



Curriculum Vitae

Ganusevich I I

PERSONAL INFORMATION



Ganusevich Iryna Ivanivna

45, Vasylkivska str., Kyiv, 03022, Ukraine

+380965137135

iganus2013@gmail.com

Author ID (Scopus) [6507222892](https://orcid.org/0009-0001-6507-2289)

Gender F | Date of birth 29/11/1963 | Citizenship Ukraine

Scientific degree (degree, specialty)	doctor of biological sciences, oncology
Scientific title	senior researcher, AC diploma No.
Position	chief of Department
Department	pathophysiology of metastasis
Institute	RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology (IEPOR), NAS of Ukraine

Educational disciplines in the teaching of which she participated:

In the current year	1. Tumor microenvironment, Redox mechanisms of tumor progression (2023/2024)
In previous periods	2. Tumor microenvironment, graduate students (2019/2022)

EXPERIENCE OF SCIENTIFIC AND SCIENTIFIC-PEDAGOGICAL WORK

Period	Stage
From 2025 until now	Position: Head of the Department of pathophysiology of metastasis of IEPOR. RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology (IEPOR), NAS of Ukraine, 45 Vasylkivska Str., https:// https://www.iepor.site/
	Teaching and research activities: a cycle of lectures, seminars and practical classes for graduate students "Tumor microenvironment", "Redox-mechanisms of tumor progression", scientific supervision of students' course and diploma projects, scientific activity.
	Field of activity or sector Education and science
From 2017 to 2024	Position: Head of the Laboratory of Metastatic Microenvironment Problems of IEPOR. RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology (IEPOR), NAS of Ukraine, 45 Vasylkivska Str., https:// https://www.iepor.site/
	Teaching and research activities: a cycle of lectures, seminars and practical classes for graduate students "Tumor microenvironment", "Redox-mechanisms of tumor progression", scientific supervision of students' course and diploma projects, scientific activity.
	Field of activity or sector Education and science
From 2003 to 2016	Position: senior researcher of the tumor cell microenvironment department RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology (IEPOR), NAS of Ukraine, 45 Vasylkivska Str., https:// https://www.iepor.site/
	Teaching and research activity: scientific management of students' course and diploma projects, scientific activity
	Field of activity or sector Education and science
From 1995 to 2003	Position: researcher of the department of the tumor cells microenvironment Institute of oncology problems by RE Kavetsky NAS of Ukraine, Ukraine, 45 Vasylkivska Str., https://iepor.org.ua/
	Teaching and research activity: management of students' practical work, scientific activity

	Field of activity or sector Education and science
From 1990 to 1995	Position: junior researcher of the department of hemosorption
	Institute of oncology problems by RE Kavetsky NAS of Ukraine, Ukraine, 45 Vasylkivska Str., https://iepor.org.ua/
	Teaching and scientific activity: scientific activity
	Field of activity or sector Education and science
From 1986 to 1990	Position: intern-researcher of the department of hemosorption
	Institute of oncology problems by RE Kavetsky NAS of Ukraine, Ukraine, 45 Vasylkivska Str., https://iepor.org.ua/
	Teaching and research activity: scientific activity
	Field of activity or sector Education and science

EDUCATION AND INTERNSHIP

Period	Stage
2019	RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology (IEPOR), NAS of Ukraine
	Obtained qualification: Doctor of Biological Sciences, specialty: oncology (14.01.07), dissertation "Gelatinases as redox-dependent markers of metastasis and target molecules of anticancer therapy", diploma № 008876.
1995	RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology (IEPOR), NAS of Ukraine
	Received qualification - candidate of biological sciences, specialty: oncology (14.00.14), dissertation "Modification of the microenvironment of tumor cells and the effectiveness of thermochemotherapy", diploma KH №007964.
From 1981 to 1986	Biological faculty of Taras Shevchenko National University of Kyiv (Ukraine)
	Received qualification - biologist-microbiologist, teacher of biology and chemistry, diploma ПВ № 694377.

PERSONAL SKILLS

Name	Level
Language knowledge	
Ukrainian	Native language, fluent
Russian	free
French	Level B1/B2
English	Level A1/A2
Communication competence	She gained communication skills while working as a manager the Department of pathophysiology of metastasis of the RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology (IEPOR), NAS of Ukraine, as well as in the course of activities as part of the organizing committees for holding conferences
Organizational/managerial competence	Management of the team of the Department of pathophysiology of metastasis, scientific projects, research works. Management of diploma and term papers of students. Member of the organizational committee of conferences and the editorial board of the journal "Oncology"
Computer skills	Experienced user. I have a good command of the MS Office package (Excel, Power Point, Word), graphic editors (TotalLab, GelAnalyzer), work with e-mail (Outlook Express). Confident work with different browsers (Opera, Firefox, Chrome, Internet Explorer). Skills in working with the Windows operating system. Working with scientific bibliographic databases (Google Scholar, Scopus).
Professional skills	Methodological arsenal: modern and classical methods of biochemistry and biophysics, immunocyto- and immunohistochemistry, experimental oncology, general clinical oncology.
Areas of professional interests	Peculiarities of the microenvironment of the tumor and adipose tissue and their influence on the metastatic potential and the course of tumor progression in overweight patients. The role of gelatinases in the formation of a dysfunctional state of adipose tissue. Redox state of adipose and tumor tissue in cancer patients with metabolic syndrome. Hypoxia-associated and redox-dependent mechanisms of activation of matrix metalloproteinases-2 and -9 (gelatinases) and the possibility of their use in the development of new approaches in targeted cancer therapy. The role of the tumor microenvironment in the development and course of minimal residual disease, the characteristics of the tumor microenvironment and adipose tissue and their influence on the metastatic potential and the course of tumor progression in overweight patients.

ADDITIONAL INFORMATION

Name	(names of publications, presentations, projects, conferences, seminars, names of awards and prizes, membership in academies, professional and scientific associations, etc.)
Publications (2018-2024)	<p>Articles in Scopus:</p> <ol style="list-style-type: none"> 1. Bubnovskaya, Ganusevich, I., Merentsev, S., & Osinsky, D. (2023). Cancer-associated adipocytes and prognostic value of preoperative neutrophil-lymphocyte ratio in gastric cancer. <i>Experimental Oncology</i>, 45(1), 88 – 98. https://doi.org/10.15407/exp-oncology.2023.01.088 2. Bubnovskaya, Ganusevich, I., Merentsev, S., & Osinsky, D. (2026). Effect of hypoxia on microenvironment factors of gastric cancer and relationship with clinical outcome. <i>Experimental Oncology</i>, 47(3), 267 – 276. https://doi.org/10.15407/exp-oncology.2025.03.267 3. Burlaka, A. P., Burlaka, A. A., Virko, S. V., & Ganusevich, I. I. (2019). Molecular mechanisms of oxidation damage and liver cell dysfunction in patients with metastatic colorectal cancer. <i>Experimental Oncology</i>, 41(4), 328 – 334. https://doi.org/10.32471/exp-oncology.2312-8852.vol-41-no-4.13796 4. Burlaka, A. P., Ganusevich, I. I., Burlaka, A. A., Virko, S. V., & Kolesnik, O. O. (2019). Tumor-Associated redox state in metastatic colorectal cancer. <i>Experimental Oncology</i>, 41(2), 148 – 152. https://doi.org/10.32471/exp-oncology.2312-8852.vol-41-no-2.13128 5. Burlaka, A. P., Ganusevich, I. I., Vovk, A. V, Burlaka, A. A., Gafurov, M. R., & Lukin, S. N. (2018). Colorectal Cancer and Mitochondrial Dysfunctions of the Adjunct Adipose Tissues: A Case Study. <i>BioMed Research International</i>, 2018. https://doi.org/10.1155/2018/2169036 6. Burlaka, A. P., Ganusevich, I. I., Vovk, A. V, Burlaka, A. A., Gafurov, M. R., & Lukin, S. N. (2020). Redox state of adipose tissue for patients with gastric cancer and its connection with the body mass index and distance from the tumor. <i>Obesity Research and Clinical Practice</i>, 14(1), 34 – 38. https://doi.org/10.1016/j.orcp.2019.10.003 7. Burlaka, A. P., Liubenko, D. L., Burlaka, A. A., Yevtushenko, O. I., & Ganusevich, I. I. (2023). Coronavirus sars-cov-2 modifies antitumor redox status of blood and intercellular matrix in metastatic colorectal cancer patients (a pilot study). <i>Experimental Oncology</i>, 45(4), 483 – 492. https://doi.org/10.15407/exp-oncology.2023.04.483 8. Burlaka, A. P., Virko, S. V, Burlaka, A. A., Chernobai, V. A., Yatsyna, O. I., & Ganusevich, I. I. (2020). Cytochrome P450 content in primary tumors and liver metastases of patients with metastatic colorectal cancer. <i>Experimental Oncology</i>, 42(4), 330 – 332. https://doi.org/10.32471/exp-oncology.2312-8852.vol-42-no-4.15310 9. Burlaka, A., Vovk, A., Burlaka, A., Gafurov, M., Iskhakova, K., Ganusevich, I., Virko, S., & Lukin, S. (2019). Redox Status of a Metastatic Microenvironment in the Liver of Patients with Colorectal Cancer from EPR. <i>Applied Magnetic Resonance</i>, 50(1-3), 391 – 402. https://doi.org/10.1007/s00723-018-1093-z 10. Samchenko, Samoilenko, O. A., Verbinenko, A. V, Ganusevich, I. I., Kernosenko, L. O., Poltoratska, T. P., Pasmurtseva, N. O., Solovieva, O. O., & Volobayev, I. I. (2024). Synthesis and application of polyacrylamide hydrogels with incorporated acid-activated Laponite® for diagnosis of oncological diseases. <i>Himia, Fizika Ta Tehnologija Poverhni</i>, 15(4), 514 – 523. https://doi.org/10.15407/hftp15.04.514 11. Samoilenko, Samchenko, Y., Solovieva, O., Kernosenko, L., Poltoratskaya, T., Pasmurtseva, N., Ganusevich, I., Vashchenko, O., Lisetski, L., & Lebovka, N. (2025). Hybrid pNIPAAm hydrogels cross-linked by acid-activated Laponite®: Impact of nanoplatelets on swelling and thermodynamic properties. <i>Journal of Polymer Research</i>, 32(11). https://doi.org/10.1007/s10965-025-04637-0 12. Shlyakhovenko, Samoilenko, O., Verbinenko, A., & Ganusevich, I. (2024). Role of ribonucleases in the regulation of immune response. <i>Experimental Oncology</i>, 46(3), 192 – 201. https://doi.org/10.15407/exp-oncology.2024.03.192 13. Cancer-associated adipocytes and prognostic value of preoperative neutrophil-lymphocyte ratio in gastric cancer / L Bubnovskaya et al. // <i>Exp Oncol.</i> – 2023. – № 45(1). – P. 88–98 14. Coronavirus Sars-COV-2 modifies antitumor redox status of blood and intercellular matrix in metastatic colorectal cancer patients (a pilot study) / A.P. Burlaka et al. // <i>Exp. Oncol.</i> – 2023. – № 45(4). – P. 483–492 15. Redox state of adipose tissue for patients with gastric cancer and its connection with the

	<p>body mass index and distance from the tumor / A.P. Burlaka et al. // <i>Obes. Res. Clin. Pract.</i> – 2020. – № 1. – P. 34–38</p> <p>15. Cytochrome P450 content in primary tumors and liver metastases of patients with metastatic colorectal cancer / A.P. Burlaka, S.V. Virko, A.A. Burlaka [et al.] // <i>Exp. Oncol.</i> – 2020. – № 4. – P. 330–332</p> <p>16. Molecular mechanisms of oxidation damage and liver cell dysfunction in patients with metastatic colorectal cancer / A.P. Burlaka et al. // <i>Exp. Oncol.</i> – 2019. – № 4. – P. 328–334</p> <p>17. Tumor-Associated redox state in metastatic colorectal cancer / A.P. Burlaka et al. // <i>Exp. Oncol.</i> – 2019. – № 2. – P. 148–152</p> <p>18. Redox Status of a Metastatic Microenvironment in the Liver of Patients with Colorectal Cancer from EPR / A. Burlaka et al. // <i>Appl. Magn. Reson.</i> – 2019. – № 1-3. – P. 391–402</p> <p>19. Colorectal Cancer and Mitochondrial Dysfunctions of the Adjunct Adipose Tissues: A Case Study / A.P. Burlaka et al. // <i>Biomed Res. Int.</i> – 2018.</p> <p>Patents:</p> <p>1. Patent of Ukraine for useful model No. 160198 «A method for predicting the course of breast cancer in obesity» / Ganusevych I.I., Samoylenko O.A., Verbinenko A.V., Diomin Ye.M., Osynskiy D.S. // Bull. No. 33. Registered in the State Register on August 13, 2025.</p> <p>2. Patent of Ukraine for useful model No. 153135 "Method of predicting the course of the disease in colorectal cancer patients" / Ganusevych, I. I., Shlyakhovenko, V. O., Samoilenko, O. A., AV, Verbynenko // Bull. No. - 2023</p> <p>3. Patent of Ukraine for useful model No. 143945 "Method of predicting the course of the disease in overweight rectal cancer patients" / I.I. Ganusevych, A.P. Burlaka, A.A. Burlaka // Byul. No. - 2020</p> <p>4. Patent of Ukraine for useful model "Method of predicting the course of minimal residual disease in overweight gastric cancer patients" / I.I. Ganusevych, L.D. Gumenyuk, S.P. Merentsev // Byul. No. - 2019</p>
Projects	<p>Head:</p> <p>5. To determine the role of tumor-associated adipocytes in the influence of factors of the metabolic and stromal microenvironment of the tumor on the course of the tumor process in patients of various ages (2015-2017).</p> <p>6. To investigate the role of dysfunctional adipose tissue in the formation of the microenvironment and metastatic potential of a tumor in overweight individuals. patients with cancer of the gastrointestinal tract (2017 - 2020).</p> <p>7. To study the peculiarities of the dysfunctional state of adipose tissue, which form the metastatic potential and determine the course of the tumor process (2021-2023).</p> <p>8. Development of "smart" biomaterials and functionalized nanoparticles for cancer diagnosis and therapy under stress conditions (NFSU, 2023-2024).</p> <p>9. To determine the redox modulation of blood enzymes as markers of the course of breast cancer with adipose tissue dysfunction (2024-2026).</p> <p>Responsible executor:</p> <p>10. Study of mechanisms of influence of the tumor microenvironment on "hidden" in the bone marrow micrometastases and determination of markers of their control" (2012 - 2014).</p> <p>11. The role of the microenvironment of tumor cells in the body's control of the behavior of "hidden" micrometastases (2012-2016).</p> <p>12. Molecular and biological factors of the heterogeneity of malignant cells and the variability of the clinical course of hormone-dependent tumors</p>
Conferences	<p>1. Scientific and practical conference of young scholars "Fundamental medicine: integral approaches to the treatment of patients with cancer" (Kiev, 2019).</p> <p>2. Scientific and practical conference "Innovative technologies for screening, diagnosis and personalized cancer therapy" (Kiev, 2019).</p> <p>3. II international scientific conference "Tumor and Host: Novel Aspects of Old Problem" (Kyiv, 2019).</p> <p>4. XIV Congress of Oncologists and Radiologists of Ukraine, dedicated to the 100th anniversary of the National Cancer Institute (Kiev, 2021).</p> <p>5. X Mizhn. conference "Medical physics – current state, problems, development paths. New technologies" (Kiev, 2021).</p>

	<p>6. International sciences and practice. Internet conference "Problems and achievements of modern biotechnology" (Kharkiv, 2022).</p> <p>7. Proceedings of All-Ukrainian conference on molecular and cell biology with international participation dedicated to the heroic struggle of the Ukrainian people against Russian invaders (Kiev, 2022).</p> <p>8. All-Ukrainian scientific and practical Internet conference with international participation, dedicated to the 30th anniversary of the founding of the Department of Clinical Pharmacology and Clinical Pharmacy of NUPh (Kharkiv, 2023).</p> <p>9. V Scientific and practical conference of students and young scientists with international participation "From experimental and clinical pathophysiology to the achievement of modern medicine and pharmacy" (Kharkiv, 2023).</p> <p>10. International conference on chemistry and chemical technology, ecology, bioengineering is dedicated to the 125-Rich KPI im. Igor Sikorsky (Kiev, 2023).</p> <p>11. IV International Scientific and Practical Internet Conference "Problems and Advances of Current Biotechnology" (Kiev, 2024).</p> <p>12. All-Ukrainian conference with international participation "CHEMISTRY, PHYSICS AND SURFACE TECHNOLOGY" (Kiev, 2024).</p> <p>13. XXII International Scientific Conference of Students and Young Scientists "Shevchenkivska Spring: Advances in Life Sciences" (Kyiv, 2025).</p> <p>14. V International Scientific and Practical Conference "Problems and Achievements of Modern Biotechnology" (Kharkiv, 2025).</p> <p>15. The 9th International Conference "Nanobiophysics: Fundamental and Applied Aspects" (Kharkiv, 2025).</p>
Link	<p>https://www.scopus.com/authid/detail.uri?authorId=6507222892</p> <p>https://orcid.org/0000-0002-8597-1935</p>
Citation	h-index 11, 367 citations