.R. Complete genome sequence of *Lactobacillus hilgardii* LMG 7934, carrying the gene encoding for the novel PII-like protein PotN // Curr. Microbiol. – 2020. – V. 77. – № 11. – P. 3538–3545.
4. Chernova L.S., Sharafutdinov I.S., Kayumov A.R. HtrA protein hyperproduction increases the viability of *Bacillus subtilis* cells under the stress conditions and stimulates biofilm formation // UCHENYE Zap. Kazan. Univ. Estestv. Nauk. – 2017. – V. 159. – № 2. – P. 262–271.
5. Chernova L.S., Bogachev M.I., Chasov V. V, Vishnyakov I.E., Kayumov A.R. N-and C-terminal regions of the small heat shock protein IbpA from *Acholeplasma laidlawii* competitively govern its oligomerization pattern and chaperone-like activity // RSC Adv. – 2020. – V. 10. – № 14. – P. 8364–8376.
6. Iskhakova Z.I., Zhuravleva D.E., Heim C., Hartmann M.D., Laykov A. V, Forchhammer K., Kayumov A.R. PotN represents a novel energy- state sensing PII subfamily, occurring in firmicutes // FEBS J. – 2022.

7. Iskhakova Z., Zhuravleva D., Matigorova V., Kayumov A. The expression of novel PII-like protein from *Lentilactobacillus hilgardii* // IOP Conference Series: Earth and Environmental Science. – 2022. – V. 978. – № 1. – P. 12030.
8. Pavlova A., Ozhegov G., Yahia M.N., Gogoleva N., Shagimardanova E., Nikitina E., Kayumov A. Whole genome sequence data of *Lactobacillus fermentum* AG8, the producer of antibacterial peptides // IOP Conference Series: Earth and Environmental Science. – 2021. – V. 715. – № 1. – P. 12071.