

Сведения об официальном оппоненте

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Список основных публикаций по теме диссертации за последние 5 лет:

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2. Bodulev OL, Zakharov MD, Sakharov IY. Chemiluminescent plate assay of microRNA-155 coupled with catalytic hairpin assembly with oligonucleotide release (CHAOR). Talanta. 2024 Apr 1; 270:125525. doi: 10.1016/j.talanta.2023.125525
3. Xu C, Zhao J, Chen S, Sakharov IY, Hu S, Zhao S. An ultrasensitive bunge bedstraw herb type DNA machine for absolute quantification of mRNA in single cell. Biosens Bioelectron. 2022 Dec 1; 217:114702. doi: 10.1016/j.bios.2022.114702
4. Solovjev AM, Galkin II, Medved'ko AV, Pletjushkina OY, Zhao S, Sakharov IY. Comparison of chemiluminescent heterogeneous and homogeneous-heterogeneous assays coupled with isothermal circular strand-displacement polymerization reaction amplification for the quantification of miRNA-141. Analyst. 2022 Sep 26;147(19):4293-4300. doi: 10.1039/d2an00921h.
5. Bodulev OL, Sakharov IY. Modern Methods for Assessment of microRNAs. Biochemistry (Mosc). 2022 May;87(5):425-442. doi: 10.1134/S0006297922050042
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7. Chen S, Zhao J, Sakharov IY, Xu J, Xu C, Zhao S. An ultrasensitive multivariate signal amplification strategy based on microchip platform tailored for simultaneous quantification of multiple microRNAs in single cell. Biosens Bioelectron. 2022 May 1; 203:114053. doi: 10.1016/j.bios.2022.114053.

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9. Bodulev OL, Zhao S, Sakharov IY. Improving the Sensitivity of the miRNA Assay Coupled with the Mismatched Catalytic Hairpin Assembly Reaction by Optimization of Hairpin Annealing Conditions. *Anal Chem.* 2021 May 4;93(17):6824-6830. doi: 10.1021/acs.analchem.1c00820
10. Solovjev AM, Galkin II, Pletjushkina OY, Medvedko AV, Zhao S, Sakharov IY. Isothermal chemiluminescent assay based on circular strand-displacement polymerization reaction amplification for cel-miRNA-39-3p determination in cell extracts. *Int J Biol Macromol.* 2021 Jul 1; 182:987-992. doi: 10.1016/j.ijbiomac.2021.04.101
11. Solovjev AM, Kurzeev SA, Sakharov IY. Chemiluminescent microplate-based assay of DNA based on isothermal circular strand-displacement polymerization reaction (ICS DPR). *Talanta.* 2020 Aug 1; 215:120895. doi: 10.1016/j.talanta.2020.120895
12. Bodulev OL, Burkin KM, Efremov EE, Sakharov IY. One-pot microplate-based chemiluminescent assay coupled with catalytic hairpin assembly amplification for DNA detection. *Anal Bioanal Chem.* 2020 Aug;412(21):5105-5111. doi: 10.1007/s00216-020-02438-6.