

Резюме: Мальцева Диана Васильевна



Адрес

Федеральное государственное
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Институт биоорганической химии им.
академиков М.М. Шемякина и Ю.А.
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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 в 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. **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)
2. **Maltseva D**, Nersisyan A, Tonevitsky A (2025). Interplay of integrins and selectins in metastasis. *Mol Oncol* , , [10.1002/1878-0261.70026](https://doi.org/10.1002/1878-0261.70026)
3. 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)
4. **Maltseva D**, Kirillov I, Zhiyanov A, Averinskaya D, Suvorov R, Gubani D, Kudriaeva A, Belogurov A,

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5. 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)
 6. **Maltseva DV**, Tonevitsky AG (2023). RNA-binding proteins regulating the CD44 alternative splicing. *Front Mol Biosci* 10, 1326148, [10.3389/fmolb.2023.1326148](https://doi.org/10.3389/fmolb.2023.1326148)
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 8. 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)
 9. 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)
 10. 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)
 11. 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)
 12. 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)
 13. **Maltseva DV**, Poloznikov AA, Artyushenko VG (2020). Selective changes in expression of integrin α -subunits in the intestinal epithelial Caco-2 cells under conditions of hypoxia and microcirculation. *Bulletin of Russian State Medical University* (06), 2020, [10.24075/brsmu.2020.078](https://doi.org/10.24075/brsmu.2020.078)
 14. Nersisyan SA, Galatenko AV, **Maltseva DV**, Ushkaryov YuA, Tonevitsky AG (2020). Interrelation between miRNA and mRNA expression in HT-29 line cells under hypoxia. *Bulletin of Russian State Medical University* (06), 2020, [10.24075/brsmu.2020.074](https://doi.org/10.24075/brsmu.2020.074)
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 16. **Maltseva DV**, Raigorodskaya MP, Zgoda VG, Tonevitsky EA, Knyazev EN (2020). Intracellular Transport of Ribosome-Inactivating Proteins Depends on Annexin 13. *Dokl Biochem Biophys* 494 (1), 219–221, [10.1134/S1607672920040092](https://doi.org/10.1134/S1607672920040092)
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 18. **Maltseva DV**, Raigorodskaya MP, Tikhonova OV, Knyazev EN, Tonevitsky EA (2020). Relationship between the Expression Level of PSMD11 and Other Proteasome Proteins with the Activity of Ricin and Viscumin. *Dokl Biochem Biophys* 493 (1), 198–200, [10.1134/S1607672920040080](https://doi.org/10.1134/S1607672920040080)
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39. Kudriaeva A, Galatenko VV, **Maltseva DV**, Khaustova NA, Kuzina E, Tonevitsky AG, Gabibov A, Belogurov A (2017). The transcriptome of type i murine astrocytes under interferon-gamma exposure and remyelination stimulus. *Molecules* 22 (5), , [10.3390/molecules22050808](https://doi.org/10.3390/molecules22050808)
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