

Сведения о научном руководителе диссертации

Филатова Вадима Евгеньевича

«Спиро- и диспиро-индолинон- β -лактамы: синтез и исследование биологической активности»

Научный руководитель: Белоглазкина Елена Кимовна

Ученая степень: доктор химических наук

Ученое звание: доцент

Должность: профессор кафедры органической химии химического факультета Московского государственного университета имени М.В. Ломоносова»

Место работы: Федеральное государственное бюджетное образовательное учреждение высшего образования «Московский государственный университет имени М.В. Ломоносова», Химический факультет, Кафедра органической химии

Адрес места работы: 119991, Москва, Ленинские горы, дом 1, строение 3, ГСП-1, МГУ, химический факультет

Тел.: +7(495)-939-40-20

E-mail: bel@org.chem.msu.ru

Список основных научных публикаций по специальности «Органическая химия» за последние 5 лет:

1. Kukushkin M.E., Karpov N. A., Shybanov D. E., Zyk N. V., **Beloglazkina E. K.** A convenient synthesis of 3-aryl-5-methylidene-2-thiohydantoin. *Mendeleev Communications*, **2022**, 32, 126-128
2. Filatov V.E., Yuzabchuk D.A., Tafeenko V.A., Grishin Y.K., Roznyatovsky V.A., Lukianov D.A., Fedotova Y.A., Sukonnikov M.A., Skvortsov D.A., Zyk N.V., **Beloglazkin E.K.** Dispirooxindole- β -Lactams: synthesis via Staudinger ketene-imine cycloaddition and biological evaluation // *Int. J. Mol. Sci.*, 2022, vol. 23, № 12, 6666.
3. Barashkin A.A., Polyakov V.S., Shikut N.L., Putilova A.D., Gorovoy A.R., Degtiarev A.D., Tafeenko V.A., Tarasevich B. N., Zyk N. V., **Beloglazkina E. K.** Diastereoselective cycloaddition of isatin azomethine ylides to 5-arylidene-2-thiohydantoin bearing 3-positioned chiral substituent. *Mendeleev Communications*, **2022**, 32, 2, 221-223
4. Kukushkin M.E., Kondratieva A. A., Karpov N.A., Shybanov D.E., Tafeenko V.A., Roznyatovsky V.A., Grishin Yu.K., Moiseeva A.A., Zyk N.V., **Beloglazkina E.K.** [3+2]-Cycloaddition of azomethine ylides to 5-methylidene-3-aryl-2-chalcogen-imidazolones: access to dispiro indolinone-pyrrolidine-imidazolones. *Royal Society Open Science*, **2022**, 31, 246-247
5. Kukushkin M.E., Kondratieva A.A., Karpov N.A., Shybanov D.E., Tafeenko V.A., Roznyatovsky V.A., Grishin Yu.K., Moiseeva A.A., Zyk N.V., **Beloglazkina E.K.** [3+2]-Cycloaddition of azomethine ylides to 5-methylidene-3-aryl-2-chalcogen-imidazolones: access to dispiro indolinone-pyrrolidine-imidazolones. *Royal Society Open Science*, 9, 3, 211967
6. Machulkin A.E., Uspenskaya A.A., Zyk N.Y., Nimenko E.A., Ber A.P., Petrov S.A., Shafikov R.R., Skvortsov D.A., Smirnova G.B., Borisova Y.A., Pokrovsky V.S., Kolmogorov V.S., Vaneev A.N., Ivanenkov Y.A., Khudyakov A.D., Kovalev S.V., Erofeev A.S., Gorelkin P.V., **Beloglazkina E.K.**, Zyk N.V., Khazanova E.S., Majouga A.G. PSMA-targeted small-molecule docetaxel conjugate: Synthesis and preclinical evaluation. *European Journal of Medicinal Chemistry*, **2022**, 227, 113936.
7. Yamansarov E.Yu., Lopatukhina E.V., Evteev S. A., Skvortsov D.A., Lopukhov A.V., Kovalev S.V., Vaneev A.N., Shkil' D.O., Akasov R.A., Lobov A.N., Naumenko V.A., Pavlova E.N., Ryabaya O.O., Burenina O.Yu., Ivanenkov Y.A., Klyachko N.L., Erofeev A.S., Gorelkin P.V., **Beloglazkina E.K.**, Majouga A.G. Discovery of Bivalent GalNAc-Conjugated Betulin as a Potent ASGPR-Directed Agent against Hepatocellular Carcinoma. *Bioconjugate Chemistry*, **2021**, 32, 4, 763-781
8. Novotortsev V.K., Kukushkin M.E., Tafeenko V.A., Skvortsov D.A., Kalinina M.A., Timoshenko R.V., Chmelyuk N.S., Vasilyeva L.A., Tarasevich B.N., Gorelkin P.V., Erofeev A.S., Majouga A.G., Zyk N.V., **Beloglazkina E.K.** Dispirooxindoles Based on 2-Selenoxo-Imidazolidin-4-

Ones: Synthesis, Cytotoxicity and ROS Generation Ability. \ \ *International Journal of Molecular Sciences*, **2021**, 22, 5, 2613

9. Petrov R.A., Mefedova S.R., Yamansarov E.Yu., Maklakova S.Yu., Grishin D. A., Lopatukhina E.V., Burenina O.Y., Lopukhov A.V., Kovalev S.V., Timchenko Yu.V., Ondar E.E., Ivanenkov Y.A., Evteev S.A., Vaneev A.N., Timoshenko R.V., Klyachko N.L., Erofeev A.S., Gorelkin P.V., **Beloglazkina E.K.**, Majouga A.G. New small-molecule glycoconjugates of docetaxel and GalNAc for targeted delivery to hepatocellular carcinoma. \ \ *Molecular Pharmaceutics*, **2021**, 18,1,461-468

10. Kukushkin M.E., Novotortsev V.K., Filatov V.E., Ivanenkov Y.A., Skvortsov D.A., Veselov M.S., Shafikov R.R., Moiseeva A.A., Zyk N.V., Majouga A.G, **Beloglazkina E.K.** Synthesis and Biological Evaluation of S-, O- and Se-Containing Dispirooxindoles. \ \ *Molecules*, **2021**, 26, 24, 7645

11. Filatov V.E., Kuznetsova J.V., Petrovskaya L.M., Yuzabchuk D.A., Tafenko V.A., Zyk N.V., **Beloglazkina E.K.** *cis*-Diastereoselective synthesis of spirooxindolo- β -lactams by Staudinger cycloaddition with TsCl as activating co-reagent // *ACS Omega*, 2021, vol. 6, № 35, p. 22740–22751.

12. Machulkin A.E., Uspenskaya A.A., Zyk N.U., Nimenko E.A., Ber A.P., Petrov S.A., Polshakov V.I., Shafikov R.R., Skvortsov D.A., Plotnikova E.A., Pankratov A.A., Smirnova G.B., Borisova Yu.A., Pokrovsky V.S., Kolmogorov V.S., Vaneev A.N., Khudyakov A.D., Chepikova O.E., Kovalev S.V., Zamyatin A.A., Erofeev A.S., Gorelkin P.V., **Beloglazkina E.K.**, Zyk N.V., Khazanova E.S., Majouga A.G. Synthesis, characterization and preclinical evaluation of small-molecule prostate-specific membrane antigen targeted monomethyl auristatin E conjugate. \ \ *Journal of Medicinal Chemistry*, **2021**, 64, 23, 17123- 17145

13. Guk D.A., Krasnovskaya O.O., Zyk N.V., **Beloglazkina E.K.** Convenient Synthesis of 2-Thioimidazolone/Menadione Conjugates via a Two-Step Sequence Starting with Direct Amination of Menadione. \ \ *SynOpen*, **2020**, 4, 2, 38-43

14. Filatov V.E., Kukushkin M.E., Kuznetsova J.V., Skvortsov D.A., Tafenko V.A., Zyk N.V., Majouga A.G., **Beloglazkina E.K.** Synthesis of 1,3-diaryl-spiro[azetidino-2,3'-indoline]-2',4'-diones via the Staudinger reaction: *cis*- or *trans*- diastereoselectivity with different addition modes \ \ *RSC Advances*, 2020, vol. 10, № 24, p. 14122–14133

15. Beloglazkina A.A., Zyk N.V., Majouga A.G., **Beloglazkina E.K.** Recent Small-Molecule Inhibitors of the p53–MDM2 Protein–Protein Interaction. \ \ *Molecules*, **2020**, 25, 5, 2011-2027

16. Finko A.V., Skvortsov D.A., Laikov D.N., Averochkin G.M., Dlin E.A., Kalinina M.A., Aladinskiy V.A., Vorobyeva N.S., Mironov A.V., **Beloglazkina E.K.**, Zyk N.V., Ivanenkov Y.A., Majouga A.G. Synthesis and biological activity of 5-arylidene-2-thiohydantoin S-aryl derivatives. \ \ *Bioorganic Chemistry*, **2020**, 100, 103900

17. Kukushkin M.E., Skvortsov D.A., Kalinina M.A., Tafenko V.A., Burmistrov V.V., Butov G.M., Zyk N.V., Majouga A.G., **Beloglazkina E.K.** Synthesis and cytotoxicity of oxindoles dispiro derivatives with thiohydantoin and adamantane fragments. \ \ *Phosphorus, Sulfur and Silicon and the Related Elements*, **2020**, 195, 7, 544-555

18. Machulkin A.E., Skvortsov D.A., Ivanenkov Y.A., Ber A.P., Kavalchuk M. V., Aladinskaya A.V., Uspenskaya A.A., Shafikov R.R., Plotnikova E.A., Yakubovskaya R.I., Nimenko E.A., Zyk N.U., **Beloglazkina E.K.**, Zyk N.V., Koteliansky V.E., Majouga A.G. Synthesis and biological evaluation of PSMA-targeting paclitaxel conjugates. \ \ *Bioorganic and Medicinal Chemistry Letters*, **2019**, 29, 16, 2229-2235

19. Beloglazkina A.A., Karpov N.A., Mefedova S.R., Polyakov V.S., Skvortsov D.A., Kalinina M.A., Tafenko V.A., Majouga A.G., Zyk N.V., **Beloglazkina E.K.** Synthesis of dispirooxindoles containing N-unsubstituted heterocyclic moieties and study of their anticancer activity. \ \ *Russian Chemical Bulletin*, **2019**, 68, 5, 1006-1013

20. Krasnovskaya O.O., Malinnikov V.M., Dashkova N.S., Gerasimov V.M., Grishina I.V., Kireev I.I., Lavrushkina S.V., Panchenko P.A., Zakharko M. A., Ignatov P. A., Fedorova O. A., Jonusauskas G., Skvortsov D. A., Kovalev S.V., **Beloglazkina E.K.**, Zyk N.V., Majouga A.G. Thiourea Modified Doxorubicin: A Perspective pH-Sensitive Prodrug. *Bioconjugate Chemistry*, **2019**, 30, 3, 741-750.