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Адрес

Федеральное государственное бюджетное учреждение науки Институт биоорганической химии им. академиков М.М. Шемякина и Ю.А. Овчинникова Российской академии наук, Москва, Россия

Контакты

<https://www.ibch.ru/users/129>

Работа в ИБХ

2019–наст.вр.	Главный научный сотрудник
	Ведущий научный сотрудник

Научные интересы

Ее научные интересы связаны с получением новых биоматериалов для биомедицины (системы с контролируемой доставкой лекарств, нано-капсулирование биоактивных пептидов и белков, микрокапсулирование животных клеток, биодegradируемые матриксы (скаффолды) для репарации тканей и др..

Членство в сообществах

Участвует в работе русских научных и зарубежных обществ. Является представителем и главным координатором международного общества Bioencapsulation Research Group в России, представляет Россию (является экспертом и входит в координационный комитет) в международных программах COST (840 и 865).

Степени и звания

Доктор наук (Химические науки, 03.00.04 — Биохимия)

Гранты и проекты

2021– наст.вр.	Новые мультитаргетные гибридные белки на основе высокоспецифичного мутантного варианта цитокина TRAIL DR5-B с эффекторными пептидами для параллельного воздействия на различные сигнальные пути, влияющие на развитие опухолей
2018– 2020	Опухолевые сфероиды, полученные с помощью RGD-пептидов, как новые 3D in vitro модели для изучения цитотоксичности наночастиц с лекарствами

Публикации

1. Drozdova MG, Demina TS, Dregval OA, Gaidar AI, Andreeva ER, Zelenetskii AN, Akopova TA, **Markvicheva EA** (2022). Macroporous Hyaluronic Acid/Chitosan Polyelectrolyte Complex-Based Hydrogels Loaded with Hydroxyapatite Nanoparticles: Preparation, Characterization and In Vitro Evaluation. *Polysaccharides* 3 (4), 745–760, [10.3390/polysaccharides3040043](https://doi.org/10.3390/polysaccharides3040043)
2. Yagolovich AV, Isakova AA, Artykov AA, Vorontsova YV, Mazur DV, Antipova NV, Pavlyukov MS, Shakhparonov MI, Gileva AM, **Markvicheva EA**, Plotnikova EA, Pankratov AA, Kirpichnikov MP, Gasparian ME, Dolgikh DA (2022). DR5-Selective TRAIL Variant DR5-B Functionalized with Tumor-Penetrating iRGD Peptide for Enhanced Antitumor Activity against Glioblastoma. *Int J Mol Sci* 23 (20), , [10.3390/ijms232012687](https://doi.org/10.3390/ijms232012687)
3. Sazhnev NA, Kildeeva NR, Drozdova MG, **Markvicheva EA** (2022). Fibrous Scaffolds for Tissue Engineering Electrospun from Fibroin-Containing Solutions. *FIBRE CHEM+* 53 (6), 370–372, [10.1007/s10692-022-10303-8](https://doi.org/10.1007/s10692-022-10303-8)

4. Yagolovich A, Kuskov A, Kulikov P, Kurbanova L, Bagrov D, Artykov A, Gasparian M, Sizova S, Oleinikov V, Gileva A, Kirpichnikov M, Dolgikh D, **Markvicheva E** (2021). Amphiphilic Poly(N-vinylpyrrolidone) Nanoparticles Conjugated with DR5-Specific Antitumor Cytokine DR5-B for Targeted Delivery to Cancer Cells. *Pharmaceutics* 13 (9), , [10.3390/pharmaceutics13091413](https://doi.org/10.3390/pharmaceutics13091413)
5. Kuskov A, Selina O, Kulikov P, Imatdinov I, Balysheva V, Kryukov A, Shtilman M, **Markvicheva E** (2021). Amphiphilic Poly(N-Vinylpyrrolidone) Nanoparticles Loaded with DNA Plasmids Encoding Gn and Gc Glycoproteins of the Rift Valley Fever Virus: Preparation and in Vivo Evaluation. *ACS Applied Bio Materials* 4 (8), 6084–6092, [10.1021/acsabm.1c00426](https://doi.org/10.1021/acsabm.1c00426)
6. Borodina T, Gileva A, Akasov R, Trushina D, Burov S, Klyachko N, González-Alfaro Y, Bukreeva T, **Markvicheva E** (2020). Fabrication and evaluation of nanocontainers for lipophilic anticancer drug delivery in 3D in vitro model. *J Biomed Mater Res B Appl Biomater* 109 (4), 527–537, [10.1002/jbm.b.34721](https://doi.org/10.1002/jbm.b.34721)
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10. Sambhi M, Samuel V, Qorri B, Haq S, Burov SV, **Markvicheva E**, Harless W, Szewczuk MR (2020). A triple combination of metformin, acetylsalicylic acid, and oseltamivir phosphate impacts tumour spheroid viability and upends chemoresistance in triple-negative breast cancer. *Drug Des Devel Ther* 14, 1995–2019, [10.2147/DDDT.S242514](https://doi.org/10.2147/DDDT.S242514)
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