Sumy National Agrarian University

YURII SPYCHAK

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Citizenship of Ukraine

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Personal profiles in scientometric databases*	Scopus ID - 58773714400 ORCID – https://orcid.org/0000-0003-2677-0284 Google Scholar : https://scholar.google.com/citations?user=NS77vh0AAAAJ&hl=uk&authuser=1
Education*	*1. Sumy National Agrarian University: from 2015-09-01 to 2019-12-29 | Bachelor (DEPARTMENT OF PLANT PROTECTION NAMED AFTER ASSOCIATE PROFESSOR MISHNYOV A.K.)* *2. Sumy National Agrarian University: from 2019-09-01 to 2020-12-29 | Master (DEPARTMENT OF PLANT PROTECTION NAMED AFTER ASSOCIATE PROFESSOR MISHNYOV A.K.)* *3. Sumy National Agrarian University: from 2021-10-01 to 2025 -09-30 | PhD*
Academic degree*	Doctor of Philosophy (Phd) , field of knowledge 20 Agricultural Sciences and Food, specialty 202 Plant Protection and Quarantine, H25 No. 002955, dated 09/30/2025
Academic title*	

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Professional work experience* *(over the last 10 years)*	September 2023 to present Assistant of Plant Protection named after A.K. Mishnev Sumy National Agrarian University Kondratieva St. , 40021, Sumy (Ukraine)

Main research activities

Participation in collective research projects *(no more than 5 positions in the last 10 years)*	1. Conducting scientific research on the content of heavy metals in soils provided by the HALO TRUST Representative Office in Ukraine (performer) 2. Implementation of contractual issues with The UK Department for Environment ! Food and Rural Affairs (DEFM) (the " FunderJ has undertaken this provide funding via the Official Development Assistance (ODA) Programme entitled'War-Polluted' Soil : Recovery and Remediation '(' Projectf (DEFRA Grant Reference : C29t36; RAU Grant Reference : R-1061). Contract dated 27 AUGUST 2025 (contractor)

Major scientific achievements

Published scientific papers* *(no more than 10 positions in the last 10 years)*	**1.** *Spychak , Y., Rozhkova, T., Tytova , L., Bilyuvska , L., Bakumenko , O., Tatarynova , V., Yemets , O., Demenko , V., Pivtoraiko , V., & Burdulaniuk , A. Changes in the seed and soil microbiota caused by seed treatment with chemical and biological agents // Ecological Engineering & Environmental Technology. - 2025. - Vol. 26, No. 1. – P. 103–110. – DOI: 10.12912/27197050/195636* **2.** *Burdulaniuk , A., Rozhkova, T., Tatarynova , V., Bakumenko , O., Yemets , O., Demenko , V., Pivtoraiko , V. & Spychak , Y. (2025). Influence of anthropogenic and climatic factors on the dynamics of penetration and spread of the quarantine pest Tuta absolute Meyr . in Ukraine. Ecological Engineering & Environmental Technology, 26(1), 280–291.* ***https://doi.org/10.12912/27197050/195739Rozhkova*** *,* **3.** *Rozhkova, T., Burdulanyuk , A., Tatarynova , V., Yemets , O., Demenko , V., Spychak , Y., Pivtoraiko , V., Bakumenko , O. & Rozhkova, Y. (2024). Macroanalysis of Winter Wheat Seeds and Features of their Germination. Ecological Engineering & Environmental Technology, 25(5), 304–311.* ***https://doi.org/10.12912/27197050/186126*** **4.** *Rozhkova, T., Biliavska , L. & Spychak , Y. (2023). Interaction of endophytic fungi of winter wheat seeds. Journal of Plant Protection Research, 63(4), 399–404.* ***https://doi.org/10.24425/jppr.2023.147827*** **5.** *Spychak Y. I., Butenko S. O. Impact systems protection on structure yields and quality grains wheat winter on northern east Ukraine // Bulletin Sumy national agricultural University . Series " Agronomy and Biology ". – 2023. – Issue . 1 (51). – P. 111–119. – DOI:* ***https://doi.org/10.32782/agrobio.2023.1.13***

	6. *Spychak Yu. I. Mycobiota of winter wheat (Triticum L.) seeds depending on protective measures // Visnyk Sumy national agricultural University . Series " Agronomy and Biology ". – 2024. – Issue . 3 (57). – P. 3–11.* ***https://doi.org/10.32782/agrobio.2024.3.1***
Other significant scientific achievements *(no more than 5 positions in the last 10 years)*	**JUL 2024 – DEC 2025** **Assessment of the heavy metals of the lands affected by the demining by The Halo Trust Ukraine** This scientific and applied work presents the results of a study conducted by Sumy National Agrarian University in collaboration with The HALO Trust, which analyzed 3,000 soil samples taken from specific agricultural areas, including demining zones in Kharkiv, Mykolaiv and Kyiv regions. The main objective of the study was to assess the impact of military operations on soil conditions, with a particular focus on the presence of heavy metals in soils. **https://snau.edu.ua/science/ndch/tematichni-naukovi-doslidzhennja/naukovi-doslidzhennja-i-rozrobki-za-mizhnarodnimi-dogovorami/halo-trust/** 2025-2026 **War-Polluted Soil: Recovery and Remediation** The purpose of the research work is to establish the level of changes in the gross concentration of chemical elements in the foundations damaged as a result of military operations. **https://snau.edu.ua/science/ndch/tematichni-naukovi-doslidzhennja/naukovi-doslidzhennja-i-rozrobki-za-mizhnarodnimi-dogovorami/ocinka-shkodi-silskogospodarskim-ugiddjam-ta-ekosistemi-pivnichno-shidnoi-ukraini-vid-rosijskogo-vtorgnennja/** FEB 2026 – CURRENT **Scientific justification and development of effective technologies for the remediation of agricultural soils degraded due to anthropogenic factors and military actions** Development, scientific substantiation and implementation of an innovative integrated bioremediation strategy for rapid, cost-effective and environmentally safe restoration of the fertility of agricultural lands that have undergone significant military degradation (contamination with heavy metals and explosives) in the deoccupied and field-safe territories of Ukraine. This work was supported by the Ministry of Education and Science of Ukraine under grant number 0126U000500.

Presentation of scientific results

Keynote (plenary) presentations at national or international conferences (except for conferences that have always been held in a distance learning format)	
Reports at scientific conferences* (seminars, symposiums, etc.) *(no more than 10 positions in the last 10 years)*	
Teaching activities	
Main author's training courses in higher education institutions (developed based on own research) *(no more than 5 positions in the last 10 years)*	
Main author's methodological developments (textbooks, manuals, methodological materials, curricula for higher education) *(no more than 5 positions in the last 10 years)*	
Expert activity	
Membership in specialized academic councils for dissertation defense *(no more than 5 positions in the last 10 years)*	
Improving scientific qualifications	

Additional professional schools (trainings, summer schools, educational seminars, master classes, courses, etc., to acquire relevant scientific knowledge, skills and abilities) *(no more than 5 positions in the last 10 years)*	
Scientific internships abroad (duration over 2 months, in higher education institutions or research institutions, except for correspondence courses and excluding CIS countries) *(no more than 5 positions in the last 10 years)*	
Foreign language skills*	