Резюме: Мальцева Диана Васильевна



Адрес

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

Контакты

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Образование

2005–2008	Российская Федерация	Московский Государственный Университет им. М.В. Ломоносова, химический факультет	аспирантура
2000–2005	Российская Федерация	Московский Государственный Университет им. М.В. Ломоносова, химический факультет	специалист, диплом с отличием

Работа в ИБХ

2020–наст.вр.	Ведущий научный сотрудник	

Владение языками

русский, английский

Научные интересы

- Молекулярные механизмы метастазирования опухолей;
- Роль внеклеточного матрикса в развитии опухолевых заболеваний;
- Роль внеклеточного матрикса в процессе метастазирования;
- Молекулы клеточной адгезии;
- Роль молекул клеточной адгезии процессе метастазирования;
- Микрофлюидные системы типа «орган-на-чипе»;
- In vitro модель кишечника человека;
- Эпигенетические механизмы регуляции экспрессии генов, микро-РНК, метилирование ДНК.

Степени и звания

	Кандидат наук (Химические науки, 02.00.10 — Биоорганическая химия)

Гранты и проекты

2019–2023	Микрофлюидные технологии для поиска физиологически активных метаболитов, микробиотических средств, диагностики аутоиммунных и онкологических заболеваний

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miRNAs within polycistronic clusters. *Front Mol Biosci* 13, 1913118, 10.3389/fmolb.2026.1913118
2. Zhiyanov A, Kirillov I, Suvorov R, **Maltseva D**, Tonevitsky A (2026). Targetome profile of hsa-miR-93-5p is resistant to isoform formation in prostate adenocarcinoma. *PeerJ* 14, e20642, 10.7717/peerj.20642
3. Yanova M, **Maltseva D**, Tonevitsky A (2025). Sidedness matters: single-cell perspectives on left- and right-sided colorectal cancer. *Front Cell Dev Biol* 13, 1720996, 10.3389/fcell.2025.1720996
4. **Maltseva D**, Zhiyanov A, Lange T, Tonevitsky A (2025). CD44 knockdown alters miRNA expression and their target genes in colon cancer. *Front Immunol* 16, 1552665, 10.3389/fimmu.2025.1552665
5. **Maltseva D**, Nersisyan A, Tonevitsky A (2025). Interplay of integrins and selectins in metastasis.*Mol Oncol* 19 (6), 1582–1611, 10.1002/1878-0261.70026
6. Yanova M, Stepanova E, **Maltseva D**, Tonevitsky A (2025). CD44 variant exons induce chemoresistance by modulating cell death pathways. *Front Cell Dev Biol* 13, 1508577, 10.3389/fcell.2025.1508577
7. **Maltseva D**, Kirillov I, Zhiyanov A, Averinskaya D, Suvorov R, Gubani D, Kudriaeva A, Belogurov A, Tonevitsky A (2024). Incautious design of shRNAs for stable overexpression of miRNAs could result in generation of undesired isomiRs. *BIOCHIM BIOPHYS ACTA* 1867 (3), 195046, 10.1016/j.bbagrm.2024.195046
8. Makarova J, **Maltseva D**, Tonevitsky A (2023). Challenges in characterization of transcriptomes of extracellular vesicles and non-vesicular extracellular RNA carriers. *Front Mol Biosci* 10, 1327985, 10.3389/fmolb.2023.1327985
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10. Everest-Dass A, Nersisyan S, Maar H, Novosad V, Schröder-Schwarz J, Freytag V, Stuke JL, Beine MC, Schiecke A, Haider MT, Kriegs M, Elakad O, Bohnenberger H, Conradi LC, Raygorodskaya M, Krause L, von Itzstein M, Tonevitsky A, Schumacher U, **Maltseva D**, Wicklein D, Lange T (2023). Spontaneous metastasis xenograft models link CD44 isoform 4 to angiogenesis, hypoxia, EMT and mitochondria-related pathways in colorectal cancer. *Mol Oncol* 18 (1), 62–90, 10.1002/1878-0261.13535
11. Novosad VO, **Maltseva DV** (2023). The RNA-Binding Proteins OAS1, ZFP36L2, and DHX58 Are Involved in the Regulation of CD44 mRNA Splicing in Colorectal Cancer Cells. *Bull Exp Biol Med* 175 (1), 144–149, 10.1007/s10517-023-05826-x
12. Nersisyan S, Zhiyanov A, Engibaryan N, **Maltseva D**, Tonevitsky A (2022). A novel approach for a joint analysis of isomiR and mRNA expression data reveals features of isomiR targeting in breast cancer. *Front Genet* 13, 1070528, 10.3389/fgene.2022.1070528
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14. Volynsky P, **Maltseva D**, Tabakmakher V, Bocharov EV, Raygorodskaya M, Zakharova G, Britikova E, Tonevitsky A, Efremov R (2022). Differences in Medium-Induced Conformational Plasticity Presumably Underlie Different Cytotoxic Activity of Ricin and Viscumin. *Biomolecules* 12 (2), , 10.3390/biom12020295
15. Knyazev E, **Maltseva D**, Raygorodskaya M, Shkurnikov M (2021). HIF-Dependent NFATC1 Activation Upregulates ITGA5 and PLAUR in Intestinal Epithelium in Inflammatory Bowel Disease. *Front Genet* 12, 791640, 10.3389/fgene.2021.791640
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23. **Maltseva D**, Raygorodskaya M, Knyazev E, Zgoda V, Tikhonova O, Zaidi S, Nikulin S, Baranova A, Turchinovich A, Rodin S, Tonevitsky A (2020). Knockdown of the α5 laminin chain affects differentiation of colorectal cancer cells and their sensitivity to chemotherapy. *Biochimie* 174, 107–116, 10.1016/j.biochi.2020.04.016
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