Curriculum Vitae Sarnatskaya V.V.

PERSONAL INFORMATION

Sarnatskaya Veronika Vyacheslavovna
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Author ID (Scopus) 6602867264

Gender Female| Date of birth 31/03/1961| Citizenship Ukraine

Academic degree (degree, speciality)	Doctor of Biol.Sci 14.03.04 - Pathological physiology
Academic rank	Senior Researcher
Position	Acting Head of Department
Department/Division	Department of ecology and sorption toxicology
Faculty/Institute	R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology of the National Academy of Sciences of Ukraine
Part time position	-

Academic disciplines in which she participated:

In the current year	-
In the previous periods	"Sorption-detoxification methods in oncology", speciality 222 "Medicine", PhD, 2nd year, seminars, practical classes

EXPERIENCE IN RESEARCH AND TEACHING

Період	Етап
from 2025 to the present	Acting Head of Department of ecology and sorption toxicology
from 2023 to 2024	Acting Head of Department of means and methods of sorption therapy
from 2012 to 2022.	Position: Leading Research Scientist of the Department of means and methods of sorption therapy
	R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology of the National Academy of Sciences of Ukraine, 45, Vasylkivska Street, 03022, Kyiv, Ukraine
	Field of activity education/science
from 2000 to 2011	Position: Senior Research Scientist at the Department of of means and methods of sorption therapy

	R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology of the National Academy of Sciences of Ukraine, 45, Vasylkivska Street, 03022, Kyiv, Ukraine
	Field of activity education/science
from 1992 to 1999	Position: Researcher at the Department of Physical and Chemical Mechanisms of Sorption Detoxification
	R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology of the National Academy of Sciences of Ukraine, 45, Vasylkivska Street, 03022, Kyiv, Ukraine
	Field of activity education/science
from 1986 to 1991	Position: Junior Researcher at the Department of Adjuvant Tumor Therapy
	R.E. Kavetsky Institute of Oncology Problems of the National Academy of Sciences of the UkrSSR, 45, Vasylkivska Street, 03022, Kyiv, Ukraine
	Field of activity education/science
from 1984 to 1985	Position: Lead Engineer of the Department of Adjuvant Tumour Therapy
	R.E. Kavetsky Institute of Oncology Problems of the National Academy of Sciences of the UkrSSR, 45, Vasylkivska Street, 03022, Kyiv, Ukraine
	Field of activity education/science

EDUCATION AND TRAINING

Period	Stage
2016	Certificate of awarding the honorary title "Inventor of the Year of the National Academy of Sciences of Ukraine
	Resolution of the Presidium of the National Academy of Sciences of Ukraine No. 147 of 07 July 2016.
2015	She was awarded the academic title of senior researcher in the speciality "Pathological Physiology", certificate of AC No. 001436
	Bohomolets Institute of Physiology, National Academy of Sciences of Ukraine, 4 Bohomolets Akademika St., Kyiv, 01601, Ukraine
2011	Dissertation for the degree of Doctor of Biological Sciences, speciality 14.03.04 - Pathological Physiology, diploma DD № 000497
	State Institution "Luhansk State Medical University, Ukraine, Ukraine, 91045, Luhansk, 50th Anniversary of Defence of Luhansk, 1g
2009	Diploma of Candidate of Biological Sciences in speciality 14.03.04 - Pathological Physiology, diploma DK № 058485 was confirmed
	State Institution "Luhansk State Medical University, Ukraine, Ukraine, 91045, Luhansk, 50th Anniversary of Defence of Luhansk, 1g
1992	Dissertation for the degree of Candidate of Biological Sciences in the speciality 14.00.41 - Transplantology and Atificial Organs, diploma KD № 069496
	Research Institute of Transplantology and Artificial Organs of the Ministry of Health of the Russian Federation, Moscow
from 1978 to 1983	Student of the Kyiv Technological Institute of Light Industry
	Diploma with honours B No. 530109, speciality chemical technology, qualification chemical engineer

PERSONAL SKILLS

Name Level	Level
Native language	Russian/Ukrainian
Foreign language	English, B1/B2 level
Communicative competence	She acquired communication skills while working as a senior researcher at the Department of Physical and Chemical Mechanisms of Sorption Detoxification at the R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology of the National Academy of Sciences of Ukraine
Organisational/management competence	Management of national and international scientific projects, doctoral theses, student research/projects. Managing the process of certification and implementation of the department's scientific developments (medical devices) into medical practice
Computer skills	Experienced user of MS Office (Excel, Power Point, Word), work with e-mail, work with various browsers (Opera, Firefox, Chrome, Internet Explorer). Skills in working with the Windows operating system.
Professional skills	Methodological arsenal: modern and classical methods of biochemical and biophysical analysis.
Professional interests	Efferent Therapy. Sorption Therapy. Sorbents for purification of blood, plasma, transport proteins. Physico-chemical mechanisms of adsorption detoxification. Nanobiotechnology, sorption nanotechnology, carbon nanomaterials. Application of carbon sorbents in cancer treatment.

ADDITIONAL INFORMATION

Title	(titles of publications, presentations, projects, conferences, seminars, awards and prizes, membership in academies, professional and scientific associations, etc.)
Publications	1. **Sarnatskaya V.,** Klimchuk V., Melezhik I., Yushko L.,Yavorskaya N., Shepelevich V., NikolaevV. Influence of lipid coating on the basic characteristics of the applicator carbon fibre materials.-Modern problems of toxicology, food and chemical safety. – 2015. – №1/2 (68/69). - P.83–90. 2. **Sarnatskaya V.V.,** Nikolaev V.G., Yushko L.A., Paziuk L.M, Karaman O. M., Fedosova N.I., Kolesnik D.L., Dasyukevich O.I., Gorbik G.V., Maslenny V.N., Solyanik G.I.. Effect of enterosorption on paraneoplastic symptom manifestation in mice with highly angiogenic variant of lewis lung carcinoma. Experimental Oncology. – 2015.–V. 37, № 4.P.255-261. 3. Shevchuk O., Snezhkova E., **Sarnatskaya V**., Mikhailenko V., Glavin A., Makovetska L., Bardakhivska K., Birchenko I., Kozynchenko O., Nikolaev V. Effect of primary and secondary beads of carbon enterosorbent on haematological parameters and oxidative stress development caused by melphalan in rats. *Medicina* 2019, Vol. 55, Article 557, http://dx.doi.org/10.3390/medicina55090557 4. Shevchuk O.O., Snezhkova E.A., Bilous A.G., **Sarnatskaya V.V.,** Bardakhivska K.I., Sakhno L.A., Chekhun V.F., Nikolaev V.G. Sorption detoxification as an addition to conventional therapy of acute radiation sickness and iatrogenic leukopenia (Chapter). IntechOpen, 2019, DOI:10.5772/intechopen.85690. 5. **Sarnatskaya V.V.,** Sakhno L.A. Paziuk L.M., Yushko L.A., Rodionova N.K., Maslenny V.N., Sydorenko A.S., Nikolaev V.G. Highly activated carbon enterosorbent mediates the suppressor cells from a metastatic renal cell carcinoma. Experimental Oncology, 2018,v.40, №1,33-41; 6. Shlapa Y., **Sarnatskaya V.,** Timashkov I.,Yushko L., Antal I., Gerashchenko B., Nychyporenko I., Belous A., Nikolaev V., Timko M. Synthesis of CeO_2 nanoparticles by precipitation in reversal microemulsions and their physical-chemical and biological properties. *Appl. Phys. A Mater. Sci. Process*. 2019, Vol.

125, Article 412, https://doi.org/10.1007/s00339-019-2706-6
7. Sakhno L.A, **Sarnatskaya V.V,** Yushko L.A., Snezhkova E.A., Bardakhivsk Shevchuk O.O, Sidorenko A.S., Nikolaev V.G. Adsorptive therapy as a modifica tumor-host interaction. *Exp. Oncol.* 2019, Vol. 41, N. 3, P. 254-257.
8. Nychyporenko I.V., Hudenko N.V.Paziuk L.M., Yushko L.O., **Sarnatskaya V.V** Corrective effect of cerium dioxide nanoparticles under conditions of oxidative stress inherent in doxorubicin-induced cardiomyopathy in rats. Young scientist 2019, no. 1, (65), pp. 1-7. (in Ukrainian)
9. **Veronika Sarnatskaya,** Yuliia Shlapa, Larysa Yushko, Irina Shton, Sergii Solopan, Galyna Ostrovska, Liliia Kalachniuk, Anatolii Negelia, Liudmyla Garmanchuk, Igor Prokopenko, Natalya Khudenko, Vitaly Maslenny, Larysa Bubnovskaya, Anatolii Belous, Vladimir Nikolaev**.** Biological activity of cerium dioxide nanoparticles. J Biomed Mater Res. 2020; 108:1703–1712. DOI: 10.1002/jbm.a.36936
10. **Veronika Sarnatskaya,** Victor Mikhailenko, Igor Prokopenko, Bogdan I. Gerashchenko, Oksana Shevchuk, Larysa Yushko, Alexei Glavin, Lyudmila Makovetska, Larysa Sakhno, Oleksii Sydorenko, Oleksandr Kozynchenko, Vladimir Nikolaev. The effect of two formulations of carbon enterosorbents on oxidative stress indexes and molecular conformation of serum albumin in experimental animals exposed to CCl4. Heliyon https://doi.org/10.1016/j.heliyon.2020.e03126
11. **Sarnatskaya VV,** Yushko LA, Prokopenko IV, Hudenko NV, Maslenny VN, Paziuk LM, Bubnovskaya LN, Nikolaev VG. Structural Changes of Serum Albumin in Response to Oxidative Stress Caused by Walker-256 Carcinosarcoma Growth. Exp Oncol 2020;42(1):40-45. DOI: 10.32471/exp-oncology.2312-8852.vol-42-no-1.14336
12. Yushko L.A.**, Sarnatskaya V.V.**, Sakhno L.A., Hudenko N.V., Paziuk L.M., Maslenny V.N, Melnyk V. O., Nikolaev V.G.. Comparative study of biochemical and morphological parameters in rats with carcinosarcoma Walker 256 and Walker 256 / Dox. Exp Oncol 2021 43, 1, 21-25. DOI: 10.32471/exp-oncology.2312-8852.vol-43-no-1.15636
13. Sakhno L.A., Babenko L.P., Lazarenko L.M., Korotich V.G., **Sarnatskaya V.V.,** Snezhkova E.A., Spivak M.Ya., Nikolaev V.G.. Adsorptive carbon dressings for the treatment of malignant fungating wounds in Guerin's carcinoma-bearing rats. Exp Oncol 2021; 43(4).
14. Makovetska L.I., **Sarnatskaya V.V.** Biomarkers of oxidative-carbonyl stress in rats with Guerin's carcinoma in the progression of malignant tumours depending on cisplatin sensitivity. Oncology, 2021, vol. 23, no. 3, 83-92 (in Ukainian)
15. **Veronika Sarnatskaya**, Yuliia Shlapa, Alexandra Lykhova, Olga Brieieva, Igor Prokopenko, Alexey Sidorenko, Serhii Solopan, Denis Kolesnik, AnatoliiBelous, Structure and biological activity of particles produced from highly activated carbon adsorbent. ***Heliyon,*** March 25, 2022, Vol. 8, issue 3, E09163.
DOI:https://doi.org/10.1016/j.heliyon.2022.e09163
16. Yuliia Shlapa, Serhii Solopan, **Veronika Sarnatskaya**, Katarina Siposova, Ivana Garcarova, Katerina Veltruska, Illia Timashkov, Alexandra Lykhova, Denis Kolesnik, Andrey Musatov, Vladimir Nikolaev, Anatolii Belous. Cerium Dioxide Nanoparticles Synthesized via Precipitation at Constant pH: Synthesis, Physical-Chemical and Antioxidant Properties. **Colloids and Surfaces B: Biointerfaces**, 2022,
(https://doi.org/10.1016/j.colsurfb.2022.112960).
https://www.sciencedirect.com/science/article/pii/S0927776522006440
17. Gerashchenko B.I**., Sarnatskaya V.V**., Bardakhivskaya K.I., Sydorenko O.S., Kolesnik D.L., Klymchuk D.O. **Myeloprotection with activated carbon in doxorubicin-treated rats**, Heliyon 2023, 9, p.1-10. *doi:*

	https://doi.org/10.1016/j.heliyon.2023.e18414. 18. Bardakhivska K. I., **Sarnatskaya V. V.**, Gerashchenko B. I., Nikolaev V.G. Influence of enterosorption on the system of tumour-organism interaction and toxic effects of some chemotherapeutic agents. Oncology - 2023. - VOL. 25, NO. 4. - PP. 297-301 (in Ukrainian) 19. **Veronika Sarnatskaya**, Yuliia Shlapa, Denis Kolesnik, Alexandra Lykhova, Dmytro Klymchuk, Serhii Solopan, Svitlana Lyubchyk, Anatolii Belous, Vladimir Nikolaev. Bioactivity of Cerium Dioxide Nanoparticles as a Function of Size and Surface Features. Biomaterials Science, 2024 - BM-ART-001900.R1. 20. Gerashchenko B. I., **Sarnatskaya V. V.**, Bardakhivska K. I. Analysis of the volume of bone marrow cell nuclei for assessment of cytostatic myelosuppression and its prevention by activated carbon, Oncology - 2024, 1. 21. Shlapa Y., Siposova K., **Sarnatskaya V**., Drajnova M., Silvestre-Albero J., Lykhova O., Maraloiu V., Solopan S., Molcan M., Musatov A., Belous A. Composites as Efficient Antioxidants with Anti-amyloid and Radioprotective Potentials. ACS Biomaterials Science & Engineering, 2024 (Manuscript ID: mt-2024-00912x.R1) DOI: 10.1021/acsabm.4c00912 22. **Sarnatska V.V.,** Bardakhivska K.I., Paziuk L.M., Gerashchenko B.I. Patent of Ukraine for utility model "Method for mitigating the negative effects of antitumour doxorubicin chemotherapy". Notification of the date of filing of utility model application u 2024 02662 dated 06.08.2024, application No. 9829/ЗУ/24. 23. **Sarnatska V.V.,** Paziuk L.M., Gerashchenko B.I., Shlapa Y.Y. Patent of Ukraine for utility model "Method for mitigating the negative effects of anticancer chemotherapy". Notification of setting the date of filing of utility model application u 2024 04607 dated 27.09.2024 under No. 12027/ZU/24. 24. **Sarnatska V.V**., Pyatchanina T.V. Patent of Ukraine for utility model "Method for obtaining carbon enterosorbents with increased mechanical stability". Notification on setting the date of filing of utility model application u202404941 dated 15.10.2024 for utility model No. 12903/ZU/24.
Projects	**1. The Royal Society grants** (2000, 2002) **2. INTAS – 2001 –0346** "Experimental and Mathematical Modelling of Adsorptive Properties of New Carbon Pyropolymers for Removal of Unconjugated Bilirubin in Artificial Liver Support Systems**".** **3. NATO Science Programme «**Biolization of carbon adsorbent surface with ligand-induced conformers of human serum albumin". **4. INTAS – 04 –82-7065** "Introduction and evaluation of efficacy of new generation of carbonic hemosorbents in the treatment of complicated and fulminant forms of viral hepatitis in Uzbekistan". **5. INTAS 05-1000007-418** "Development, patenting and preregistration of a new combined haemoadsorbent on the basis of mass-fractal carbonic pyropolymers and diffusion transparent albumin coating". **6. Royal Society International Joint Research Project** "Development of New Adsorbents for Blood and Plasma Purification". **7. CNRS GPZWA92317 International Joint Research Project** – **"**Biospecific ligands grafted onto carbon nanotubes as a novel immunoadsorbent" **8. NATO ASI 2009 – Biodefence: advanced materials and methods for health protection –** Scientific Co-Chairmen (Partner Countries) **PIRSES-GA-2009-24547 MEAD-ET** **9. PIAPP-GA-2011-286366** - ACROBAT - Adsorbent Carbons for the Removal of Biologically Active Toxins **10. HORIZON 2020-MSCA-RISE-2016**-Commissione-Europe Nanoporous and nanostruc-tured materials for radiation injuries treatment. Acronyme «NanoMed». 01.01.2017- 31.12.2020 Подовжено до 01.05.2022 **11. NATO - Science for Peace and Security**, Programme Multi-Year Project

	Application Novel composites based on cerium oxide nanoparticles and carbon enterosorbents for acute radiation sickness therapy (2020-2023)
Конференції	1.**Veronika Sarnatskaya,** Victor Mikhailenko, Oksana Shevchuk, Alexei Glavin, Lydmila Makovetska, Larysa Sakhno1, Larysa Yushko1, Oleksandr Kozynchenko, Vladimir Nikolaev. The effect of two formulations of nano/macroporous carbon enterosorbents on oxidative stress indexes of experimental animals Carbon, 2018, Madrid, Special web issue. 2. Oksana Shevchuk, Elisaveta Snezhkova, **Veronika Sarnatskaya**, Victor Mikhailenko, Alexei Glavin, Lyudmyla Makovetska, Kvitoslava Bardakhivska, Oleksandr Kozynchenko**,**Volodymyr Nikolaev. Reduction of melphalan induced oxidative stress by primary and secondary beads of carbon enterosorbent Carbon, 2018, Madrid, Special web issue. 3.**Veronika Sarnatskaya**, Oleksandr Kozynchenko, Igor Prokopenko , Larysa Yushko ,Alexei Sidorenko, Vitaly Maslenny, Vladimir Nikolaev**.** Biophysical study of the effectiveness of two formulations of nano/macroporous carbon enterosorbents in the treatment of experimental severe intoxication caused by carbon tetrachloride. Carbon, 2018, Madrid, Special web issue. 4. Sakhno L.A., Yurchenko O.V., **Sarnatskaya V.V.,** Yushko L.A., Sidorenko A.S., Snezhkova E.A., Nikolaev V.G. Adsorptive carbon dressing after thermal trauma combined with radiation injury. Materials of 2nd World Congress On Clinical and Medical Sciences, Rome, Italy, October 30-31, 2019, P. 12. 5. Khudenko N., **Sarnatskaya V.**, Nychyporenko I., Paziuk L., Timashkov I., Yushko L., Nikolaev V. Experimental doxorubicin-induced dilated cardiomyopathy: the effect of nanodispersed cerium dioxide. Scientific and Practical Conference of Young Scientists "Basic Medicine: Integral Approaches to the Treatment of Patients with Oncological Pathology", 4-5 February 2019, Kyiv. Oncology 2019, Vol. 21, No. 1, p. 76. 6. Khudenko N.V., **Sarnatskaya V.V**, Yushko L O., Pazuk L.M., Maslenny V.M., Bubnovska L.M., Nikolaev V.G. Study of metabolic shifts caused by development of breast cancer in rats with Walker 256 carcinosarcoma. Abstracts of the 1st scientific and practical conference for students and young scientists with international participation “From experimental and clinical pathophysio-logy to the achieve-ments of modern medicine and pharmacy”, 15 травня 2019 р. – Х.: *Вид-во НФаУ,* 2019, с. 26-27. 7. Hudenko N.V., **Sarnatskaya V.V**., Paziuk L.M., Yusko L.O.,Maslenny V.N., Nikolaev V.G. Cardiomyopathy in rats with Walker 256 carcinosarcoma: generation of reactive oxygen species induces damage of cardiomyocytes. Proceedings of the 6th Ukrainian congress for cell biology with international participation. Яремче, 18-21 червня 2019 р., с. 103. 8. Gerashchenko B.I., Kolesnik D.L., **Sarnatskaya V.V.**, Bardakhivska K.I.. Myeloprotection with activated carbon in doxorubicin-treated rats**.** Abstract, All-Ukrainian Conference with International Participation "SURFACE CHEMISTRY, PHYSICS AND TECHNOLOGY", 19-20 October, 2022, Kyiv.**https://drive.google.com/file/d/1Oyy3enJrV36nAJ2DyxiOlHuc0wFSaOKk/view** 9. **Sarnatskaya V.V.**, Bardakhivska K.I., Paziuk L.M., Melnyk V.O., Gerashchenko B.I. , Nikolaev V.G.. The effect of activated carbon dots on biochemical, morphological and redox state parameters in rats exposed to doxorubicin injection. Abstract, All-Ukrainian Conference with International Participation "SURFACE CHEMISTRY, PHYSICS AND TECHNOLOGY", 19-20 October, 2022, Kyiv. **https://drive.google.com/file/d/1Oyy3enJrV36nAJ2DyxiOlHuc0wFSaOKk/view** 10. **Sarnatskaya V.V.**, Paziuk L.M., Bardakhivska K.I., Korotych V.G., Gerashchenko B.I., Nikolaev V.G.. Experimental cardiomyopathy in rats exposed to

	doxorubicin injection: the effect of activated carbon dots on histological structure of cardiomyocytes. Abstract, All-Ukrainian conference with international participation "THEORY AND PRACTICE OF MODERN MORPHOLOGY", 9-11 November 2022, Dnipro, Ukraine. **https://docs.google.com/a/dmu.edu.ua/viewer?a=v&pid=sites&srcid=ZHNtYS5kcC51YXxjb25mbW9ycGhvbG9neXxneDozOGMyZGZhNjZhYWZmMzI1** 11. Gerashchenko B.I, **Sarnatskaya V.V.,** Bardakhivskaya K.I., Kolesnik D.L. Activated carbon in tackling doxorubicin-induced myelosuppression: comparison of two administration models. V scientific and practical Internet conference with international participation. "Mechanisms of development of pathological processes and diseases and their pharmacological correction" (registration certificate No. 595 of the State Scientific Institution "Ukrainian Institute of Scientific and Technical Expertise and Information" dated 02.08.2021) on the basis of the Department of Normal and Pathological Physiology of the National University of Pharmacy in Kharkiv, 17 November 2022. **https://pat.nuph.edu.ua/v-naukovo-praktychna-internet-konferentsiia/** 12. Bardakhivska K.I., Sarnatskaya V.V., Paziuk L.M., Gerashchenko B.I., Melnik V.O., Nikolaev V.G. Mitigation of doxorubicin-induced cardiotoxicity in rats by activated carbon dots. Vscientific and practical Internet conference with international participation "Mechanisms of development of pathological processes and diseases and their pharmacological correction" (registration certificate No. 595 of the State Scientific Institution "Ukrainian Institute of Scientific and Technical Expertise and Information" dated 02.08.2021) on the basis of the Department of Normal and Pathological Physiology of the National University of Pharmacy in Kharkiv, 17 November 2022. **https://pat.nuph.edu.ua/v-naukovo-praktychna-internet-konferentsiia/** 13. **Sarnatskaya V.,** Kolesnik D., Shlapa Yu., Klymchuk D., Lykhova A., Siposova K., Musatov A., Solopan S., Belous A. Size-Dependent Biological Properties of Cerium Dioxide Nanoparticles Precipitated at Constant pH, Poster at CYTO 2023 in Montréal, Québec, Canada from May 20-24, 2023, Abstract p.254 *https://www.cytoconference.org/index.html* 14. Gerashchenko B., **Sarnatskaya V.,** Bardakhivskaya K., Kolesnik D. Flow Cytometric Study of Myeloprotective Effect of Activated Carbon Preparations in Rats Treated with Doxorubicin, Poster at CYTO 2023 in Montréal, Québec, Canada from May 20-24, 2023, Abstract p.219 *https://www.cytoconference.org/index.html* 15. **Sarnatskaya V.,** Lykhova A., Shlapa Yu., Solopan S., Klymchuk D., Sydorenko O., Belous A. Structure and biological activity of C@CeO_2 nanocomposites, Poster at the 19th Nordic-Baltic Conference on Biomedical Engineering and Medical Physics (NBC 2023), which will be held in Liepaja from June 12th to 14th, 2023, Abstract Book p.156-157, *https://nbc2023.lmifb.lv*. 16. Gerashchenko B.I., **Sarnatskaya V.V**., Bardakhivskaya K.I., Sydorenko O.S., Diyuk O.A., Terebilenko A.V., Klymchuk D.O.. Managing chemotherapy side effects: The use of activated carbon with very high surface area. 19th Nordic-Baltic Conference on Biomedical Engineering and Medical Physics (NBC 2023), which will be held in Liepaja from June 12th to 14th, 2023, Abstract Book p. 65-66, *https://nbc2023.lmifb.lv*. 17.Shlapa Yu., **Sarnatskaya V.**, Solopan S., Gerashchenko B., Sydorenko O., Klymchuk D., Belous A.. Fabrication of nanocomposites for biomedical purposes based on CeO_2 and activated carbon nanoparticles. IEEE NAP-2023, 2023 IEEE 13th International Conference "Nanomaterials: Applications & Properties, Bratislava, Slovakia, Sep.10-15, 2023, Book of Abstract p. 01nss-6, *https://ieeenap.org* 18. Gerashchenko BI, **Sarnatskaya VV**, Bardakhivska KI. Cytometry of bone marrow cell nuclei in monitoring chemotherapy-induced myelosuppression.

	Abstract. 37th Annual Congress of the International Society for the Advancement of Cytometry (CYTO 2024), 4-8 May 2024, Edinburgh, Scotland. 19. B.I. Gerashchenko, **V.V. Sarnatskaya**, Y.Y. Shlapa, L.M. Pazyuk . Tumor chemosensitization to cisplatin by CeO_2 nanoparticles. Abstract. 2024 IEEE International Conference "Nanomaterials: Applications & Properties" https://ieeenap.org. 20. Yuliia Shlapa, **Veronika Sarnatskaya,** Serhii Solopan, Bogdan Gerashchenko, Oleksii Sydorenko, Dmytro Klymchuk, Anatolii Belous. Fabrication of nanocomposites based on the activated carbon and CeO_2 nanoparticles for biomedical application. . 2024 IEEE International Conference "Nanomaterials: Applications & Properties" https://ieeenap.org. 21.Yuliia Shlapa, Katarina Siposova, **Veronika Sarnatskaya**, Bogdan Gerashchenko, Andrey Musatov, Anatolii Belous[1] Biocompatible $C@CeO_2$ Composites: Synthesis, Characterisation, Bioactivity Assessment. Conference 3 - 6 June 2024 - holding of the XXI ICICU. https://www.*xxi-icicu*.online/ XXI-ICICU
Prizes and awards	honorary title "Inventor of the Year of the National Academy of Sciences of Ukraine, 2016
Membership in organisations	Member of the editorial board of the journal “Oncology” Member of the Commission of the competition "Science for Strengthening the Defence and National Security of Ukraine"
Links	https://www.scopus.com/authid/detail.uri?authorId=6602867264
Quotation	h-index 14, 515 citations
Certificates	Certificate of awarding the honorary title "Inventor of the Year of the National Academy of Sciences of Ukraine