FEDOSOVA NATALIA

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Nationality: Ukraine
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h-index: 4 (Scopus)

Scientific degrees:	PhD (oncology)
Scientific title	Senior Researcher
Position	senior researcher at laboratory of oncoimmunology and antitumor vaccines design
Institute /department	R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NAS of Ukraine, Kyiv, Ukraine; laboratory of oncoimmunology and antitumor vaccines design
THE DISCIPLINES IN THE TEACHING OF WHICH PARTICIPATED:	
2019-2023	1. The role of biological properties of tumor cells in interaction with the cells of the system of immunity, PhD at R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NAS of Ukraine 2. Immunology, bachelor's degreer (2-st year course), the Practical Training. Department of Microbiology and Immunology at the NSC "Institute of Biology and Medicine" of Kyiv National Taras Shevchenko University 3. Design of cancer immunotherapy drugs. Department of Microbiology and Immunology at the NSC "Institute of Biology and Medicine" of Kyiv National Taras Shevchenko University 4. Cellular immunity. Department of Microbiology and Immunology at the NSC "Institute of Biology and Medicine" of Kyiv National Taras Shevchenko University
EXPERIENCE OF SCIENTIFIC AND SCIENTIFIC-PEDAGOGICAL WORK	
Scientific work	From 1996 till now: R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NAS of Ukraine
Teaching activities:	From 2019 till now: R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NAS of Ukraine; NSC "Institute of Biology and Medicine" of Kyiv National Taras Shevchenko University
EDUCATION:	
1998-2001	PhD at R.E. Kavetsky Institute of Experimental

	Pathology, Oncology and Radiobiology, NAS of Ukraine
1991-1996	Kyiv Taras Shevchenko University, Kyiv, Ukraine. Received a complete higher education in the specialty "Microbiology" and the qualification "biology, immunology. Teacher of biology"
PERSONAL SKILLS	
Native language	Ukrainian
Foreign language 1	English
Foreign language 2	-
Communication competence	Communication skills received during the work at R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NAS of Ukraine and the Department of Microbiology and Immunology at the NSC "Institute of Biology and Medicine" of Kyiv National Taras Shevchenko University
Computer skills Experienced user. I have MS Office (Excel, Power Point, Word) skills, I work with e-mail (Outlook	Computer skills Experienced user. I have MS Office (Excel, Power Point, Word) skills, I work with e-mail (Outlook
Areas of professional interests	Immunology, oncology
Current research interests and activities	experimental study of mechanisms of action and therapeutic efficacy of anticancer immunotherapy; selection of immunological indicators for monitoring the efficacy of anticancer immune and/or biotherapeutic agents. Experimental studies of functional plasticity of macrophages under the conditions of use of chemo- and biotherapy of cancer
ADDITIONAL INFORMATION	
Publications for 2018-2023	1. Chumak A, Fedosova N, Cheremshenko N, Symchych T.V., Karaman O.M., Voyeykova I.M. Effect of lectin B. subtilis IMV B-7724 on the activity of the effectors of cellular component of anticancer immunity. Experimental Oncology. – 2023. – Vol 45, no 3. – P. 328-336. doi:15407/exponcology.2023.03.238 2. Voyeykova I.M., Cheremshenko N, Karaman O.M., Chumak A, Symchych T.V., Fedosova N, The effectiveness of combined use of immuno- and chemotherapy with different metastatic potential tumors. Oncology. – 2023. – V. 25, № 4. – P. 262–268. https://doi.org/10.15407/oncology.2023.04.262 3. Fedosova N.I., Symchych T.V., Chumak A.V., Shcherbina V.M., Cheremshenko N.L., Karaman O.M. The effect of *B. subtilis* IMV B-7724 lectin on functional activity of the main

	effectors of antitumor immunity of intact mice Biotechnologia Acta. –2022. – Vol. 15, No. 4. –P. 11-14. https://doi.org/10.15407/biotech15.04.011 4. Kisten O.G., Hetman K.I., Koval E.V., Hretskyi I.O., Zyryanova L.F., Tyshchenko L.M., Fedosova N.I., Cheremshenko N.L., Chumak A.V. Features of the Synthesis of Extracellular Cytotoxic Lectin *Bacillus subtilis* IMV B-7724, Depending on the Cultivation Conditions in the Laboratory Fermenter. Mikrobiol. Z. – 2022. Vol. 84, no 3. – P. 17-28. doi: https://doi.org/10.15407/microbiolj84.03.017 5. Fedosova N.I., Symchych T.V., Cheremshenko N.L., Chumak A.V., Koval E.V., Karaman O.M., Voyeykova I.M. Antimetastatic effect of *B. subtilis* IMV B-7724 lectin observed in a Lewis lung carcinoma model Experimental Oncology. – 2022. – Vol. 44, no 2. – P. 155-158. doi:10.32471/exp-oncology.2312-8852.vol-44-no-2.17914 6. A.V. Chumak, N.I. Fedosova, N.L. Cheremshenko, T.V. Symchych, I.M. Voyeykova, Karaman O.M. Preclinical examination of the effect of lectin B. subtilis IMV B-7724 on the dynamics of functional activity of macrophages in the translation of a sensitive or chemoresistant model tumor. Oncology. – 2021. – Т. 23, № 1-2. – С. 40-46. doi: 10.32471/oncology.2663-7928.t-23-1-2021-g.9409 7. A.V. Chumak, N.I. Fedosova, N.L. Cheremshenko, T.V. Symchych, I.M. Voyeykova, V.F. Chekhun. Macrophage polarization in dynamics of Lewis lung carcinoma growth and metastasis. Experimental Oncology 2021; 43, 15–20. doi: 10.32471/exp-oncology.2312-8852.vol-43-no-1.15829 8. N.I. Fedosova, N.L. Cheremshenko, K.I. Hetman, T.V. Symchych, A.V. Chumak, V.O. Shliahovenko, I.M. Voyeykova, H.V. Didenko. Physicochemical and cytotoxicity properties of *Bacillus subtilis* IMB B-7724 extracellular lectin. Mikrobiol. Z. 2021; 83(1):39-48. https://doi.org/10.15407/microbiolj83.01.039 9. A. Chumak, V. Shcherbina, N. Fedosova, V. Chekhun. Polarization of macrophages of mice under the influence of lectin from Bacillus Subtilis IMB B-7724. EUREKA: Life Sciences 2021; (3): 3–10. doi:10.21303/2504-

	5695.2021.001878. 10. Symchych T.V., Fedosova N.I., Chumak A.V., Cheremshenko N.L., Karaman O.M., Burlaka A.P., Voyeykova I.M. Functions of tumor-associated macrophages and macrophages residing in remote anatomical niches in Ehrlich carcinoma bearing mice. Exp Oncol 2020; **42** (3): 197-203. doi: 10.32471/exp-oncology.2312-8852.vol-42-no-3.14928 11. Fedosova N.I., Cheremshenko N.L., Getman K.I., Karaman O.M., Symchych T.V., Ivanchenko A.V., Danyliuk O.I., Voeykova I.M., Didenko G.V. Bioactivity of the *Bacillus subtilis* IMV B-7724 extracellular lectin. Mikrobiol. Z. – 2019. – Vol. 81, no 4. – P. 107-117. https://doi.org/10.15407/microbiolj81.04.107
Patents	1 Cheremshenko NL, Fedosova NI, Hetman KI, Karaman OM, Simchich TV, Ivanchenko AV, Voyikova IM, Chekhun VF Cytotoxic lectin with antitumor activity. Pat. №141944. 12.05.2020. Bul. № 9/2020. 2 Chekhun VF, Didenko GV, Cheremshenko NL, Kruts OA, V. Basas, IM Voyeikova, NI Fedosova, Karaman OM Bacteria strain Bacillus subtilis IMB B-7724 - producer of cytotoxic substances with antitumor action. Patent for invention №120572UA. 26.12.2019. Bul. №24/2019 3 Cheremshenko NL, Fedosova NI, Hetman KI, Karaman OM, Simchich TV, Ivanchenko AV, Voyikova IM, Chekhun VF Cytotoxic lectin with antitumor activity. Patent for invention №126335UA. 21.09.2022. Bul. № 38/2022.