Curriculum Vitae

PERSONAL RECORDS

Taras Zadvornyi

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Author ID
Scopus: 57192711807
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Sex M
Date of birth 22/06/1992
Nationality Ukraine

Department of cytomorphology, molecular and biological markers of tumor growth

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 Disciplines at the Taras Shevchenko National University of Kyiv, ESC Institute of Biology and Medicine "Antitumor immunity" - Master's Degree in Biology (full-time and part-time)
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 ДКN№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 N№45752403

TRAINING AND COURSES

Period	Phase
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 and Adobe Illustrator. 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, biochemical and hematological blood analysis, ELISA, DNA/RNA extraction, RT PCR, primer construction, 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	**SELECTED PUBLICATIONS:** **Zadvornyi T.** (2025). Digital Pathology as an Innovative Tool for Improving Cancer Diagnosis and Treatment. Experimental Oncology, 46(4), 289–294. doi: 10.15407/exp-oncology.2024.04.289 Mushii O, Pavlova A, Bazas V, **Zadvornyi T**, Lukianova N. (2024). Osteopontin-regulated changes in the mast cell population associated with breast cancer. Experimental Oncology, 46(3), 209–220. doi: 10.15407/exp-oncology.2024.03.209 Chekhun V, Borikun T, **Zadvornyi T**, Mushii O, Stakhovsky E, Vitruk Y, Lukianova N. (2024). Osteonectin (SPARC) prognostic value in prostate cancer. Pathology-Research and Practice, 155053. doi:10.1016/j.prp.2023.155053 Lukianova N, **Zadvornyi T**, Borikun T, Mushii O, Pavlova A, Tymoshenko A, Stakhovskyi E, Vitruk I, Chekhun V. (2023). Significance of osteopontin for predicting aggressiveness of prostate cancer. Exp Oncol, 45(3), 312–321. doi: 10.15407/exp-oncology.2023.03.312 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 patients with different clinical status. FEBS Open Bio, 14(2024), 675–686. doi: 10.1002/2211-5463.13773 **Zadvornyi T**, Lukianova N, Mushii O, Pavlova A, Voronina O, Chekhun V. (2023). Benign and malignant prostate neoplasms show different spatial organization of collagen. Croatian Medical Journal, 64(6), 413-420. doi:10.3325/cmj.2023.64.413 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 // Horizons in Cancer Research 2021; 80: 63-112. ISBN: 978-1-53619-563-7 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., Chepurnatyi 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 // Horizons in Cancer Research 2017; 66: 51-85. ISBN: 978-1-53611-011-1 **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. Neoplasma, 69(6), 1490-1498. doi:10.4149/neo_2022_221014N1020 Bezdieniezhnykh 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. BMC Pharmacology and Toxicology, 23(1), 37. doi: 10.1186/s40360-022-00577-3 **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. Exp Oncol 2018; 40 (3): 184–189. doi:10.31768/2312-8852.2018.40(3):184-189 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. Experimental Oncology, 44(1), 39-46. doi: 10.32471/exp-oncology.2312-8852.vol-44-no-1.17354 **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. Exp Oncol 2020; 42(2): 94-100.
Projects	Name of the project «Study of the reactive microenvironment as a factor in the progression of prostate cancer» Level of the project: all-Ukrainian Organizer of the project: NAS of Ukraine Implementing institution: IEPOR NAS of Ukraine Implementing period: 2022-2023 Number of participants: 4 Source of funding: NAS of Ukraine Form of participation: Head (PI) Form of participation: performer Name of the project: The role of epithelial-mesenchymal transition in the mechanisms of formation of human prostate cancer cells Level of the project: all-Ukrainian Organizer of the project: NAS of Ukraine Executor of the project: IEPOR NAS of Ukraine Period of implementation: 2017-2018 Source of funding: NAS of Ukraine Form of participation: responsible performer Name of the 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» (Registration number in UkrINTEI 0117U001729) Name of the competition: Targeted program of scientific research NAS of Ukraine «Materials for medicine and medical equipment and technologies for their production and use» 2017-2021. Implementing period: 2017-2021 Number of participants: 8 Form of participation: performer Name of the project: Development and validation of complex treatment technology for young patients with breast cancer (Registration number in UkrINTEI 0122U201203) Name of the competition: State order for the most important scientific and technical (experimental) developments and scientific and technical products in 2022-2023 Implementing period: 2022-2023 Number of participants: 13

	Form of participation: responsible performer
Conferences	**SELECTED CONFERENCE PAPERS:** **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 microenvironmentin 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., Chepurnatiy 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 sensitvity 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	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 2022 – 2024 - Young Scientist Scholarship of National Academy of Sciences of Ukraine 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) 2023 – 3 place of the 2023 European Society for Clinical Investigation (ESCI) Bio Art Award 2023 – James R Carlyle Top Presenter Award for presenting at the Beyond Sciences Initiative 8th International Remote Conference, February 25-26th, 2023 2022 – Wendy Havran Poster Award for presenting at the Beyond Sciences Initiative 7th International Remote Conference: Science & Society, February 26th- March 5th, 2022

	2022 – ESCI travel grant to participate in the 56th Annual Scientific Meeting of ESCI (Bari, Italy) 2022 – 2nd place of the the 2022 ESCI Bio Art Award 2022 – EACR travel grant to participate in «The Structural Microenvironment: Breaking down the walls of cancer» conference 2018 – ACTERIA travel grant to participate in 5th European Congress of Immunology (Amsterdam, Netherlands) 2018 – Fellowship for young participants from EFIS to visit 12th EFIS-EJI Tatra Immunology Conference (Štrbské Pleso, Slovakia) 2016 – Fellowship for young participants from EFIS to visit 11th EFIS-EJI Tatra Immunology Conference (Štrbské Pleso, Slovakia) 2015 – EFIS- EJI travel grant to participate in 7th EFIS/EJI South East European Immunology School (Becici, Montenegro) 2014 – Petro Bohach Scholarship of Taras Shevchenko National University of Kyiv
Membership in scientific societies	Since 2024 – Member of American Association for Cancer Research (AACR) Since 2022 – Member of European Association for Cancer Research (EACR) Since 2020 – Member of European Society for Clinical Investigation (ESCI) Since 2020 – Member of Ukrainian Biochemical Society Since 2023 – Ukrainian society for cancer research (USCR) Since 2018 – Member of Ukrainian Society of Specialists for Immunology, Allergology and Immunorehabilitation
Citation	h-index (Scopus) 8, 148 citations