

Curriculum Vitae

PERSONAL RECORDS



Taras Zadvornyi

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Author ID

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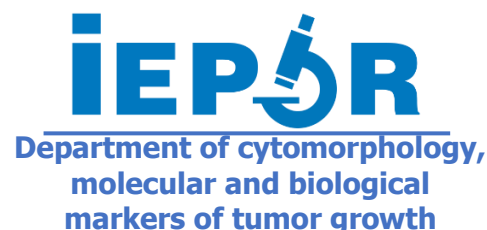
ORCID: 0000-0003-3033-3976

Google Scholar profile: JP3MRrIAAAAJ&hl

Sex M

Date of birth 22/06/1992

Nationality Ukraine



Academic degree (degree, specialty)	PhD, «Oncology»
Position	Senior Researcher, Department of cytomorphology, molecular and biological markers of tumor growth
Institute	R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, National Academy of Sciences of Ukraine (IEPOR NAS of Ukraine); Kyiv, Ukraine

Academic disciplines in which he has taught:

In the current year	Disciplines at the IEPOR NAS of Ukraine: "Experimental oncology: from theory to practice", "Fundamentals of cytomorphology and molecular biological markers of tumor growth" - Doctor of Philosophy in specialty 091- Biology
In previous periods	Disciplines at the IEPOR NAS of Ukraine: "Modern paradigms of personalized therapy in oncology", "Fundamentals of theoretical oncology" - Doctor of Philosophy in specialty 222 "Medicine", field of knowledge 22 "Health care" Disciplines at the Taras Shevchenko National University of Kyiv, ESC Institute of Biology and Medicine "Design of cancer immunotherapy drugs", "Antitumor immunity" - Master's degree in Biology (full-time)

EXPERIENCE IN RESEARCH AND SCIENTIFIC AND PEDAGOGICAL WORK

Period	Phase
Since Mart 2025	Position: Senior Researcher, Department of cytomorphology, molecular and biological markers of tumor growth
	IEPOR NAS of Ukraine, 45, Vasylkivska str, Kyiv-03022, Ukraine, https://www.iepor.site/
	Teaching and research activities: scientific supervision of students' course and diploma projects, research activities
	Field of activity or sector: Education and science
Since 2023	Position: Visiting Lecturer
	Department of Microbiology and Immunology in Educational and Scientific Center "Institute of Biology and Medicine", Taras Shevchenko National University of Kyiv (on an hourly basis); 03127, Kyiv, Hlushkova Avenue, 2
	Teaching activities: scientific supervision of students' course and diploma projects, research activities
	Field of activity or sector: Education and science
January-February 2025	Position: Researcher, Department of cytomorphology, molecular and biological markers of tumor growth
	IEPOR NAS of Ukraine, 45, Vasylkivska str, Kyiv-03022, Ukraine, https://www.iepor.site/
	Teaching and research activities: scientific supervision of students' course and diploma projects, research activities
	Position: Department of cytomorphology, molecular and biological markers of tumor growth
2021– 2024	Position: Researcher, Laboratory of Mechanisms of Drug Resistance
	IEPOR NAS of Ukraine, 45, Vasylkivska str, Kyiv-03022, Ukraine, https://www.iepor.site/

	Teaching and research activities: scientific supervision of students' course and diploma projects, research activities
	Field of activity or sector: Education and science
2018 – 2021	Position: Junior Researcher; Laboratory of Mechanisms of Drug Resistance IEPOR NAS of Ukraine, 45, Vasylkivska str, Kyiv-03022, Ukraine, https://www.iepor.site/
	Teaching and research activities: research activities
	Field of activity or sector: Education and science
2015 - 2018	Position: Lead Engineer; Laboratory of Drug Resistance Mechanisms IEPOR NAS of Ukraine, 45, Vasylkivska str, Kyiv-03022, Ukraine, https://www.iepor.site/
	Teaching and research activities: research activities
	Field of activity or sector: Education and science
2014 – 2015	Position: Engineer; Department of Tumor Process Monitoring and Therapy Design IEPOR NAS of Ukraine, 45, Vasylkivska str, Kyiv-03022, Ukraine, https://www.iepor.site/
	Teaching and research activities: research activities
	Field of activity or sector: Education and science

EDUCATION

Period	Phase
2021	IEPOR NAS of Ukraine, 45, Vasylkivska str, Kyiv-03022, Ukraine, https://www.iepor.site/ PhD in Oncology (14.01.07), Topic: Molecular biological features associated with the malignancy degree of prostate cancer, Diploma number ДКН№059678
2015 - 2018	PhD-student; IEPOR NAS of Ukraine, 45, Vasylkivska str, Kyiv-03022, Ukraine, https://www.iepor.site/
2013 – 2015	Taras Shevchenko National University of Kyiv (Educational and Scientific Centre "Institute of Biology"); Kyiv, Ukraine MSc in Immunology; Diploma number M15N№030646
2009 - 2013	Taras Shevchenko National University of Kyiv (Educational and Scientific Centre "Institute of Biology"); Kyiv, Ukraine BSc in Biology; Diploma number KB №45752403

TRAINING AND COURSES

Period	Phase
2025	Course "Quality Management in Higher Medical Education" aimed at improving knowledge in the methodology of teaching "Oncology," Educational and Scientific Institute of Postgraduate Education, Donetsk National Medical University, Lyman, Ukraine.
2025	The SIICA Virtual School of Immunology 2025
2024	1st Immuno-Oncology SPO-SPI School online
2024	Digital Pathology Certificate Course (The National Society for Histotechnology of USA and the Digital Pathology Association of USA online Course)
2021	Cancer Core Europe (CCE) Virtual Summer School in Translational Cancer Research 2021
2017	VACTRAIN Training course "Dendrimers & small molecules applications" Department of General Biophysics, University of Lodz, Lodz, Poland
2015	7th EFIS/EJI South East European Immunology School, Becici, Montenegro
2015	The Good Clinical Practice (GCP) course (NIH online training)

PERSONAL SKILLS

Title	Level
Languages skills	Ukrainian – Native English – B1
Communication competence	Communication skills were gained during scientific and organizational work as a member of the Council of Young Scientists of the R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology of the 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, as well as during activities as a member of organizing committees for conferences
Organizational/managerial competence	Management of a scientific project carried out within the framework of a grant for young scientists of the National Academy of Sciences of Ukraine "Investigation of the reactive microenvironment as a factor in the progression of prostate cancer", management of

	scientific works of students who were practicing at the Kavetsky IEPOR, participation in the organization of scientific and practical conferences and events to popularize science. Member of the organizing committee of conferences. Secretary of the journal "Experimental Oncology", Member of the editorial board of the scientific and practical journal "Oncology". Since 2024 - Chairman of the Council of Young Scientists of the R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology of the National Academy of Sciences of Ukraine.
Computer skills	Experienced user. I am proficient in MS Office (Excel, Power Point, Word). Confident work with various browsers (Opera, Firefox, Chrome, Internet Explorer). Skills in working with the Windows operating system. Working in ImageJ, Graph Pad Prism, QuPath v.0.2.3, ImageJ, CurveAlign v4.0 Beta, Adobe Photoshop. Work with scientific bibliographic databases (Google Scholar, Scopus). Working with the databases The Human Protein Atlas, Expression Atlas, Genotype-Tissue Expression (GTEx) Project from the Broad Institute of MIT and Harvard, STRING v.11.5 and HuRI (The Human Reference Protein Interactome Mapping Project), miRNet v. 2.0, DIANA-miRPath v3.0, miRTargetLink Human
Professional skills	Molecular biology techniques: Immunohistochemistry, immunocytochemistry, histochemistry, morphometric methods, biochemical and hematological blood analysis, ELISA, thin-layer chromatography, circular dichroism, gel electrophoresis
Areas of professional interest	Tumor microenvironment Cytomorphology hormone-dependent tumors Cancer epigenetics Cancer stem cells Iron-binding proteins

ADDITIONAL INFORMATION

Title	(titles of publications, presentations, projects, conferences, seminars, awards and prizes, membership in academies, professional and scientific associations, etc.)
Publications	<p>SELECTED PUBLICATIONS:</p> <p>Chekhun V, Lukianova Y, Mushii O, Zadvornyi T, Pavlova A, Burda T, Bazas V, Shepelenko S, Lukianova N. Breast cancer microenvironment composition associated with high PD-L1 expression. <i>BMC Cancer</i> 2026; 26: 217. doi: 10.1186/s12885-026-15542-0</p> <p>Zadvornyi T, Mushii O, Burda T, Pavlova A, Shevchuk A, Yushchenko L, Vitruk Iu, Lukianova N. Features of the spatial organization and qualitative composition of the collagen matrix in prostate cancer. <i>Journal of Molecular Histology</i> 2026; 57: 55. doi: 10.1007/s10735-026-10716-3</p> <p>Lukianova N, Burda T, Mushii O, Zadvornyi T, Pavlova A, Chekhun V. Integrated expression profile of the MMP-TIMP-miRNA axis in breast cancer cell lines of different molecular subtypes. <i>Experimental Oncology</i> 2025; 47(3): 310-320. doi: 10.15407/exp-oncology.2025.03.310</p> <p>Zadvornyi T. (2025). Digital Pathology as an Innovative Tool for Improving Cancer Diagnosis and Treatment. <i>Experimental Oncology</i>, 46(4), 289-294. doi: 10.15407/exp-oncology.2024.04.289</p> <p>Mushii O, Pavlova A, Bazas V, Zadvornyi T, Lukianova N. (2024). Osteopontin-regulated changes in the mast cell population associated with breast cancer. <i>Experimental Oncology</i>, 46(3), 209-220. doi: 10.15407/exp-oncology.2024.03.209</p> <p>Chekhun V, Borikun T, Zadvornyi T, Mushii O, Stakhovsky E, Vitruk Y, Lukianova N. (2024). Osteonectin (SPARC) prognostic value in prostate cancer. <i>Pathology-Research and Practice</i>, 155053. doi:10.1016/j.prp.2023.155053</p> <p>Lukianova N, Zadvornyi T, Borikun T, Mushii O, Pavlova A, Tymoshenko A, Stakhovskiy E, Vitruk I, Chekhun V. (2023). Significance of osteopontin for predicting aggressiveness of prostate cancer. <i>Exp Oncol</i>, 45(3), 312-321. doi: 10.15407/exp-oncology.2023.03.312</p> <p>Lukianova N, Mushii O, Zadvornyi T, Chekhun V. (2024). Development of an algorithm for biomedical image analysis of the spatial organization of collagen in breast cancer tissue of</p>

	<p>patients with different clinical status. <i>FEBS Open Bio</i>, 14(2024), 675–686. doi: 10.1002/2211-5463.13773</p> <p>Zadvornyi T, Lukianova N, Mushii O, Pavlova A, Voronina O, Chekhun V. (2023). Benign and malignant prostate neoplasms show different spatial organization of collagen. <i>Croatian Medical Journal</i>, 64(6), 413-420. doi:10.3325/cmj.2023.64.413</p> <p>Chekhun V.F., Lukianova N.Yu., Borikun T.V., Bazas V.M., Yalovenko T.M., Shepelenko I.V., Zadvornyi T.V., Kliusov O.M., Dumanskii Y.V. / Chapter 2. The expression profile of tissue and circulating miRNAs for optimization of neoadjuvant therapy of breast cancer patients // <i>Horizons in Cancer Research</i> 2021; 80: 63-112. ISBN: 978-1-53619-563-7</p> <p>Chekhun V.F., Lukianova N.Yu., Polishchuk L.Z., Nalieskina L.A., Zadvornyi T.V., Storchai D.M., Todor I.N., Sobchenko S.O., Demash D.V., Yalovenko T.M., Borikun T.V., Lozovska Yu.V., Vitruk Yu.V., Chepurnaty M.V., Pikul M.V., Stakhovsky O.E., Voilenko O.A., Stakhovsky E.O. / Chapter 3. The role of lactoferrin expression in initiation and progression of most common hormone-dependent cancers // <i>Horizons in Cancer Research</i> 2017; 66: 51-85. ISBN: 978-1-53611-011-1</p> <p>Zadvornyi T., Lukianova N., Borikun T., Tymoshenko A., Mushii O., Voronina O., Vitruk I., Stakhovsky E., Chekhun V. (2022). Mast cells as a tumor microenvironment factor associated with the aggressiveness of prostate cancer. <i>Neoplasma</i>, 69(6), 1490-1498. doi:10.4149/neo_2022_221014N1020</p> <p>Bezdienieznykh N., Lykhova A., Kozak T., Zadvornyi T., Borikun T., Voronina O., & Lukianova N. (2022). Assessment of biosafety and toxicity of hydrophilic gel for implantation in experimental in vitro and in vivo models. <i>BMC Pharmacology and Toxicology</i>, 23(1), 37. doi: 10.1186/s40360-022-00577-3</p> <p>Zadvornyi T.V., Lukianova N.Y., Borikun T.V., Chekhun V.F. Effects of exogenous lactoferrin on phenotypic profile and invasiveness of human prostate cancer cells (DU-145 and LNCAP) in vitro. <i>Exp Oncol</i> 2018; 40 (3): 184–189. doi:10.31768/2312-8852.2018.40(3):184-189</p> <p>Lukianova N., Zadvornyi T., Kashuba E., Borikun T., Mushii O., & Chekhun V. (2022). Expression of markers of bone tissue remodeling in breast cancer and prostate cancer cells in vitro. <i>Experimental Oncology</i>, 44(1), 39-46. doi: 10.32471/exp-oncology.2312-8852.vol-44-no-1.17354</p> <p>Zadvornyi T.V., Lukianova N.Y., Borikun T.V., Vitruk Yu.V., Stakhovsky E.O., Chekhun V. F. NANOG as prognostic factor of prostate cancer course. <i>Exp Oncol</i> 2020; 42(2): 94-100.</p>
Projects	<p>Research project «The role of meprins in modulating the stromal microenvironment of prostate cancer» (state registration number 0125U002918, 2025–2026).</p> <p>Research project «Study of the reactive microenvironment as a factor in the progression of prostate cancer» (state registration number 0125U002918, 2022–2023).</p> <p>Research project "Stress-induced factors of the tumor microenvironment as drivers of breast cancer progression risk" (state registration number 0124U000078, 2024–2028).</p> <p>Research project «Development and validation of complex treatment technology for young patients with breast cancer» (state registration number 0122U201203; 2022-2023)</p> <p>Research project «Experimental estimation of the effectiveness of application and biocompatibility testing algorithm of domestic implantation materials, based on calcium phosphates, for the restoration of the function of the musculoskeletal system in the malignant process» (state registration number 0117U001729; 2017-2021)</p> <p>Research project «The role of epithelial-mesenchymal transition in the mechanisms of formation of human prostate cancer cells» (state registration number 0117U006124, 2017–2018)</p>

Conferences

SELECTED CONFERENCE PAPERS:

Zadvornyi T., Mushii O., Pavlova A., Burda T., Shevchuk A., Tymoshenko A., Yuschenko L., Suslova S., Lukianova N. / The tumor microenvironment of prostate cancer as a driver of metastatic progression // V International Scientific Conference Microbiology and Immunology – the development outlook in the 21st century April 29-30, 2025, Kyiv, Ukraine. – P. 21.

T. Burda, O. Mushii, A. Levenets, M. Kokoilo, **T. Zadvornyi** / Features of meprin expression in benign and malignant prostate neoplasms // Chargaff readings. Materials of the XX International Scientific Conference dedicated to the 150th anniversary of Yuriy Fedkovych Chernivtsi National University and the 120th anniversary of Erwin Chargaff's birth (October 27-30, 2025, Chernivtsi, Ukraine). – 2025. - P.205.

T. Zadvornyi, O. Mushii, T. Burda, A. Tymoshenko, N. Lukianova / Features of lysyl oxidase expression in patients with prostate cancer with different progression risk // 9th Annual International Remote Conference: Science and Society. March 2-3rd and 23rd, 2024, Worldwide

T. Zadvornyi, O. Mushii, T. Borikun, N. Lukianova Prostate cancer microenvironment-derived miRNAs as promising biomarkers of progression disease. 16th Annual Meeting Of The Korean Society Of Medical Oncology & 2023 International Conference. Seoul, Korea, Sep. 7– 8, 2023. Abstract book, P228.

Zadvornyi T., Borikun T, Pavlova A, Vitruk Yu, Stakhovsky E. miR-19a-3p and miR-23b-3p as biomarkers of prostate cancer progression/ EACR-AstraZeneca Cancer Epigenetics. Virtual Event, Worldwide: 5 - 6 December 2023

Zadvornyi T., Mushii O., Solomakha A., Lukianova N. Pathological significance and prognostic roles of densities and distribution of mast cells in prostate cancer // Riga Stradiņš University International Student Conference in "Health and Social Sciences" 2022: 24-25 March, 2022 Riga, Latvia.

Zadvornyi T., Mushii O., Solomakha A., Lukianova Ye., Tymoshenko A. The histoarchitectural features of the tumor microenvironment in patients with prostate cancer with different risk progression // Chance for Science Conference 2022: Conference for academics affected by the war in Ukraine, Leipzig (Worldwide) September 8-9, 2022

Zadvornyi T., Borikun T, Lukianova N. 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. Режим доступу: <https://www.eacr.org/conference/structuralmicroenv2022virtual/digital-abstracts/detail/4483>

Zadvornyi T., Borikun T, Lukianova N. The immunoregulatory genes expression in prostate cancer // 7th Annual international remote conference Science and Society Conference 2022, Worldwide: 26-27 February & 5 March 2022 Режим доступу: <https://www.beyondsciences.org/poster2022/20220219/>

Solomakha A.I., Mushii O.M., Burda T.S., **Zadvornyi T.V.** Characteristic of mast cell infiltration of the prostate cancer // IV International Scientific Conference Microbiology and Immunology – the development outlook in the 21st century. September 22-23, 2022, Kyiv – Abstract book. – P. 95

Taras Zadvornyi, Nataliia Lukianova, Tetiana Borikun, Vasyl Chekhun / 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-0005

Serum lactoferrin levels in patients with benign prostatic hyperplasia and prostate cancer / Vorobei P.M., **Zadvornyi T.V.**, Lukianova N.Yu., Chepurnatyi M.V. // 10th EFIS-EJI South Eastern European Immunology School (SEEIS2018) Yerevan, Armenia, October 19 – 22, 2018. - P. 38.

Study of the biological effects of lactoferrin on the prostate cancer cells with varying sensitivity to hormonal therapy / **Zadvornyi T.**, Lukianova N., Chekhun V. // 5th European Congress of Immunology - Amsterdam, The Netherlands, 2-5 September - 2018. - P. 249.

Exploration of lactoferrin biological effects on prostate cancer cells with different sensitivity to hormonal therapy / **Zadvornyi T.**, Lukianova N., Chekhun V. // EFIS-EJI Tatra Immunology Conference " Molecular Determinants of T-Cell Immunity" - Štrbské Pleso, High Tatra Mountains, Slovakia June 9 - 13, 2018. - P. 111.

Awards & Excellence

2025 – 1st place of the 2024 European Society for Clinical Investigation (ESCI) Bio Art Award
 2025 – 1st place for the best oral report at the V International Scientific Conference "Microbiology and Immunology– the development outlook in the XXI Century" (April 29-30, 2025, Kyiv, Ukraine)
 2024 – President of Ukraine Prize for Young Scientists
 2024 – Danubius Young Scientist Award
 2024 – President of Ukraine Scholarship for Young Scientists
 2024 – 3 place of the 2024 European Society for Clinical Investigation (ESCI) Bio Art Award
 2024 – EACR Researcher Development Grant

	<p>2022 – Young Scientist Scholarship of National Academy of Sciences of Ukraine</p> <p>2023 – Korean Society of Medical Oncology travel grant to participate in the 16th Annual Meeting of the Korean Society of Medical Oncology & 2023 International Conference (KSMO 2023) (Seoul, Korea and Virtual)</p> <p>2023 – 3 place of the 2023 European Society for Clinical Investigation (ESCI) Bio Art Award</p> <p>2023 – James R Carlyle Top Presenter Award for presenting at the Beyond Sciences Initiative 8th International Remote Conference, February 25-26th, 2023</p> <p>2022 – Wendy Havran Poster Award for presenting at the Beyond Sciences Initiative 7th International Remote Conference: Science & Society, February 26th- March 5th, 2022</p> <p>2022 – ESCI travel grant to participate in the 56th Annual Scientific Meeting of ESCI (Bari, Italy)</p> <p>2022 – 2nd place of the the 2022 ESCI Bio Art Award</p> <p>2022 – EACR travel grant to participate in «The Structural Microenvironment: Breaking down the walls of cancer» conference</p> <p>2018 – ACTERIA travel grant to participate in 5th European Congress of Immunology (Amsterdam, Netherlands)</p> <p>2018 – Fellowship for young participants from EFIS to visit 12th EFIS-EJI Tatra Immunology Conference (Štrbské Pleso, Slovakia)</p> <p>2017 — National Academy of Sciences of Ukraine Scholarship for Young Scientists</p> <p>2016 – Fellowship for young participants from EFIS to visit 11th EFIS-EJI Tatra Immunology Conference (Štrbské Pleso, Slovakia)</p> <p>2015 – EFIS- EJI travel grant to participate in 7th EFIS/EJI South East European Immunology School (Becici, Montenegro)</p> <p>2014 – Petro Bohach Scholarship of Taras Shevchenko National University of Kyiv</p>
Membership in scientific societies	<p>Since 2024 – Member of Young Cancer Professionals Group (YCP)</p> <p>Since 2024 – Member of American Association for Cancer Research (AACR)</p> <p>Since 2022 – Member of European Association for Cancer Research (EACR)</p> <p>Since 2020 – Member of European Society for Clinical Investigation (ESCI)</p> <p>Since 2020 – Member of Ukrainian Biochemical Society</p> <p>Since 2023 – Ukrainian society for cancer research (USCR)</p> <p>Since 2018 – Member of Ukrainian Society of Specialists for Immunology, Allergology and Immunorehabilitation</p>
Citation	h-index (Scopus) 10, 228 citations