

## 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, нейрохимия, 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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- 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](#)
- Akimov MG**, Gretskaya 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)
4. 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)
  5. 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)
  6. 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)
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  8. **Akimov MG**, Fomina-Ageeva EV, Dudina PV, Andreeva LA, Myasoyedov NF, Bezuglov VV (2021). ACTH(6–9)PGP Peptide Protects SH-SY5Y Cells from H<sub>2</sub>O<sub>2</sub>, tert-Butyl Hydroperoxide, and Cyanide Cytotoxicity via Stimulation of Proliferation and Induction of Prosurvival-Related Genes. *Molecules* 26 (7), , [10.3390/molecules26071878](https://doi.org/10.3390/molecules26071878)
  9. **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)
  10. 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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  12. **Akimov MG**, Dudina PV, Gamisonia AM, Gretskeya NM, Zinchenko GN, Mandal CC, Bezuglov VV (2020). The Influence of the Cholesterol Level in Cells on Endovanilloid Cytotoxicity. *Dokl Biochem Biophys* 493 (1), 167–170, [10.1134/S1607672920040018](https://doi.org/10.1134/S1607672920040018)
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  20. **Akimov MG**, Ashba AM, Fomina-Ageeva EV, Gretskaya NM, Myasoedov NF, Bezuglov VV (2019). Neuroprotective Action of Amidic Neurolipins in Models of Neurotoxicity on the Culture of Human Neural-Like Cells SH-SY5Y. *Dokl Biochem Biophys* 485 (1), 141–144, [10.1134/S1607672919020182](https://doi.org/10.1134/S1607672919020182)
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39. **Акимов МГ** (2009). Мембраны и рак. . .
40. **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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42. 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.
43. Bezuglov VV, Gretskaia NM, Bobrov MI, **Akimov MG**, Fomina-Ageeva EV, Zinchenko GN, Bairamashvili DI, Miroshnikov AI (2009). Modification of recombinant proteins by covalent polysialation illustrated with the example of human insulin. *Bioorg Khim* 35 (2), 274–278.
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45. **Akimov MG**, Gretskaia NM, Shevchenko KV, Shevchenko VP, Miasoedov NF, Bobrov MI, Bezuglov VV (2008). New aspects of biosynthesis and metabolism of N-acyldopamines in rat tissues. *Bioorg Khim* 33 (6), 648–652.
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