

Сведения об оппоненте

диссертационной работы Шлеевой Маргариты Олеговны «Особенности биохимии и физиологии покоящихся микобактерий», представленной на соискание ученой степени доктора биологических наук по специальности 03.01.04 Биохимия.

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Ученая степень: доктор химических наук

Ученое звание: профессор, академик РАН

Шифр научной специальности: 03.00.03 Молекулярная биология

Должность: ВРИО директора ИБХ РАН

Основное место работы: Федеральное государственное бюджетное учреждения науки Институт биоорганической химии им. академиков М.М. Шемякина и Ю.А. Овчинникова Российской академии наук, адрес:

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Основные работы по профилю оппонируемой диссертации

1) Towards effective COVID-19 vaccines: Updates, perspectives and challenges (Review).

Calina D, Docea AO, Petrakis D, Egorov AM, Ishmukhametov AA, Gabibov AG, Shtilman MI, Kostoff R, Carvalho F, Vinceti M, Spandidos DA, Tsatsakis A.

Int J Mol Med. 2020 Jul;46(1):3-16. doi: 10.3892/ijmm.2020.4596. Epub 2020 May 6.

2) Autocrine-based selection of ligands for personalized CAR-T therapy of lymphoma.

Stepanov AV, Markov OV, Chernikov IV, Gladkikh DV, Zhang H, Jones T, Sen'kova AV, Chernolovskaya EL, Zenkova MA, Kalinin RS, Rubtsova MP, Meleshko AN, Genkin DD, Belogurov AA Jr, Xie J, Gabibov AG, Lerner RA.

Sci Adv. 2018 Nov 14;4(11):eaau4580. doi: 10.1126/sciadv.aau4580. eCollection 2018 Nov.

3) Ultrahigh-throughput functional profiling of microbiota communities.

Terekhov SS, Smirnov IV, Malakhova MV, Samoilo AE, Manolov AI, Nazarov AS, Danilov DV, Dubiley SA, Osterman IA, Rubtsova MP, Kostryukova ES, Ziganshin RH, Kornienko MA, Vanyushkina AA, Bukato ON, Ilina EN, Vlasov VV, Severinov KV, Gabibov AG, Altman S.

Proc Natl Acad Sci U S A. 2018 Sep 18;115(38):9551-9556. doi: 10.1073/pnas.1811250115. Epub 2018 Sep 4.

4) Peptides Against Autoimmune Neurodegeneration.

Stepanov A, Lomakin Y, Gabibov A, Belogurov A.

Curr Med Chem. 2017;24(17):1761-1771. doi: 10.2174/0929867324666170605092221.

5) Cloning and characterization of serpin from red king crab *Paralithodes camtschaticus*.

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Fish Shellfish Immunol. 2018 Oct;81:99-107. doi: 10.1016/j.fsi.2018.07.014. Epub 2018 Jul 10.

6) A kinase bioscavenger provides antibiotic resistance by extremely tight substrate binding.

Terekhov SS, Mokrushina YA, Nazarov AS, Zlobin A, Zalevsky A, Bourenkov G, Golovin A, Belogurov A Jr, Osterman IA, Kulikova AA, Mitkevich VA, Lou HJ, Turk BE, Wilmanns M, Smirnov IV, Altman S, Gabibov AG.

Sci Adv. 2020 Jun 24;6(26):eaaz9861. doi: 10.1126/sciadv.aaz9861. eCollection 2020 Jun.

7) Development of a recombinant immunotoxin for the immunotherapy of autoreactive lymphocytes expressing MOG-specific BCRs.

Stepanov A, Bilyy A, Kasheverov I, Rybinets A, Dronina M, Dyachenko I, Murashev A, Knorre V, Sakharov D, Ponomarenko N, Tsetlin V, Tonevitsky A, Deyev S, Belogurov A Jr, Gabibov A.

Biotechnol Lett. 2016 Jul;38(7):1173-80. doi: 10.1007/s10529-016-2092-5. Epub 2016 Apr 21.

8) Diagnostics of autoimmune neurodegeneration using fluorescent probing.

Lomakin Y, Kudriaeva A, Kostin N, Terekhov S, Kaminskaya A, Chernov A, Zakharova M, Ivanova M, Simaniv T, Telegin G, Gabibov A, Belogurov A Jr.

Sci Rep. 2018 Aug 23;8(1):12679. doi: 10.1038/s41598-018-30938-0.

9) Editorial: Nano- and Microparticle-Induced Cell Death, Inflammation and Immune Responses.

Mulay SR, Herrmann M, Bilyy R, Gabibov A, Anders HJ.

Front Immunol. 2019 Apr 17;10:844. doi: 10.3389/fimmu.2019.00844. eCollection 2019.

10) Probing Surface Membrane Receptors Using Engineered Bacteriophage Bioconjugates.

Lomakin YA, Kaminskaya AN, Stepanov AV, Shmidt AA, Gabibov AG, Belogurov AA Jr.

Bioconjug Chem. 2019 May 15;30(5):1500-1506. doi: 10.1021/acs.bioconjchem.9b00218. Epub 2019 May 6.

11) Robotic QM/MM-driven maturation of antibody combining sites.

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12) CD206-Targeted Liposomal Myelin Basic Protein Peptides in Patients with Multiple Sclerosis Resistant to First-Line Disease-Modifying Therapies: A First-in-Human, Proof-of-Concept Dose-Escalation Study.

Belogurov A Jr, Zakharov K, Lomakin Y, Surkov K, Avtushenko S, Kruglyakov P, Smirnov I, Makshakov G, Lockshin C, Gregoriadis G, Genkin D, Gabibov A, Evdoshenko E.

Neurotherapeutics. 2016 Oct;13(4):895-904. doi: 10.1007/s13311-016-0448-0.

13) Microfluidic droplet platform for ultrahigh-throughput single-cell screening of biodiversity.

Terekhov SS, Smirnov IV, Stepanova AV, Bobik TV, Mokrushina YA, Ponomarenko NA, Belogurov AA Jr, Rubtsova MP, Kartseva OV, Gomzikova MO, Moskovtsev AA, Bukatin AS, Dubina MV, Kostryukova ES, Babenko VV, Vakhitova MT, Manolov AI, Malakhova MV, Kornienko MA, Tyakht AV, Vanyushkina AA, Ilina EN, Masson P, Gabibov AG, Altman S.

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14) mRNA expression profile of mouse oligodendrocytes in inflammatory conditions.

Kudriaeva AA, Khaustova NA, Maltseva DV, Kuzina ES, Glagoleva IS, Surina EA, Knorre VD, Belogurov

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Dokl Biochem Biophys. 2016 Jul;469(1):264-8. doi: 10.1134/S1607672916040086. Epub 2016 Sep 7.

15) Loading Rate of Exogenous and Autoantigenic Determinants on Major Histocompatibility Complex Class II Mediates Resistance to Multiple Sclerosis.

Mamedov AE, Zakharova MY, Favorova OO, Kulakova OG, Boyko AN, Knorre VD, Vorobieva NA, Khurs EN, Kiselev IS, Baulina NM, Gabibov AG, Belogurov AA.

Dokl Biochem Biophys. 2019 Mar;485(1):115-118. doi: 10.1134/S1607672919020078. Epub 2019 Jun 14.

16) QM/MM Description of Newly Selected Catalytic Bioscavengers Against Organophosphorus Compounds Revealed Reactivation Stimulus Mediated by Histidine Residue in the Acyl-Binding Loop.

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17) The Transcriptome of Type I Murine Astrocytes under Interferon-Gamma Exposure and Remyelination Stimulus.

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Molecules. 2017 May 15;22(5):808. doi: 10.3390/molecules22050808.

18) Modified siRNA effectively silence inducible immunoproteasome subunits in NSO cells.

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20) Evolution of inhibitor-resistant natural mutant forms of HIV-1 protease probed by pre-steady state kinetic analysis.

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