

## Резюме: Акимов Михаил Геннадьевич

### 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	Россия, Москва	Институт биоорганической химии им. акад. М.М. Шемякина и Ю.А. Овчинникова РАН	канд. хим. наук
2007–2007	Россия, Пущино	Школа по конфокальной и электронной микроскопии, организованная фирмой Leica	сертификат о прохождении практики
2000–2005	Россия, Москва	Московский государственный университет им. М.В. Ломоносова, биологический факультет, кафедра биоорганической химии	диплом с отличием (специалист)

### Работа в ИБХ

2016–наст.вр.	Старший научный сотрудник
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### Членство в советах и комиссиях ИБХ

Профсоюзный комитет
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### Научные интересы

геронтология, теория эволюции, теоретическая биология, нейрoхимия, биология липидов, онкология

### Степени и звания

Кандидат наук (Химические науки, 03.00.04 — Биохимия)
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### Гранты и проекты

2023–наст.вр.	<a href="#">Взаимодействие противоположно направленных сигналов эндогенных биоактивных липидов лизофосфатидилинозита, анандамида и 2-арахидоноилглицерина в процессах регуляции пролиферации и смерти клеток рака молочной железы</a>
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### Публикации

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- Akimov MG**, Dudina PV, Vyunova TV, Kalueff AV, Gretskaya NM, Bezuglov VV (2024). Role of key endocannabinoids and their receptors in breast cancer. *Reviews on Clinical Pharmacology and Drug Therapy* 22 (1), 41–51, [10.17816/RCF623144](#)
- Gretskaya N, **Akimov M**, Andreev D, Zalygin A, Belitskaya E, Zinchenko G, Fomina-Ageeva E, Mikhalyov I,

- Vodovozova E, Bezuglov V (2023). Multicomponent Lipid Nanoparticles for RNA Transfection. *Pharmaceutics* 15 (4), , [10.3390/pharmaceutics15041289](https://doi.org/10.3390/pharmaceutics15041289)
4. **Akimov MG**, Gretskeya NM, Dudina PV, Sherstyanykh GD, Zinchenko GN, Serova OV, Degtyaryova KO, Deyev IE, Bezuglov VV (2023). The Mechanisms of GPR55 Receptor Functional Selectivity during Apoptosis and Proliferation Regulation in Cancer Cells. *Int J Mol Sci* 24 (6), , [10.3390/ijms24065524](https://doi.org/10.3390/ijms24065524)
  5. Kovshova T, Mantrov S, Boiko S, Malinovskaya J, Merkulova M, Osipova N, Moiseeva N, **Akimov M**, Dudina P, Senchikhin I, Ermolenko Y, Gelperina S (2023). Co-delivery of Paclitaxel and Etoposide Prodrug by Human Serum Albumin and PLGA nanoparticles: synergistic cytotoxicity in brain tumor cells. *J Microencapsul* 40 (4), 1–48, [10.1080/02652048.2023.2188943](https://doi.org/10.1080/02652048.2023.2188943)
  6. Kochetkov KA, Gorunova ON, Bystrova NA, Dudina PV, **Akimov MG** (2022). Synthesis and physiological activity of new imidazolidin-2-one bis-heterocyclic derivatives. *Russ Chem Bull* 71 (11), 2395–2403, [10.1007/s11172-022-3667-z](https://doi.org/10.1007/s11172-022-3667-z)
  7. Oshchepkov M, Kovalenko L, Kalistratova A, Ivanova M, Sherstyanykh G, Dudina P, Antonov A, Cherkasova A, **Akimov M** (2022). Anti-Proliferative and Cytoprotective Activity of Aryl Carbamate and Aryl Urea Derivatives with Alkyl Groups and Chlorine as Substituents. *Molecules* 27 (11), , [10.3390/molecules27113616](https://doi.org/10.3390/molecules27113616)
  8. Gamisonia AM, Yushina MN, Fedorovagogolina IA, **Akimov MG**, Eldarov CM, Pavlovich SV, Bezuglov VV, Gretskeya NM, Sukhikh GT, Bobrov MY (2021). N-Acyl Dopamines Induce Apoptosis in Endometrial Stromal Cells from Patients with Endometriosis. *Int J Mol Sci* 22 (19), , [10.3390/ijms221910648](https://doi.org/10.3390/ijms221910648)
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  10. **Akimov MG**, Gamisonia AM, Dudina PV, Gretskeya NM, Gaydaryova AA, Kuznetsov AS, Zinchenko GN, Bezuglov VV (2021). GPR55 Receptor Activation by the N-Acyl Dopamine Family Lipids Induces Apoptosis in Cancer Cells via the Nitric Oxide Synthase (nNOS) Over-Stimulation. *Int J Mol Sci* 22 (2), 1–24, [10.3390/ijms22020622](https://doi.org/10.3390/ijms22020622)
  11. Bandyopadhyaya S, **Akimov MG**, Verma R, Sharma A, Sharma D, Kundu GC, Gretskeya NM, Bezuglov VV, Mandal CC (2021). N-arachidonoyl dopamine inhibits epithelial-mesenchymal transition of breast cancer cells through ERK signaling and decreasing the cellular cholesterol. *J Biochem Mol Toxicol* 35 (4), e22693, [10.1002/jbt.22693](https://doi.org/10.1002/jbt.22693)
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  15. **Akimov MG**, Dudina PV, Fomina-Ageeva EV, Gretskeya NM, Bosaya AA, Rudakova EV, Makhaeva GF, Kagarlitsky GO, Eremin SA, Tsetlin VI, Bezuglov VV (2020). Neuroprotective and Antioxidant Activity of Arachidonoyl Choline, Its Bis-Quaternized Analogues and Other Acylcholines. *Dokl Biochem Biophys* 491 (1), 93–97, [10.1134/S1607672920020027](https://doi.org/10.1134/S1607672920020027)
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23. (конференция) **Akimov M**, Ashba A, Gretskaya N, Bezuglov V (2018). N-acyl dopamines (NADA) require a certain cellular cholesterol level to induce cell death. *FEBS Open Bio* 8 (Supp.), 75–ShT.23–2.
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40. **Акимов МГ** (2009). Мембраны и рак. , .
41. **Akimov MG**, Nazimov IV, Gretskaia NM, Zinchenko GN, Bezuglov VV (2009). Sulfation of N-acyl dopamines in rat tissues. *Biochemistry (Mosc)* 74 (6), 681–685, [10.1134/S0006297909060133](https://doi.org/10.1134/S0006297909060133)
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43. Bezuglov VV, Gretskaia NM, Klinov DV, Bobrov MI, Shibanova ED, **Akimov MG**, Fomina-Ageeva EV, Zinchenko GN, Bairamashvili DI, Miroshnikov AI (2009). Nanocomplexes of recombinant proteins and polysialic acid: preparation, characteristics, and biological activity. *Bioorg Khim* 35 (3), 350–356.
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