Curriculum Vitae

PERSONAL INFORMATION



Borikun Tetiana Viktorivna

St. Vasylkivska, 45 , Kyiv , 03022, Ukraine

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Author ID

Scopus: 56891689400

ORCID: 0000-0001-7215-8315

Google Scholar profile: auE9L3kAAAAJ

Gender F

Date of birth 10/08/1991 Citizenship Ukraine



Scientific degree (degree, specialty)	Candidate of Biological Sciences, "Oncology"
Position	Researcher of the tumor process monitoring and therapy design department
	RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology National Academy of Sciences of Ukraine

Educational disciplines in the teaching of which he participated:

In the current year	 "Fundamentals of cytomorphology and molecular biological markers of tumor growth" - EL Doctor of Philosophy in specialty 091 "Biology", branch of knowledge 09 "Biology" "Modern paradigms of personalized therapy in oncology" - EL Doctor of Philosophy in specialty 222 "Medicine", branch of knowledge 22 "Health care" Cytogenetic and molecular diagnostic methods, EL "Bachelor", specialty 091 "laboratory diagnostics", 4th year, practical lectures, seminars Analytical genetics, EL "Bachelor", specialty 091 "biology", 4th year, practical lectures, seminars
In previous years	 Laboratory practicum in genetics, EL "Bachelor", specialty 091 "Biology", 3rd year, practical, seminars Population genetics, Genetics of reproduction, EL "Master", specialty 091 "Biology", 1st year, lectures, seminars "Modern paradigms of personalized therapy in oncology" - Doctor of Philosophy in specialty 222 "Medicine", branch of knowledge 22 "Health care" "Fundamentals of cytomorphology and molecular biological markers of tumor growth" - EL Doctor of Philosophy in specialty 091 "Biology", branch of knowledge 09 "Biology" "Fundamentals of theoretical oncology", "Translational oncology" - EL Doctor of Philosophy in specialty 222 "Medicine", field of knowledge 22 "Health care" and 091 "Biology"

EXPERIENCE OF SCIENTIFIC AND SCIENTIFIC AND PEDAGOGICAL WORK

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Period	Stage
From 2020 until now	Position: Researcher of the tumor process monitoring and therapy design department
	RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology National
	Academy of Sciences of Ukraine, Ukraine, 03022, M. Kyiv, str. Vasylkivska 45,
	https://iepor.org.ua/
	Teaching and research activity: scientific management of students' course and diploma projects,
	research activity
	Field of activity or sector Education and science
From 2017 to 2020	Position: Junior employee of the tumor process monitoring and therapy design department
	RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology National
	Academy of Sciences of Ukraine, Ukraine, 03022, M. Kyiv, str. Vasylkivska 45,
	https://iepor.org.ua/
	Teaching and scientific activity: scientific activity
	Field of activity or sector: Education and science
From 2014 to 2017	Position: Leading engineer of the tumor process monitoring and therapy design department
	RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology National
	Academy of Sciences of Ukraine, Ukraine, 03022, M. Kyiv, str. Vasylkivska 45,
	https://iepor.org.ua/

	Teaching and scientific activity: scientific activity
	Field of activity or sector Education and science
From 2011 to 2014	Position: Engineer of the tumor process monitoring and therapy design department,
	RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology National
	Academy of Sciences of Ukraine, Ukraine, 03022, м. Kyiv, str. Vasylkivska 45,
	https://iepor.org.ua/
	Teaching and scientific activity: scientific activity
	Field of activity or sector: Education and science

TRAINING AND INTERNSHIP

Period	Stage
	RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology National Academy of Sciences of Ukraine, Ukraine, 03022, Kyiv, st. Vasylkivska 45, https://iepor.org.ua/
2020	Received qualification - candidate of biological sciences, specialty: oncology (14.01.07), dissertation "Molecular and biological signs associated with the degree of malignancy of prostate
	cancer", diploma DK No. 056778
From 2014 to 2017 _	Postgraduate course of the Institute of Experimental Pathology, Oncology and Radiobiology named after RE. Kavetsky National Academy of Sciences of Ukraine National Academy of Sciences of
F 2012 to 2014	Ukraine, Ukraine, 03022, Kyiv, st. Vasylkivska 45, https://iepor.org.ua/
From 2012 to 2014 _	NSC "Institute of Biology" of Taras Shevchenko Kyiv National University; Kyiv, Ukraine
	Obtained qualification - Master of Genetics; KV Nº47473714
From 2009 to 2013 _	NSC "Institute of Biology" of Taras Shevchenko Kyiv National University; Kyiv, Ukraine
	Obtained qualification - Bachelor of Biology ; KV № 4317057
2022	The 56th Annual Scientific Meeting of the European Society for Clinical Investigation (ESCI), Bari, Italy
2020 _	24th EDUFI WINTER SCHOOL "Recognizing breath-taking links and structures around us" Twarminne, Finland
2019	6th Black Sea International Immunology School (BSIIS2019) "The Game of Immunity: the players and the observers" Teteven, Bulgaria
2018	8th EACR-OECI Joint Training Course: Molecular Pathology Approach to Cancer, Amsterdam,
	Netherlands
2017 _	VACTRAIN Training course "Dendrimers & small molecules applications" Department of
	General Biophysics, University of Lodz, Lodz, Poland
2017 _	9th EFIS-EJI South East European Immunology School (SEEIS2017), Lviv, Ukraine
2015 _	The Good Clinical Practice (GCP) course (NIH online training)

PERSONAL SKILLS

PERSONAL SKILLS	
Name	Level
Language knowledge	Ukrainian: In ilno
	English: Level B 1
Communication	She acquired communication skills during scientific and organizational work as a member of
competence	the Council of Young Scientists of the Institute of Experimental Pathology, Oncology and
	Radiobiology named after RE. Kavetsky National Academy of Sciences of Ukraine and the
	Council of Young Scientists of the Department of Biochemistry, Physiology and Molecular Biology of the National Academy of Sciences of Ukraine.
Organizational/	Management of the stages of the implementation of scientific projects within the framework
managerial	of grants: predictive non-tumor markers of breast cancer (0115U001378), The role of the
competence	epithelial-mesenchymal transition in the mechanisms of the formation of drug resistance of
competence	human prostate cancer cells (0117U006124), Development and implementation of a
	prognostic panel of breast cancer biomarkers for personalized monitoring of tumor
	progression (0116U006053), Development and implementation of a panel of predictive
	miRNAs for personalized design of neoadjuvant therapy for breast cancer patients
	(0119U101242).
	Iupervision of the scientific works of students interning at IEPOR named after RE. Kavetskyi, participation in the organization of scientific and practical conferences and events for the
	popularization of science.
Computer skills	Experienced user. Fluent in MS Office (Excel, Power Point, Word), use of Graph Pad Prism,
Compater skins	Statistica, Adobe Photoshop and Adobe Illustrator programs. I have basic programming skills in
	Python. Work with the databases The Human Protein Atlas, Expression Atlas, HuRI (The Human
	Reference Protein Interactome Mapping Project), miRNet v. 2.0, DIANA-miRPath v3.0,
	miRTargetLink Human, NCBI
	milk raigettink riaman, Nebi

Proffesional skills	Methodological arsenal: maintaining cell cultures, working with laboratory animals, methods of molecular biology (nucleic acid extraction, RT-PCR, Q-PCR, methyl-specific PCR, nucleic acid
	electrophoresis), DNA-comet method, transfection of eukaryotic cells, immunocyto- and
	histochemical methods, immunofluorescence methods.
Areas of professional	Study of expression levels of circulating microRNAs in the blood of cancer patients
interests	- Study of miRNA expression in non-neoplastic diseases (diabetes, atherosclerosis, etc.) ex vivo
	- Study of the effect of various materials on inflammatory processes in vitro and in vivo
	- Epigenetic regulation of metabolism in tumor cells.
	- Molecular profiling of breast and prostate cancer cells in vitro and ex vivo - search for
	epigenetic features of different cancer subtypes (DNA methylation, miRNA, IncRNA profile,
	protein expression).
	- Prediction of chemosensitivity of tumor cells in vitro and ex vivo based on microRNA
	expression.
	- Search for low-toxic substances capable of enhancing the effect of anticancer drugs in vitro
	and in vivo (toxicity studies)

Publications Co-author of 118 scientific works, including 5 chapters in collective monographs, 49 articles, 6 utility model patents, 5 information sheets and 51 theses Selected publications: 1. Kutsevol N, Kuziv Y, Bezugla T, Virych P, Marynin A, Borikun T, Lukianova N, Virych P, Chekhun, V. (2021). Application of new multicomponent nanosystems for overcoming doxorubici resistance in breast cancer therapy. Applied Nanoscience, 1-11. Q2 2. Lukianova N.Yu., Borikun TV., Chekhun VF Tumor microenvironment-derived miRNAs a prognostic markers of breast cancer. (2019). Experimental oncology, 41 (3), 242-7. 3. Chekhun VF, Todor IN, Lukianova NY, Borikun TV, Horbyk DM, Lozovskaya YV, Burlak AP Influence of ferromagnetic nanocomposite (Ferroplat) on human breast cancer cells o different malignancy degrees: pro/antioxidant balance and energy metabolism. (2018) Experimental oncology, 40 (4), 268-74. Q3 4. Chekhun VF, Storchai DM, Todor IN, Lukianova NY, Borikun TV Antitumor and genotoxi effects of lactoferrin in Walker-256 tumor-bearing rats. (2018). Experimental oncology, 40 (3), 200-4. Q3 5. Zadvornyi TV, Borikun TV, Lukianova NY, Chekhun VF Effects of exogenous lactoferrin on phenotypic profile and invasiveness of human prostate cancer cells (DU145 and LNCaP) i vitro. (2018). Experimental oncology, 40 (3), 184-9. Q3 6. Kutsevol N, Harahuts Y, Shton I, Borikun T, Storchai D, Lukianova N, Chekhun V (2018). In vitro study of toxicity of hybrid gold-polymer composites. Molecular Crystals and Liqui Crystals 671 (1), 1-8. Q3 7. Chekhun VF, Lukianova NY, Chekhun SV, Bezdieniezhnykh NO, Borikun TV, Zadvorni TV, Polishchuk LZ, Klyusov O,M. Association of CD44+CD24-flow with markers of aggressivenes and plasticity of cell lines and tumors of patients with breast cancer. (2017). Experimental oncology, 39 (3), 203-11. Q3 8. Zalutskii TV, Lukianova NY, Chekhun VF Influence of exogenous lactoferrin on tho oxidant/antioxidant balance and molecular profile of hormone receptor-positive and -negativ human breast cancer cells in	ADDITIONAL INFO	RMATION
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TV, Polishchuk LZ, Klyusov O.M. Association of CD44+CD24-/low with markers of aggressiveness and plasticity of cell lines and tumors of patients with breast cancer. (2017). Experimental oncology, 39 (3), 203-11. Q3 8. Zalutskii IV, Lukianova NY, Storchai DM, Burlaka AP, Shvets YV, Borikun TV, Todor IM Lukashevich VS, Rudnichenko YA, Chekhun VF Influence of exogenous lactoferrin on the oxidant/antioxidant balance and molecular profile of hormone receptor-positive and -negativ human breast cancer cells in vitro. (2017). Experimental oncology, 39 (2), 106-11. Q3 9. Chekhun VF, Lukianova N.Yu., Borikun TV, Zadvorny TV, Mokhir A. Artemisini modulating effect on human breast cancer cell lines with different sensitivity to cytostatics (2017). Experimental oncology, 39 (1), 25-9. Q3 10. Chekhun VF, Lozovska YV, Naleskina LA, Burlaka AP, Todor IN, Demash DV, Yalovenk TM, Zadvornyi TV, Borikun TV, Pavlova AO, Storchay DM, Lukianova N.Yu. Modifying effects of 5-azacytidine on metal-containing proteins profile in Guerin carcinoma with different sensitivity to cytostatics. (2016). Experimental oncology, 38 (4), 283-7. Q3 11. Chekhun VF, Zalutskii IV, Naleskina LA, LukianovaN.Yu., Borikun T., Yalovenko TM SobchenkoS.O., Semak IV, Lukashevich VS Modifying effects of lactoferrin in vitro on molecula phenotype of human breast cancer cells. (2016). Experimental oncology, 37 (3), 181-6. Q3 Projects Projects The role of the epithelial-mesenchymal transition in the mechanisms of the formation of drug resistance of human prostate cancer cells."		(2018). In vitro study of toxicity of hybrid gold-polymer composites . Molecular Crystals and Liquid Crystals 671(1), 1-8 . Q3
8. Zalutskii IV, Lukianova NY, Storchai DM, Burlaka AP, Shvets YV, Borikun TV , Todor IM Lukashevich VS, Rudnichenko YA, Chekhun VF Influence of exogenous lactoferrin on the oxidant/antioxidant balance and molecular profile of hormone receptor-positive and -negative human breast cancer cells in vitro. (2017). <i>Experimental oncology</i> , 39 (2), 106-11. Q3 9. Chekhun VF, Lukianova N.Yu., Borikun TV , Zadvorny TV, Mokhir A. Artemisini modulating effect on human breast cancer cell lines with different sensitivity to cytostatics (2017). <i>Experimental oncology</i> , 39 (1), 25-9. Q3 10. Chekhun VF, Lozovska YV, Naleskina LA, Burlaka AP, Todor IN, Demash DV, Yalovenk TM, Zadvornyi TV, Borikun TV, Pavlova AO, Storchay DM, Lukianova N.Yu. Modifying effects of 5-azacytidine on metal-containing proteins profile in Guerin carcinoma with different sensitivity to cytostatics. (2016). <i>Experimental oncology</i> , 38 (4), 283-7. Q3 11. Chekhun VF, Zalutskii IV, Naleskina LA, LukianovaN.Yu., Borikun T., Yalovenko TM SobchenkoS.O., Semak IV, Lukashevich VS Modifying effects of lactoferrin in vitro on molecula phenotype of human breast cancer cells. (2016). <i>Experimental oncology</i> , 37 (3), 181-6. Q3 Projects Projects The role of the epithelial-mesenchymal transition in the mechanisms of the formation of drug resistance of human prostate cancer cells."		TV, Polishchuk LZ, Klyusov O.M. Association of CD44+CD24-/low with markers of aggressiveness and plasticity of cell lines and tumors of patients with breast cancer. (2017). Experimental
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Projects Status in the project and method/form of participation: responsible executor Name of the project: "The role of the epithelial-mesenchymal transition in the mechanisms of the formation of drug resistance of human prostate cancer cells"		SobchenkoS.O., Semak IV, Lukashevich VS Modifying effects of lactoferrin in vitro on molecular
i rojecticven zur oktainan		Status in the project and method/form of participation: responsible executor Name of the project: "The role of the epithelial-mesenchymal transition in the mechanisms of

Organizer: NAS of Ukraine

Implementing institution: IEPOR named after RE. Kavetsky National Academy of Sciences of

Ukraine, Kyiv, Ukraine

Implementation period: 2017-2018

Number of participants: 4 Funding source: NAS of Ukraine

Status in the project and method/form of participation: executor

Project name; Experimental assessment of the effectiveness of the application and biocompatibility testing algorithm of domestic implant materials based on calcium phosphates for restoring the function of the musculoskeletal system in the case of a malignant process (state registration number 0117U001729)

Name of the competition: Targeted program of scientific research of the National Academy of Sciences of Ukraine "Materials for medicine and medical equipment and technologies for their production and use" for 2017-2021.

Implementation period: 2017-2021

Number of participants: 8

Status in the project and method/form of participation: responsible executor

Project name: The role of markers of bone tissue remodeling in the formation of the degree of malignancy of the most common hormone-dependent neoplasms (state registration number 0118U005468)

Name of the competition: Fundamental scientific research on the most important problems of the development of scientific-technical, socio-economic, socio-political, human potential to ensure Ukraine's competitiveness in the world and sustainable development of society and the state

Implementation period: 2019-2023

Number of participants: 7

Status: responsible executor

Project name: "Development and implementation of a panel of predictive microRNAs for the personalized design of neoadjuvant therapy for breast cancer patients" (state registration number 0119U101242)

Name of the competition: Scientific and technical projects of institutions of the NAS of

Ukraine in 2019 Implementation period: 2019

Number of participants: 5

Conferences

- 1. Tumor microenvironment derived miRNAs as prognostic markers of malignant and benign breast disease. November 21-22, 2019 II International Conference "Tumor and the Organism: New Aspects of an Old Problem" Kyiv. Lukianova N.Yu., **Borikun TV**, Chekhun VF (Publication of abstracts)
- 2. Expression of bone remodeling markers in human breast and prostate cancer cell lines. XIV congress of oncologists and radiologists of Ukraine: materials of the congress, Kyiv. September 30 October 2, 2021 K., 2021. P. 364. **Borikun T.V.**, Zadvorny T.V., Lykhova O.O., Lukyanova N.Yu., Chehun V.F. (Oral report)
- 3. Diagnostic and prognostic value of tumor-associated miRNA-21, 125b and -221 in patients with the most common hormone-dependent malignant neoplasms. October 12-13, 2021 Scientific and practical conference of young scientists "Modern oncology: from basic research to new therapeutic approaches. **Borikun T.V.,** Zadvorny T.V., Lukyanova N.Yu., Chehun V.F. (Oral report)
- 4. P reductive value of mirna-99b, -210 and -377 expression for targeting therapy in patients with RCC 4 1st Congress of the Société Internationale d'Urologie (SIU)&10th Emirates International Urological Conference of the Emirates Urological Society (EUS) 10-14 November 2021, Dubai, UAE. **Borikun T.**, Vitruk I., Semko S., Voylenko O., Stakhovsky E., Yalovenko T., Rossylna O. (Poster report)
- 5. Mast cells as a prognostic marker in prostate cancer EACR-Worldwide Cancer Research Meeting "The Structural Microenvironment: Breaking down the walls of cancer", Worldwide: 22 23 February 2022. Zadvornyi T, Borikun T, Lukianova N (Publication of **theses**)
- 6. The immunoregulatory genes expression in prostate cancer 7th Annual international remote conference Science and Society Conference 2022, Worldwide: 26-27 February & 5 March 2022. Zadvornyi T, Borikun **T**, Lukianova N (Oral presentation)
- 7. Prognostic value of miR-29b and miR-142 as markers of lymphocyte differentiation in marrow of patients with acute leukemia. 7th Annual international remote conference Science and Society Conference 2022, Worldwide: 26-27 February & 5 March 2022. **Borikun TV**, Lukianova

	hours I am a
	NY (Oral presentation)
	8. Dysregulation of extracellular matrix genes expression as a prognostic marker of prostate
	cancer course. Riga Stradiņš University International Student Conference in "Health and Social
	Sciences" 2022: March 24-25, 2022 Riga, Latvia. Borikun T , Livandovska S, Selezinka A (Oral
	report)
	9. Predictive significance of tumor-associated miRNA-21 and-221 expression in patients with
	prostate cancer. Meeting Abstract 2022 ASCO Annual Meeting I, Journal of Clinical Oncology 40,
	no. 16_suppl (June 01, 2022) e17015-e170151. Tryfonyuk L, Borikun T , Zadvornyi T, Rossylna
	O, Pavlukovich N (Publication of theses)
	10. The features of the tumor microenvironment in patients with prostate cancer with
	different risk progression. The 56th Annual Scientific Meeting of the European Society for Clinical
	Investigation (ESCI), Bari, Italy, 08/06/2022-10/06/2022, Eur J Clin Invest. 2022; 52: 140: 6ASM-
	00051 Zadvornyi T, Lukianova N, Borikun T , Chekjun V (Oral report)
	11. Association of MMP-8 Gene Expression and its regulatory Molecules with Clinical
	Pathological Features of Prostate Cancer Chance for Science Conference 2022, Sep 8-9, 2022.
	Borikun T , Livandovska S, Lukianova N (Oral presentation)
Awards	2022-2023 Scholar of the National Academy of Sciences of Ukraine Scholarship for young
	scientists
	2021 Laureate of the Prize of the President of Ukraine for young scientists
	2020-2021 Scholar of the National Academy of Sciences of Ukraine Scholarship for young
	scientists
	2020 Travel grant for participation at the 24th EDUFI WINTER SCHOOL "Recognizing breath-
	taking links and structures around us"
	2019 Travel grant for participation at the 6th Black Sea International Immunology School
	(BSIIS2019) "The Game of Immunity: the players and the observers" (Teteven , Bulgaria)
	2018 EACR-Worldwide Cancer Research Meeting Bursary for participation at the 8th EACR-OECI
	Joint Training Course: Molecular Pathology Approach to Cancer (Amsterdam , the Netherlands)
	2018 Scholar Scholarships for young scientists from EFIS for participation at the 13th EFIS-EJI
	Tatra Immunology Conference (Strabske Pleso , Slovakia)
	2018 Gratitude of the Holosiiv District Administration of Kyiv for achievements in the
	development of sciences
	2017 EFIS-EJI travel grant for participation at the 9th EFIS/EJI South East European Immunology
	School (Lviv , Ukraine)
	2017 Travel grant for participation in The III Swedish-Ukrainian meeting on cancer diseases (
	Stockholm , Sweden)
	2017-2018 Scholar of the Scholarship of the President of Ukraine for young scientists of the
	National Academy of Sciences of Ukraine
Membership in	Since 2017 – Member of the Ukrainian Biochemical Society, indirectly Member of the Federation of
scientific societies	the European Biochemical Societies (FEBS), Europe
	Since 2017 - a member of the UKRAINIAN ASSOCIATION OF SPECIALISTS IN IMMUNOLOGY,
	ALLERGOLOGY AND IMMUNOREHABILITATION (UTIAI), indirectly Member of the European
	Federation of Immunological Societies (EFIS)
Citation	h-index (Scopus) 8, 169 citations