

Сведения об официальном оппоненте

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Список основных публикаций по теме диссертации за последние 5 лет:

1. Proskurina, A. S., Gvozdeva, T. S., Potter, E. A., Dolgova, E. V., Orishchenko, K. E., Nikolin, V. P., Popova, N. A., Sidorov, S. V., Chernykh, E. R., Ostanin, A. A., Leplina, O. Y., Dvornichenko, V. V., Ponomarenko, D. M., Soldatova, G. S., Varaksin, N. A., Ryabicheva, T. G., Uchakin, P. N., Rogachev, V. A., Shurdov, M. A., Bogachev, S. S. Five-year disease-free survival among stage II-IV breast cancer patients receiving FAC and AC chemotherapy in phase II clinical trials of Panagen // BMC Cancer. - 2016. - V. 16. - N. - P. 651.
2. Potter, E. A., Dolgova, E. V., Proskurina, A. S., Minkevich, A. M., Efremov, Y. R., Taranov, O. S., Omigov, V. V., Nikolin, V. P., Popova, N. A., Bayborodin, S. I., Ostanin, A. A., Chernykh, E. R., Kolchanov, N. A., Shurdov, M. A., Bogachev, S. S. A strategy to eradicate well-developed Krebs-2 ascites in mice // Oncotarget. - 2016. - V. 7. - N. 10. - P. 11580-11594.
3. Dolgova, E. V., Potter, E. A., Proskurina, A. S., Minkevich, A. M., Chernykh, E. R., Ostanin, A. A., Efremov, Y. R., Bayborodin, S. I., Nikolin, V. P., Popova, N. A., Kolchanov, N. A., Bogachev, S. S. Properties of internalization factors contributing to the uptake of extracellular DNA into tumor-initiating stem cells of mouse Krebs-2 cell line // Stem Cell Res Ther. - 2016. - V. 7. - N. 1. - P. 76.
4. Proskurina, A. S., Gvozdeva, T. S., Alyamkina, E. A., Dolgova, E. V., Orishchenko, K. E., Nikolin, V. P., Popova, N. A., Sidorov, S. V., Chernykh, E. R., Ostanin, A. A., Leplina, O. Y., Dvornichenko, V. V., Ponomarenko, D. M., Soldatova, G. S., Varaksin, N. A., Ryabicheva, T. G., Uchakin, P. N., Zagrebelniy, S. N., Rogachev, V. A., Bogachev, S. S., Shurdov, M. A. Results of multicenter double-blind placebo-controlled phase II clinical trial of Panagen preparation to evaluate its leukostimulatory activity and formation of the adaptive immune response in patients with stage II-IV breast cancer // BMC Cancer. - 2015. - V. 15. - N. - P. 122.
5. Alyamkina, E. A., Nikolin, V. P., Popova, N. A., Minkevich, A. M., Kozel, A. V., Dolgova, E. V., Efremov, Y. R., Bayborodin, S. I., Andrushkevich, O. M., Taranov, O. S., Omigov, V. V., Rogachev, V. A., Proskurina, A. S., Vereschagin, E. I., Kiseleva, E. V.,

- Zhukova, M. V., Ostanin, A. A., Chernykh, E. R., Bogachev, S. S., Shurdov, M. A. Combination of cyclophosphamide and double-stranded DNA demonstrates synergistic toxicity against established xenografts // *Cancer Cell Int.* - 2015. - V. 15. - N. - P. 32.
6. Kabilova, T. O., Kovtonyuk, L. V., Zonov, E. V., Ryabchikova, E. I., Popova, N. A., Nikolin, V. P., Kaledin, V. I., Zenkova, M. A., Vlassov, V. V., Chernolovskaya, E. L. Immunotherapy of hepatocellular carcinoma with small double-stranded RNA // *BMC Cancer.* - 2014. - V. 14. - N. - P. 338.
7. Dolgova, E. V., Alyamkina, E. A., Efremov, Y. R., Nikolin, V. P., Popova, N. A., Tyrinova, T. V., Kozel, A. V., Minkevich, A. M., Andrushkevich, O. M., Zavyalov, E. L., Romaschenko, A. V., Bayborodin, S. I., Taranov, O. S., Omigov, V. V., Shevela, E. Y., Stupak, V. V., Mishinov, S. V., Rogachev, V. A., Proskurina, A. S., Mayorov, V. I., Shurdov, M. A., Ostanin, A. A., Chernykh, E. R., Bogachev, S. S. Identification of cancer stem cells and a strategy for their elimination // *Cancer Biol Ther.* - 2014. - V. 15. - N. 10. - P. 1378-1394.
8. Bogdanova, L. A., Morozkova, T. S., Amitina, S. A., Mazhukin, D. G., Nikolin, V. P., Popova, N. A., Kaledin, V. I. Dual effects of indoleamine 2,3-dioxygenase inhibitors on the therapeutic effects of cyclophosphamide and cycloplatum on Ehrlich ascites tumor in mice // *Bull Exp Biol Med.* - 2014. - V. 157. - N. 4. - P. 506-509.
9. Dolgova, E. V., Efremov, Y. R., Orishchenko, K. E., Andrushkevich, O. M., Alyamkina, E. A., Proskurina, A. S., Bayborodin, S. I., Nikolin, V. P., Popova, N. A., Chernykh, E. R., Ostanin, A. A., Taranov, O. S., Omigov, V. V., Minkevich, A. M., Rogachev, V. A., Bogachev, S. S., Shurdov, M. A. Delivery and processing of exogenous double-stranded DNA in mouse CD34⁺ hematopoietic progenitor cells and their cell cycle changes upon combined treatment with cyclophosphamide and double-stranded DNA // *Gene.* - 2013. - V. 528. - N. 2. - P. 74-83.
10. Vasilyeva, E. D., Kaledin, V., Nikolin, V. P., Popova, N. A., Kirilyuk, I. A., Grigor'ev, I. A. Accelerated rejection of the second transplants of immunogenic tumor in mice under inhibition of indoleamine 2,3-dioxygenase activity by ethyl pyruvate // *Exp Oncol.* - 2012. - V. 34. - N. 1. - P. 66-68.
11. Dolgova, E. V., Proskurina, A. S., Nikolin, V. P., Popova, N. A., Alyamkina, E. A., Orishchenko, K. E., Rogachev, V. A., Efremov, Y. R., Dubatolova, T. D., Prokopenko, A. V., Chernykh, E. R., Ostanin, A. A., Taranov, O. S., Omigov, V. V., Zagrebelniy, S. N., Bogachev, S. S., Shurdov, M. A. "Delayed death" phenomenon: a synergistic action of cyclophosphamide and exogenous DNA // *Gene.* - 2012. - V. 495. - N. 2. - P. 134-145.
12. Alyamkina, E. A., Leplina, O. Y., Ostanin, A. A., Chernykh, E. R., Nikolin, V. P.,

Popova, N. A., Proskurina, A. S., Gvozdeva, T. S., Dolgova, E. V., Orishchenko, K. E., Rogachev, V. A., Sidorov, S. V., Varaksin, N. A., Ryabicheva, T. G., Bogachev, S. S., Shurdov, M. A. Effects of human exogenous DNA on production of perforin-containing CD8⁺ cytotoxic lymphocytes in laboratory setting and clinical practice // Cell Immunol. - 2012. - V. 276. - N. 1-2. - P. 59-66.