

Curriculum vitae: Eugene Rogozhin



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Education

| | | | |
|-----------|----------------------------|--|------------|
| 2000–2005 | Russian Federation, Moscow | Timiryazev Russian State Agrarian University | Agronomist |
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Work experience

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| 2004–2005 | Russian Federation, Moscow region, Bykovo | All-Russian Plant Quarantine Center | Agronomist |
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IBCh positions

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| 2021–to date | Senior research fellow |
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Language Proficiency

Russian, English

Titles

Doctor of Philosophy (Chemistry)

Grants and projects

| | |
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| 2018–2023 | -Изучение антимикробных пептидов растений и грибов - биофунгицидов нового поколения |
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| 2018–2020 | - |
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Publications

1. Samarskaya VO, Koblova S, Suprunova T, **Rogozhin EA**, Spechenkova N, Yakunina S, Love AJ, Kalinina NO, Taliansky M (2025). Poly ADP-Ribosylation in a Plant Pathogenic Oomycete *Phytophthora infestans*: A Key Controller of Growth and Host Plant Colonisation. *J Fungi (Basel)* 11 (1), 29, [10.3390/jof11010029](https://doi.org/10.3390/jof11010029)
2. Zhuravleva AS, Volkova EN, Yamalova NR, Barashkova AS, **Rogozhin EA**, Yuryev GO, Vertebny VE, Dubovitskaya VI, Khomyakov YV, Udalova OR, Semenov KN, Panova GG (2024). Influence Of Nanocompositions Based On Light Fullerenes On The State And Productivity Of Tomato Dwarf Forms. *Agrophysica* (4), 16–29.
3. Siqin L, Nosov AM, **Rogozhin EA**, Gontcharov AA, Ling Y (2024). Effects of malonyl-ginsenosides on cell growth and saponin accumulation of *Polyscias fruticosa* and *Polyscias filicifolia*. *Zhong Cao Yao* 55 (23), 8171–8184, [10.7501/j.issn.0253-2670.2024.23.023](https://doi.org/10.7501/j.issn.0253-2670.2024.23.023)
4. Slavokhotova AA, Shelenkov AA, **Rogozhin EA** (2024). Computational Prediction and Structural Analysis of α -Hairpinins, a Ubiquitous Family of Antimicrobial Peptides, Using the Cysmotif Searcher Pipeline. *Antibiotics (Basel)* 13 (11), 1019, [10.3390/antibiotics13111019](https://doi.org/10.3390/antibiotics13111019)
5. Barashkova AS, Smirnov AN, **Rogozhin EA** (2024). Complex of Defense Polypeptides of Wheatgrass (*Elytrigia elongata*) Associated with Plant Immunity to Biotic and Abiotic Stress Factors. *Plants (Basel)* 13 (17), 2459, [10.3390/plants13172459](https://doi.org/10.3390/plants13172459)
6. Panova GG, Semenov KN, Artemieva AM, **Rogozhin EA**, Barashkova AS, Korniyukhin DL, Khomyakov YV,

- Balashov EV, Galushko AS, Vertebnyi VE, Zhuravleva AS, Volkova EN, Shpanev AM, Udaloa OR, Kanash EV (2024). Influence of Nanocompositions Based on Light Fullerene Derivatives on Cultural Plants under Favorable and Stress Conditions of Their Habitat. *TECH PHYS+* 69 (4), 996–1009, [10.1134/S1063784224030319](https://doi.org/10.1134/S1063784224030319)
7. Mizgina TO, Chikalovets IV, Bulanova TA, Molchanova VI, Filshtein AP, Ziganshin RH, **Rogozhin EA**, Shilova NV, Chernikov OV (2023). New I-Rhamnose-Binding Lectin from the Bivalve *Glycymeris yessoensis*: Purification, Partial Structural Characterization and Antibacterial Activity. *Mar Drugs* 22 (1), , [10.3390/md22010027](https://doi.org/10.3390/md22010027)
 8. Barashkova AS, **Rogozhin EA** (2023). The potential of plant antimicrobial peptides for crop protection against diseases. *PPT* 106 (3), 120–136, [10.31993/2308-6459-2023-106-3-15980](https://doi.org/10.31993/2308-6459-2023-106-3-15980)
 9. Barashkova AS, Ryazantsev DY, Zhuravleva AS, Sharoyko VV, **Rogozhin EA** (2023). Recombinant Fusion Protein Containing Plant Nigellothionin Regulates the Growth of Food-Spoiling Fungus (*Aspergillus niger*). *Foods* 12 (16), 3002, [10.3390/foods12163002](https://doi.org/10.3390/foods12163002)
 10. Gavrilov SN, Barashkova AS, Cherdyntseva TA, Prokofeva MI, Tresvyatskii OV, Lukianov DA, Nikandrova AA, Haertlé T, Merkel AYU, Bonch-Osmolovskaya EA, **Rogozhin EA** (2023). Search for Novel Halophilic and Halotolerant Producers of Antimicrobial Compounds in Various Extreme Ecosystems. *Microbiology* 92 (3), 342–357, [10.1134/S0026261723600313](https://doi.org/10.1134/S0026261723600313)
 11. Barashkova AS, Smirnov AN, Zorina ES, **Rogozhin EA** (2023). Diversity of Cationic Antimicrobial Peptides in Black Cumin (*Nigella sativa* L.) Seeds. *Int J Mol Sci* 24 (9), 8066, [10.3390/ijms24098066](https://doi.org/10.3390/ijms24098066)
 12. Kuvarina AE, Sukonnikov MA, **Rogozhin EA**, Serebryakova MV, Timofeeva AV, Georgieva ML, Sadykova VS (2023). Formation of Various Antimicrobial Peptide Emericellipisin Isoforms in *Emericellopsos alkalina* under Different Cultivation Conditions. *APPL BIOCHEM MICRO+* 59 (2), 160–167, [10.1134/S0003683823020060](https://doi.org/10.1134/S0003683823020060)
 13. Ryazantsev DY, Khodzhaev EY, Kuvarina AE, Barashkova AS, **Rogozhin EA** (2023). The Antifungal and Reactivation Activities of a Novel Glycine/Histidine-Rich Linear Peptide from Dog-Grass (*Elytrigia repens* (L.) Desv. Ex Nevski) Ears. *APPL BIOCHEM MICRO+* 59 (1), 41–47, [10.1134/S000368382301009X](https://doi.org/10.1134/S000368382301009X)
 14. Mizgina TO, Baldaev SN, Likhatskaya GN, Molchanova VI, Kokoulin MS, Filshtein AP, **Rogozhin EA**, Chikalovets IV, Isaeva MP, Chernikov OV (2023). Molecular Cloning and Characteristics of a Lectin from the Bivalve *Glycymeris yessoensis*. *Mar Drugs* 21 (2), 55, [10.3390/md21020055](https://doi.org/10.3390/md21020055)
 15. Panova GG, Semenov KN, Artemieva AM, **Rogozhin EA**, Barashkova AS, Kornukhin DL, Khomyakov YV, Balashov EV, Galushko AS, Vertebnyi VE, Zhuravleva AS, Volkova EN, Shpanev AM, Udaloa OD, Kanash EV (2022). Influence of nanocompositions based on light fullerene derivatives on cultural plants under favorable and stress conditions of their habitat. *TECH PHYS+* 92 (7), 871–884, [10.21883/TP.2022.07.54485.344-21](https://doi.org/10.21883/TP.2022.07.54485.344-21)
 16. Kalina RS, Gladkikh IN, Klimovich AA, Kozhevnikova YV, Kvetkina AN, **Rogozhin EA**, Koshelev SG, Kozlov SA, Leychenko EV (2022). First Anti-Inflammatory Peptide AnmTX Sco 9a-1 from the Swimming Sea Anemone *Stomphia coccinea*. *Biomolecules* 12 (11), , [10.3390/biom12111705](https://doi.org/10.3390/biom12111705)
 17. Poshvina DV, Dilbaryan DS, Kasyanov SP, Sadykova VS, Lapchinskaya OA, **Rogozhin EA**, Vasilchenko AS (2022). *Staphylococcus aureus* is able to generate resistance to novel lipoglycopeptide antibiotic gausemycin A. *Front Microbiol* 13, 963979, [10.3389/fmicb.2022.963979](https://doi.org/10.3389/fmicb.2022.963979)
 18. Buchelnikova VA, **Rogozhin EA**, Barashkova AS, Buchelnikov AS, Evstigneev MP (2022). C60 Fullerene Clusters Stabilize the Biologically Inactive Form of Topotecan. *Chem Res Toxicol* 35 (9), 1482–1492, [10.1021/acs.chemrestox.2c00071](https://doi.org/10.1021/acs.chemrestox.2c00071)
 19. Vasilchenko AS, Poshvina DV, Sidorov RY, Iashnikov AV, **Rogozhin EA**, Vasilchenko AV (2022). Oak bark (*Quercus* sp. cortex) protects plants through the inhibition of quorum sensing mediated virulence of *Pectobacterium carotovorum*. *World J Microbiol Biotechnol* 38 (11), 184, [10.1007/s11274-022-03366-6](https://doi.org/10.1007/s11274-022-03366-6)
 20. Kuvarina AE, **Rogozhin EA**, Sykonnikov MA, Timofeeva AV, Serebryakova MV, Fedorova NV, Kokaeva LY, Efimenko TA, Georgieva ML, Sadykova VS (2022). Isolation and Characterization of a Novel Hydrophobin, Sa-HFB1, with Antifungal Activity from an Alkaliphilic Fungus, *Sodiomyces alkalinus*. *J Fungi (Basel)* 8 (7), , [10.3390/jof8070659](https://doi.org/10.3390/jof8070659)
 21. Kuvarina AE, Roshka YA, **Rogozhin EA**, Nikitin DA, Kurakov AV, Sadykova VS (2022). Antimicrobial Properties and the Effect of Temperature on the Formation of Secondary Metabolites in Psychrophilic Micromycetes. *APPL BIOCHEM MICRO+* 58 (3), 243–250, [10.1134/S0003683822030085](https://doi.org/10.1134/S0003683822030085)

22. Barashkova AS, Ryazantsev DY, **Rogozhin EA** (2022). Rational Design of Plant Hairpin-like Peptide EcAMP1: Structural–Functional Correlations to Reveal Antibacterial and Antifungal Activity. *Molecules* 27 (11), , [10.3390/molecules271113554](https://doi.org/10.3390/molecules271113554)
23. Kuvarina AE, Gavryushina IA, Sykonnikov MA, Efimenko TA, Markelova NN, Bilanenko EN, Bondarenko SA, Kokaeva LY, Timofeeva AV, Serebryakova MV, Barashkova AS, **Rogozhin EA**, Georgieva ML, Sadykova VS (2022). Exploring Peptaibol's Profile, Antifungal, and Antitumor Activity of Emericellipsin A of Emericellopsis Species from Soda and Saline Soils. *Molecules* 27 (5), , [10.3390/molecules27051736](https://doi.org/10.3390/molecules27051736)
24. **(conference) Rogozhin EA** (2021). НОВЫЙ КОМПЛЕКС ПРОТИВОГРИБКОВЫХ АНТИБИОТИКОВ, ПРОДУЦИРУЕМЫХ STREPTOMYCES HYGROSCOPICUS ИЗ КОЛЛЕКЦИИ НИИНА ИМ. Г.Ф. ГАУЗЕ. , , [10.19163/MedChemRussia2021-2021-156](https://doi.org/10.19163/MedChemRussia2021-2021-156)
25. **(conference) Rogozhin EA**, Ryazantsev DY, Zavriev SK, Sadykova VS (2021). Novel hevein-like defense peptides from wild cereals. *FEBS Open Bio* 256 (S1), 384, <https://doi.org/10.1002/2211-5463.13205>
26. **(conference) Barashkova AS**, Ryazantsev DY, Sadykova VS, Zavriev SK, **Rogozhin EA** (2021). Thionins from blackseed (*Nigella sativa* L.) with multiple activity. *FEBS Open Bio* (S1), 384, <https://doi.org/10.1002/2211-5463.13205>
27. Beliaev DV, Yuorieva NO, Tereshonok DV, Tashlieva II, Derevyagina MK, Meleshin AA, **Rogozhin EA**, Kozlov SA (2021). High Resistance of Potato to Early Blight Is Achieved by Expression of the Pro-SmAMP1 Gene for Hevein-Like Antimicrobial Peptides from Common Chickweed (*Stellaria media*). *Plants (Basel)* 10 (7), , [10.3390/plants10071395](https://doi.org/10.3390/plants10071395)
28. Tyurin A, Alferova V, Paramonov A, Shuvalov M, Kudryakova G, **Rogozhin E**, Zherebker A, Brylev V, Chistov A, Baranova A, Birykov M, Ivanov I, Prokhorenko I, Grammatikova N, Kravchenko T, Isakova E, Mirchink E, Gladkikh E, Svirshchevskaya E, Mardanov A, Beletsky A, Kocharovskaya M, Kulyaeva V, Shashkov A, Nifantiev N, Apt A, Majorov K, Efimova S, Ravin N, Nikolaev E, Ostroumova O, Katrukha G, Lapchinskaya O, Dontsova O, Terekhov S, Osterman I, Shenkarev Z, Korshun VA (2021). Gausemycins A,B – cyclic lipoglycopeptides from *Streptomyces* sp. *Angew Chem Int Ed Engl* 60 (34), 18694–18703, [10.1002/anie.202104528](https://doi.org/10.1002/anie.202104528)
29. **(conference) Sadykova VS**, Gavrushina IA, Georgieva ML, Kuvarina AE, **Rogozhin EA** (2021). Novel Antifungal Peptaibols Emericellipsins A-E with Anticancer and Antibiofilm Potential from an alkalophilic fungus *Emericellopsis alkalina*. *Conference Proceedings Paper of The 1st International Electronic Conference on Antibiotics (ECA 2021)* , , [doi:10.3390/ECA2021-09748](https://doi.org/10.3390/ECA2021-09748)
30. Kuvarina AE, Georgieva ML, **Rogozhin EA**, Kulko AB, Gavryushina IA, Sadykova VS (2021). Antimicrobial Potential of the Alkalophilic Fungus *Sodiomyces alkalinus* and Selection of Strains–Producers of New Antimicrobial Compound. *APPL BIOCHEM MICRO+ 57* (1), 86–93, [10.1134/S0003683821010142](https://doi.org/10.1134/S0003683821010142)
31. Kuvarina AE, Gavryushina IA, Kulko AB, Ivanov IA, **Rogozhin EA**, Georgieva ML, Sadykova VS (2021). The Emericellipsins A–E from an Alkalophilic Fungus *Emericellopsis alkalina* Show Potent Activity against Multidrug-Resistant Pathogenic Fungi. *J Fungi (Basel)* 7 (2), 1–17, [10.3390/jof7020153](https://doi.org/10.3390/jof7020153)
32. Barashkova AS, Sadykova VS, Salo VA, Zavriev SK, **Rogozhin EA** (2021). Nigellothionins from Black Cumin (*Nigella sativa* L.) Seeds Demonstrate Strong Antifungal and Cytotoxic Activity. *Antibiotics (Basel)* 10 (2), 1–15, [10.3390/antibiotics10020166](https://doi.org/10.3390/antibiotics10020166)
33. Solovyev MM, Kashinskaya EN, **Rogozhin EA**, Moyano FJ (2021). Seasonal changes in kinetic parameters of trypsin in gastric and agastric fish. *Fish Physiol Biochem* 47 (2), 381–391, [10.1007/s10695-020-00919-0](https://doi.org/10.1007/s10695-020-00919-0)
34. Barashkova AS, **Rogozhin EA** (2020). Isolation of antimicrobial peptides from different plant sources: Does a general extraction method exist? *Plant Methods* 16 (1), 143, [10.1186/s13007-020-00687-1](https://doi.org/10.1186/s13007-020-00687-1)
35. **Rogozhin EA**, Vasilchenko AS, Barashkova AS, Smirnov AN, Zavriev SK, Demushkin VP (2020). Peptide Extracts from Seven Medicinal Plants Discovered to Inhibit Oomycete a Causative Agent of Potato Late Blight Disease. *Plants (Basel)* 9 (10), 1–15, [10.3390/plants9101294](https://doi.org/10.3390/plants9101294)
36. Vasilchenko AS, Julian WT, Lapchinskaya OA, Katrukha GS, Sadykova VS, **Rogozhin EA** (2020). A Novel Peptide Antibiotic Produced by *Streptomyces roseoflavus* Strain INA-Ac-5812 With Directed Activity Against Gram-Positive Bacteria. *Front Microbiol* 11, 556063, [10.3389/fmicb.2020.556063](https://doi.org/10.3389/fmicb.2020.556063)
37. Efimenko TA, Glukhova AA, Demiankova MV, Boykova YV, Malkina ND, Sumarukova IG, Vasilieva BF, **Rogozhin EA**, Ivanov IA, Krassilnikov VA, Efremenkova OV (2020). Antimicrobial Activity of Microorganisms Isolated from Ant Nests of *Lasius niger*. *Life (Basel)* 10 (6), 1–16, [10.3390/life10060091](https://doi.org/10.3390/life10060091)

38. **(conference)** Beliaev DV, **Rogozhin EA**, Meleshin AA, Tereshonok DV, Derevyagina MK, Yureva NO, Tashlieva II, Djalilov FS, Voronkova EV (2020). NsD3, a Defensin from *Nigella sativa*, Confers High Resistance of Several Commercial Potato Varieties to Fungi and Bacteria. *In Vitro Cell Dev Biol Anim* 56 (S1), S46, <https://doi.org/10.1007/s11626-020-00455-4>
39. Sadykova VS, Gavryushina IA, Kuvarina AE, Markelova NN, Sedykh NG, Georgieva ML, Barashkova AC, **Rogozhin EA** (2020). Antimicrobial Activity of the Lipopeptide Emericellipsin A Isolated from *Emericellopsis alkalina* against Biofilm-Forming Bacteria. *APPL BIOCHEM MICRO+* 56 (3), 292–297, [10.1134/S0003683820030102](https://doi.org/10.1134/S0003683820030102)
40. Tretyakova IN, **Rogozhin EA**, Pak ME, Petukhova IA, Shuklina AS, Pahomova AP, Sadykova VS (2020). Use of Plant Antimicrobial Peptides in in vitro Embryogenic Cultures of *Larix sibirica*. *Biol Bull Acad Sci USSR* 47 (3), 225–236, [10.1134/S1062359020030097](https://doi.org/10.1134/S1062359020030097)
41. Slavokhotova AA, **Rogozhin EA** (2020). Defense Peptides From the α -Hairpinin Family Are Components of Plant Innate Immunity. *Front Plant Sci* 11, 465, [10.3389/fpls.2020.00465](https://doi.org/10.3389/fpls.2020.00465)
42. **(conference) Rogozhin EA**, Барашкова АС, Деженкова ЛГ, Садыкова ВС (2019). Антимикробные пептиды из семейства тионинов, выделенные из семян черного тмина (*Nigella sativa* L.), обладают цитотоксичностью по отношению к линиям опухолевых клеток in vitro. *Успехи молекулярной онкологии* 6 (S4), 158–159.
43. Pechelyulko AA, Tarakanova YN, Dmitriev DA, Massino YS, Kost VY, **Rogozhin EA**, Segal OL, Dmitriev AD (2019). Comparative Analysis of the Efficiency of Chicken and Rabbit Antibodies in Competitive Enzyme Linked Immunoassay for the Detection of Bovine Beta-Casomorphin 7. *APPL BIOCHEM MICRO+* 55 (6), 704–710, [10.1134/S0003683819060103](https://doi.org/10.1134/S0003683819060103)
44. **Rogozhin EA**, Solovyev MM, Frolova TV, Izvekova GI (2019). Isolation and partial structural characterization of new Kunitz-type trypsin inhibitors from the pike cestode *Triaenophorus nodulosus*. *Mol Biochem Parasitol* 233, 111217, [10.1016/j.molbiopara.2019.111217](https://doi.org/10.1016/j.molbiopara.2019.111217)
45. Timofeev S, Mitina G, **Rogozhin E**, Dolgikh V (2019). Expression of spider toxin in entomopathogenic fungus *Lecanicillium muscarium* and selection of the strain showing efficient secretion of the recombinant protein. *FEMS Microbiol Lett* 366 (14), , [10.1093/femsle/fnz181](https://doi.org/10.1093/femsle/fnz181)
46. **(conference) Rogozhin EA** (2019). Diversity of proline/hydroxyproline-rich glycopeptides from dandelion (*Taraxacum officinale*) flowers with high specific antimicrobial activity against pigment-generating plant pathogenic fungi. *FEBS Open Bio* 9 (S1), 311, <https://doi.org/10.1002/2211-5463.12675>
47. **(conference) Beliaev DV, Rogozhin EA, Tereahonok DV, Derevyagina MK, Yureva NO, Voronkova EV** (2019). Expression of a *Nigella sativa* Defensin in Potato for Improved Resistance to Early Blight. *In Vitro Cell Dev Biol Anim* 55 (S1), S56, [10.1007/s11626-019-00345-4](https://doi.org/10.1007/s11626-019-00345-4)
48. Belova MM, Shipunova VO, Kotelnikova PA, Babenyshev AV, **Rogozhin EA**, Cherednichenko MY, Deyev SM (2019). «Green» Synthesis of Cytotoxic Silver Nanoparticles Based on Secondary Metabolites of *Lavandula Angustifolia* Mill. *Acta Naturae* 11 (2), 47–53, [10.32607/20758251-2019-11-2-47-53](https://doi.org/10.32607/20758251-2019-11-2-47-53)
49. Vasilchenko AS, **Rogozhin EA** (2019). Sub-inhibitory Effects of Antimicrobial Peptides. *Front Microbiol* 10 (MAY), 1160, [10.3389/fmicb.2019.01160](https://doi.org/10.3389/fmicb.2019.01160)
50. Efremenkova OV, Gabrielyan NI, Malanicheva I, Demiankova M, Efimenko T, **Rogozhin EA**, Sharapchenko S, Krupenio T, Davydov D, Kornilov M (2019). Antimicrobial Properties of the Probiotic Strain *Bacillus Subtilis* 534. *International Archives of Medical Microbiology* (2), 008.
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52. Ryazantsev DY, **Rogozhin EA**, Tsvetkov VO, Yarullina LG, Smirnov AN, Zavriev SK (2019). Diversity of Harpin-Like Defense Peptides from Barnyard Grass (*Echinochloa crusgalli* L.) Seeds. *Dokl Biochem Biophys* 484 (1), 6–8, [10.1134/S1607672919010022](https://doi.org/10.1134/S1607672919010022)
53. **Rogozhin EA**, Vorobeva LI, Khodzhaev EY, Gerasimov ES (2019). Optimized Fractioning and Structure Analysis of the Reactivating Factor from *Luteococcus japonicus* subsp. *casei*. *Microbiology* 88 (2), 132–136, [10.1134/S0026261719020097](https://doi.org/10.1134/S0026261719020097)
54. Baranova AA, **Rogozhin EA**, Georgieva ML, Bilanenko EN, Kulko AB, Yakushev AV, Alferova VA, Sadykova VS (2019). Antimicrobial Peptides Produced by Alkaliphilic Fungi *Emericellopsis alkalina*: Biosynthesis and

- Biological Activity Against Pathogenic Multidrug-Resistant Fungi. *APPL BIOCHEM MICRO+* 55 (2), 145–151, [10.1134/S0003683819020030](https://doi.org/10.1134/S0003683819020030)
55. Alferova VA, Shuvalov MV, Suchkova TA, Proskurin GV, Aparin IO, **Rogozhin EA**, Novikov RA, Solyev PN, Chistov AA, Ustinov AV, Tyurin AP, Korshun VA (2018). 4-Chloro-L-kynurenine as fluorescent amino acid in natural peptides. *Amino Acids* 50 (12), 1697–1705, [10.1007/s00726-018-2642-3](https://doi.org/10.1007/s00726-018-2642-3)
 56. Alferova VA, Novikov RA, Bychkova OP, **Rogozhin EA**, Shuvalov MV, Prokhorenko IA, Sadykova VS, Kulko AB, Dezhenskova LG, Stepashkina EA, Efremov MA, Sineva ON, Kudryakova GK, Peregudov AS, Solyev PN, Tkachev YV, Fedorova GB, Terekhova LP, Tyurin AP, Trenin AS, Korshun VA (2018). Astolides A and B, antifungal and cytotoxic naphthoquinone-derived polyol macrolactones from *Streptomyces hygroscopicus*. *Tetrahedron* 74 (52), 7442–7449, [10.1016/j.tet.2018.11.015](https://doi.org/10.1016/j.tet.2018.11.015)
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 59. Vasilchenko AS, Gritsenko VA, Kosyan DB, **Rogozhin EA** (2018). A Low-Molecular-Weight Compound Derived from Human Leukocytes Determines a Bactericidal Activity of the Interferon Preparation. *Probiotics Antimicrob Proteins* 11 (3), 999–1008, [10.1007/s12602-018-9463-2](https://doi.org/10.1007/s12602-018-9463-2)
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