

Резюме: Мальцева Диана Васильевна



Адрес

Федеральное государственное
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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
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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– [Микрофлюидные технологии для поиска физиологически активных метаболитов.](#)
2023 [микробиотических средств. диагностики аутоиммунных и онкологических заболеваний](#)

Публикации

1. 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](https://doi.org/10.7717/peerj.20642)
2. 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](https://doi.org/10.3389/fcell.2025.1720996)
3. **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](https://doi.org/10.3389/fimmu.2025.1552665)
4. **Maltseva D**, Nersisyan A, Tonevitsky A (2025). Interplay of integrins and selectins in metastasis. *Mol Oncol*

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5. 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](https://doi.org/10.3389/fcell.2025.1508577)
 6. **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.bbtagrm.2024.195046](https://doi.org/10.1016/j.bbtagrm.2024.195046)
 7. 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](https://doi.org/10.3389/fmolb.2023.1327985)
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 10. 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](https://doi.org/10.1007/s10517-023-05826-x)
 11. 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](https://doi.org/10.3389/fgene.2022.1070528)
 12. Shilova N, Bovin N, **Maltseva D**, Polyakova S, Sablina M, Niwa H, Zakharova G, Raygorodskaya M, Bufeeva L, Belyi Y, Hushpulan D, Tonevitsky A (2022). Specificity of viscumin revised. As probed with a printed glycan array. *Biochimie* 202, 94–102, [10.1016/j.biochi.2022.08.009](https://doi.org/10.1016/j.biochi.2022.08.009)
 13. 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](https://doi.org/10.3390/biom12020295)
 14. 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](https://doi.org/10.3389/fgene.2021.791640)
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39. Khaustova NA, **Maltseva DV**, Oliveira-Ferrer L, Stürken C, Milde-Langosch K, Makarova JA, Rodin S, Schumacher U, Tonevitsky AG (2017). Selectin-independent adhesion during ovarian cancer metastasis. *Biochimie* 142, 197–206, [10.1016/j.biochi.2017.09.009](https://doi.org/10.1016/j.biochi.2017.09.009)
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