

Резюме: Генералова Алла Николаевна

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/124>

Образование

2019– наст.вр.	Россия, Москва	Институт биоорганической химии им. М.М.	Диплом доктора химических наук
2000– 2000	Россия, Москва	Институт биоорганической химии им. М.М. Шемякина и Ю.А. Овчинникова	Диплом кандидата химических наук
1982– 1988	Россия, Москва	Московский институт тонкой химической технологии им. М.В. Ломоносова	Диплом химика

Работа в ИБХ

Заведующий лабораторией

Членство в советах и комиссиях ИБХ

Ученый совет

Научные интересы

Она является специалистом в области синтеза полимерных частиц для иммуноанализа, содержащих цветные, флуоресцентные или магнитные метки; модификации поверхности полимерных частиц с целью получения гибридных органо-неорганических микрочастиц; новых методов на основе реакции латексной агглютинации; биоспецифических реакций, межфазных слоев, монослоев. В настоящее время основное направление деятельности связано с биофункционализацией и использованием для решения задач тераностики неорганических наночастиц с антистоксовой флуоресценцией $\text{NaYF}_4:\text{Yb}^{3+}:\text{Er}^{3+}$ или Tm^{3+}

Степени и звания

Доктор наук (Химические науки, 03.00.23 — Биотехнология)

Гранты и проекты

2019–
наст.вр. [Скаффолды на основе модифицированной гиалуроновой кислоты с настраиваемыми свойствами для решения задач регенеративной медицины](#)

2018–
наст.вр. [Гибридные апконвертирующие наноструктуры для эффективного детектирования ИК-излучения, усиления сигнала и конверсии в видимый и ближний ИК диапазоны](#)

Публикации

1. Lakshmanan A, Akasov RA, Sholina NV, Demina PA, **Generalova AN**, Gangadharan A, Sardar DK, Lankamsetty KB, Khochenkov DA, Khaydukov EV, Gudkov SV, Jayaraman M, Jayaraman S (2021). Nanocurcumin-loaded UCNPs for cancer theranostics: Physicochemical properties, in vitro toxicity, and in vivo imaging studies. *Nanomaterials (Basel)* 11 (9), , [10.3390/nano11092234](https://doi.org/10.3390/nano11092234)

2. Sochilina AV, Savelyev AG, Akasov RA, Zubov VP, Khaydukov EV, **Generalova AN** (2021). Preparing Modified Hyaluronic Acid with Tunable Content of Vinyl Groups for Use in Fabrication of Scaffolds by Photoinduced Crosslinking. *Russ. J. Bioorganic Chem.* 47 (4), 828–836, [10.1134/S1068162021040191](https://doi.org/10.1134/S1068162021040191)
3. Demina PA, Sholina NV, Akasov RA, Khochenkov DA, Nechaev AV, Balalaeva IV, Khaydukov EV, **Generalova AN**, Deev SM (2021). Upconversion Nanoparticles Decorated with Polysialic Acid for Solid Tumors Visualization In Vivo. *Dokl Biochem Biophys* 497 (1), 81–85, [10.1134/S1607672921020034](https://doi.org/10.1134/S1607672921020034)
4. Sajti L, Karimov DN, Rocheva VV, Arkharova NA, Khaydukov KV, Lebedev OI, Voloshin AE, **Generalova AN**, Chichkov BN, Khaydukov EV (2020). Pulsed laser reshaping and fragmentation of upconversion nanoparticles — from hexagonal prisms to 1D nanorods through “Medusa”-like structures. *Nano Res* 14 (4), 1141–1148, [10.1007/s12274-020-3163-4](https://doi.org/10.1007/s12274-020-3163-4)
5. **(конференция)** Demina ПА, Sholina , Akasov , Arkharova , Grigoriev , Asharchuk , Nechaev , Khaydukov EB, **Generalova AN** (2020). 2020 International Conference Laser Optics (ICLO). , , [10.1109/ICLO48556.2020.9285550](https://doi.org/10.1109/ICLO48556.2020.9285550)
6. Karimov DN, Demina PA, Koshelev AV, Rocheva VV, Sokovikov AV, **Generalova AN**, Zubov VP, Khaydukov EV, Kovalchuk MV, Panchenko VY (2020). Upconversion Nanoparticles: Synthesis, Photoluminescence Properties, and Applications. *Nanotechnol Russ* 15 (11-12), 655–678, [10.1134/S1995078020060117](https://doi.org/10.1134/S1995078020060117)
7. Akasov RA, Demina PA, Zasedateleva VV, Sholina NV, Khochenkov DA, **Generalova AN**, Selvan JS, Khaydukov EV, Panchenko VY (2020). Nanosized Anti-Stokes Phosphors for Antitumor Drug Delivery and Solid Tumor Theranostics. *Dokl Biochem Biophys* 494 (1), 227–230, [10.1134/S1607672920050014](https://doi.org/10.1134/S1607672920050014)
8. Demina PA, Sholina NV, Akasov RA, Khochenkov DA, Arkharova NA, Nechaev AV, Khaydukov EV, **Generalova AN** (2020). A versatile platform for bioimaging based on colominic acid-decorated upconversion nanoparticles. *Biomater Sci* 8 (16), 4570–4580, [10.1039/d0bm00876a](https://doi.org/10.1039/d0bm00876a)
9. Krylov IV, Akasov RA, Rocheva VV, Sholina NV, Khochenkov DA, Nechaev AV, Melnikova NV, Dmitriev AA, Ivanov AV, **Generalova AN**, Khaydukov EV (2020). Local Overheating of Biotissue Labeled With Upconversion Nanoparticles Under Yb³⁺ Resonance Excitation. *Front Chem* 8, 295, [10.3389/fchem.2020.00295](https://doi.org/10.3389/fchem.2020.00295)
10. Mochalov KE, Agapova OI, **Generalova AN**, Vaskan IS, Soloveva DO, Oleinikov VA, Agapov II, Efimov AE (2020). Nanoscale Correlation Analysis of the Morphological, Optical, and Magnetic Structure of Polymer Microspheres for Multiplex Diagnostics. *TECH PHYS LETT+* 46 (3), 224–227, [10.1134/S1063785020030128](https://doi.org/10.1134/S1063785020030128)
11. Rocheva VV, Savelyev AG, Nechaev AV, **Generalova AN**, Semchishen VA, Zvyagin AV, Khaydukov EV (2019). Three-Dimensional Luminescence Tomographic Visualization of Biological Tissues. *Opt Spectrosc* 126 (1), 92–94, [10.1134/S0030400X19010144](https://doi.org/10.1134/S0030400X19010144)
12. Demina P, Arkharova N, Asharchuk I, Khaydukov K, Karimov D, Rocheva V, Nechaev A, Grigoriev Y, **Generalova A**, Khaydukov E (2019). Polymerization Assisted by Upconversion Nanoparticles under NIR Light. *Molecules* 24 (13), , [10.3390/molecules24132476](https://doi.org/10.3390/molecules24132476)
13. Akasov RA, Sholina NV, Khochenkov DA, Alova AV, Gorelkin PV, Erofeev AS, **Generalova AN**, Khaydukov EV (2019). Photodynamic therapy of melanoma by blue-light photoactivation of flavin mononucleotide. *Sci Rep* 9 (1), 9679, [10.1038/s41598-019-46115-w](https://doi.org/10.1038/s41598-019-46115-w)
14. Sochilina AV, Savelyev AG, Demina PA, Sizova SV, Zubov VP, Khaydukov EV, **Generalova AN** (2019). Quantitative detection of double bonds in hyaluronic acid derivative via permanganate ions reduction. *Meas Sci Technol* 30 (7), , [10.1088/1361-6501/ab0fb4](https://doi.org/10.1088/1361-6501/ab0fb4)
15. **Generalova AN**, Asharchuk IM, Zubov VP (2018). Multifunctional polymer dispersions for biomedical assays obtained by heterophase radical polymerization. *RUSS CHEM B+* 67 (10), 1759–1780, [10.1007/s11172-018-2289-y](https://doi.org/10.1007/s11172-018-2289-y)
16. **Генералова АН**, Ашарчук ИМ, Зубов ВП (2018). Мультифункциональные полимерные дисперсии для биомедицинских исследований, полученные в процессе гетерофазной радикальной полимеризации. *Известия Академии наук. Серия химическая* (10), 1759–1780.
17. **(конференция)** Savelyev AG, Semchishen VA, Nechaev AV, Khaydukov KV, Demina PA, **Generalova AN**, Khaydukov EV (2018). Near-infrared photopolymerization assisted by upconversion nanophosphors for biomedical applications. *EPJ Web of Conference* 190, 04018, [10.1051/epjconf/201819004018](https://doi.org/10.1051/epjconf/201819004018)
18. **(конференция)** Khaydukov E, Rocheva V, Savelyev A, Khaydukov K, Asharchuk I, Nechaev A, Khochenkov D, Sochilina A, Semchishen V, **Generalova A** (2018). Emerging upconversion nanoparticles for industry and

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19. (конференция) Sholina N, Demina P, Khochenkov D, **Generalova A**, Nechaev A, Khaydukov E (2018). Deep tumor imaging by upconversion nanoparticles. *EPJ Web of Conference* 190, 04020, [10.1051/epjconf/201819004020](https://doi.org/10.1051/epjconf/201819004020)
 20. (конференция) **Generalova A**, Mironova K, Sholina N, Rocheva V, Nechaev A, Grebenik E, Guller A, Zvyagin A, Deyev S, Zubov V, Khaydukov E (2018). Upconversion nanoparticles: On the way from diagnostics to theranostics. *EPJ Web of Conference* 190, 03001, [10.1051/epjconf/201819003001](https://doi.org/10.1051/epjconf/201819003001)
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 22. (конференция) Sochilina AV, Savelyev AG, Sholina NV, Karimov DN, Nechaev AV, Khaydukov EV, **Generalova AN** (2018). Nanohybrid scaffolds with luminescent remote control. *EPJ Web of Conference* 190, 04022, [10.1051/epjconf/201819004022](https://doi.org/10.1051/epjconf/201819004022)
 23. Guller AE, Nadort A, **Generalova AN**, Khaydukov EV, Nechaev AV, Kornienko IA, Petersen EV, Liang L, Shekhter AB, Qian Y, Goldys EM, Zvyagin AV (2018). Rational Surface Design of Upconversion Nanoparticles with Polyethylenimine Coating for Biomedical Applications: Better Safe than Brighter? *ACS Biomater Sci Eng* 4 (9), 3143–3153, [10.1021/acsbiomaterials.8b00633](https://doi.org/10.1021/acsbiomaterials.8b00633)
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 25. (конференция) Demina P, Sholina N, Khochenkov D, Asharchuk I, Rocheva V, Chichkov B, **Generalova AN**, Khaydukov E (2018). Multimodal magnetic-luminescent nanocomplexes based on upconversion nanoparticles for theranostics. *FEBS Open Bio* 8, 181–182.
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 27. (конференция) Миронова КЕ, Апарин ИО, Шипунова ВО, **Генералова АН**, Деев СМ (2018). UV-emitting upconversion nanoparticles for the treatment of estrogen-dependent tumors. *FEBS Open Bio* 8, 274–274.
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 35. **Generalova AN**, Zubov VP (2016). Dispersions of polyacrolein-based multifunctional microspheres for the creation of bioanalytical and visualizing reagents. *Polymer science USSR* 58 (4), 385–410,

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37. **Generalova AN**, Rocheva VV, Nechaev AV, Khochenkov DA, Sholina NV, Semchishen VA, Zubov VP, Koroleva AV, Chichkov BN, Khaydukov EV (2016). PEG-modified upconversion nanoparticles for in vivo optical imaging of tumors. *RSC Adv* 36 (6), 30089–30097, [10.1039/C5RA25304G](https://doi.org/10.1039/C5RA25304G)
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40. (конференция) Sizova S, **Generalova A**, Tretyak M, Mochalov K, Samokhvalov P, Nabiev I, Oleinikov V (2015). Submicron QDs-containing Particles as Nano-thermosensors. *Mater Today* 3 (2), 617–621, [10.1016/j.matpr.2016.01.099](https://doi.org/10.1016/j.matpr.2016.01.099)
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42. **Generalova AN**, Kochneva IK, Khaydukov EV, Semchishen VA, Guller AE, Nechaev AV, Shekhter AB, Zubov VP, Zvyagin AV, Deyev SM (2015). Submicron polyacrolein particles in situ embedded with upconversion nanoparticles for bioassay. *Nanoscale* 7 (5), 1709–1717, [10.1039/c4nr05908e](https://doi.org/10.1039/c4nr05908e)
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