Sumy National Agrarian University

BURDULANIUK ALLA

Date of birth: 16 March 1975

Citizenship: Ukraine

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Personal profiles in scientometric databases*	Scopus ID - 57225895986 Web of Science ID - JVZ-0799-2024 ORCID – https://orcid.org/0009-0007-5767-4806 Google Scholar: https://scholar.google.com.ua/citations?user=XVDzWToAAAAJ&hl=uk
Education *	1. Sumy State Agrarian University, 2000, specialization in Agronomy, Master's degree, qualification – scientist agronomist. Diploma SM No. 131733137 dated 30 June 2000. 2. Sumy National Agrarian University, 2020, specialization in Plant Protection and Quarantine, Master's degree, qualification – Master of Plant Protection and Quarantine. Diploma M20 No. 144128 dated 29 December 2020.
Academic degree *	Candidate of Agricultural Sciences dated 13 December 2007, specialization 06.01.14 – Seed Production. V. Ya. Yuriev Institute of Plant Growing of the National Academy of Agrarian Sciences of Ukraine. Diploma DK No. 043681 dated 13 December 2007.
Academic title *	Associate Professor of the Department of Plant Protection since 14 April 2011, Certificate DC No. 006306.

Sumy National Agrarian University

Professional work experience * **(over the last 10 years)**	February 2006 to present: Associate Professor, Department of Plant Protection named after A.K. Mishnev Sumy National Agrarian University 160 G. Kondratyeva Street, 40021, Sumy (Ukraine)

Main research activities

Participation in collective research projects *(no more than 5 positions over the last 10 years)*	1. Selection of promising soft wheat lines for the creation of varieties with group resistance to diseases. State registration number of the research project at UkrINTEI: 0119U102849, (executor); 2. Phytosanitary monitoring and control of harmful organisms in agriculture, State registration number of the research project at UkrINTEI 0123U04019, 2023-2028, (executor); 3. Creation of soft winter wheat lines with 1RS rye genes that control resistance to a group of plant diseases, state registration number NDR in UkrINTEI 0118U006177, 2018-2023 (contractor); 4. Improvement of the system for protecting agricultural crops from harmful organisms, 2023-2028, (executor).

Main scientific achievements

Published scientific papers* *(no more than 10 items for the last 10 years)*	1. Alla Burdulaniuk, Tetiana Rozhkova, Valentyna Tatarynova, Olha Bakumenko, Oleksandr Yemets, Viktor Demenko, Viktor Pivtoraiko, Yuriy Spychak (2025). Influence of anthropogenic and climatic factors on the dynamics of penetration and spread of the quarantine pest Tuta absoluta Meyr. in Ukraine. Ecological Engineering & Environmental Technology (EEET), 26(1), 280-291. https://doi.org/10.12912/27197050/195739 (*Scopus)* *2*. Urii Spychak, Tetiana Rozhkova, Liudmyla Tytova, Liudmyla Biliavska, Olha Bakumenko, Valentyna Tatarynova, Oleksandr Yemets, Viktor Demenko, Viktor Pivtoraiko, Alla Burdulaniuk (2025). Changes in the seed and soil microbiota caused by seed treatment with chemical and biological agents. Ecological Engineering & Environmental Technology (EEET), 26(1), 103-110. ttps://doi.org/10.12912/27197050/195636 (Scopus); 3. Rozhkova, T., Burdulanyuk, A., Tatarynova, V., Yemets, O., Demenko, V., Spychak, Y. ... 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 (*Scopus);*

	4. Yemets O., Vlasenko V., Demenko V., Tatarynova V., Rozhkova T., Burdulaniuk A. O., Bakumenko O., Osmachko O., Shcherbyna Y. Seymska Population of Russian Desman (Desmana moschata L.) in North-Easten Part of Ukraine: A History of Formation and Current State. Indian Journal of Ecology. 47(4): 2020. 1077-1083. (*Scopus).* 5. Burdulaniuk A., Tatarynova V. et al. Dynamics of bark beetle populations in the coniferous forest ecosystem of Polissya, Sumy Region. Ukrainian Journal of Ecology, [S.l.], v. 8, n. 2, p. 95-104, April 2018. ISSN 2520-2138. (Web of Science). 6. Vlasenko V., Bakumenko O., Osmachko O., Burdulaniuk A., Tatarynova V., Demenko V., Rozhkova T., Yemets O., Bilokopytov V., Horbas S., Meng Fanhua, Zhou Qian. Ecological plasticity and adaptability of Chinese winter wheat varieties (Triticum aestivum L.) under the conditions of the North-East forest steppe of Ukraine Ukrainian Journal of Ecology. 2018. v. 8, n. 4. P. 114-121. (Web of Science).
Other significant scientific achievements *(no more than 5 positions for the last 10 years)*	. Burdulaniuk, A., Tatarinova, V., Bakumenko, O., Yemets, O., & Demenko, V. (2023). Risks of the spread of quarantine pests in Ukraine and control of their numbers. Visnyk of Sumy National Agrarian University. Series: Agronomy and Biology, 52(2), 9-19. https://doi.org/10.32782/agrobio.2023.2.2. 2. Burdulanuk A., Tatarinova V., Rozhkova T., Yemets O., Demenko V. Phytosanitary risks of the spread and reproduction of quarantine weeds, control of their numbers in the conditions of the Sumy region of Ukraine. Visnyk of Sumy National Agrarian University. Series "Agronomy and Biology". Issue 1 (43), 2021, pp. 3-10. 3. Yemets O., Tatarinova V., Demenko V., Burdulaniuk A., Pivtorayko V., Bakumenko O. Harmfulness of *Lixus subtillis* to the introduced quinoa crop in north-eastern Ukraine. Tavriya Scientific Visnyk No. 140, 2024. pp. 132-138 (specialised). https://www.tnv-agro.ksauniv.ks.ua/archives/140_2024/19.pdf 4. Demenko V., Yemets O., Tatarinova V., Burdulaniuk A., Pivtorayko V., Bakumenko O. Phytosanitary risks of the spread of creeping thistle in Ukraine. Tavriya Scientific Visnyk No. 141. Part 1. 2024. pp. 65-71. https://www.tnv-agro.ksauniv.ks.ua/archives/141_2025/part_1/11.pdf. 4. Bakumenko O., Vlasenko V., Osmachko O., Burdulaniuk A., Tatarinova V., Demenko V., Yemets O., Sakhoshko M., Bashlay A., Pivtorayko V. Characteristics of adaptive traits in interspecific hybrids of soft winter wheat in the conditions of the north-eastern Forest-Steppe. Visnyk of Sumy National Agrarian University. Series Agronomy and Biology, 3(45), 2021. 10-17. 5. Demenko V., Golinach O., Yemets O., Burdulaniuk A.,

	Rozhkova T., Tatarinova V. Dynamics of winter wheat pest populations in the Sumy region. Visnyk of Sumy National Agrarian University. Series "Agronomy and Biology", Issue 2 (44), 2021. 21-29. 6. Yemets O., Demenko V., Burdulaniuk A., Rozhkova T., Tatarinova V. *Desmana moschata* L. – a relict insectivore of the Seym Regional Landscape Park. Visnyk of Sumy National Agrarian University. Series "Agronomy and Biology", Issue 1 (47), 2022, 48-57. 7. Tatarinova V., Vlasenko V., Burdulaniuk A., Bakumenko O., Demenko V., Yemets O., Rozhkova T., Sakhozhko M. The influence of agroecological factors on the phytosanitary condition of grape agrocenoses in the conditions of the North-Eastern Forest-Steppe of Ukraine. Visnyk of Sumy National Agrarian University. Series "Agronomy and Biology", Issue 2 (48), 2022, pp. 48-57. 8. Rozhkova T., Burdulaniuk A., Tatarinova V., Rozhkova T., Yemets O., Demenko V. The influence of water extracts of plants of the genus *Allium* on the mycoflora of seeds and the development of winter wheat seedlings. Visnyk of Agricultural Science of the Black Sea Region. 2020. Issue 3. pp. 53-61.

Presentation of scientific results

Keynote (plenary) presentations at conferences of national or international level (except for conferences that have always been held in absentia)	1. Burduhanyuk A., Berezhny M., Dmytrenko V. Limited-spread quarantine pests in Ukraine and the dynamics of their spread / International scientific and practical conference "Goncharov Readings dedicated to the 93rd anniversary of the birth of Doctor of Agricultural Sciences, Professor Mykola Demyanovich Goncharov, 25 May 2022. 2. Burdulaniuk A., Dyachenko A. Dynamics of the development and spread of plant diseases under internal quarantine / International Scientific and Practical Conference "Goncharov Readings dedicated to the 93rd anniversary of the birth of Doctor of Agricultural Sciences, Professor Mykola Demyanovich Goncharov, 25 May 2022. 3. Burdulaniuk A. Dynamics of the spread *of Diabrotica virgifera Le* Conte and control of its population in Ukraine // Plant protection and quarantine in the 21st century: problems and prospects. Proceedings of the II International Scientific and Practical Conference dedicated to the anniversary dates of the birth of outstanding entomologists, Doctors of Biological Sciences, Professors O. Migulin and O. Zakharenko (Kharkiv, DBTU, 19–20 October 2023). – P. 25-29. 4. Burdulaniuk A., Savorsky V. Resistance of spring barley varieties to disease development in the conditions of the north-eastern forest-steppe of Ukraine. Scientific guidelines: theory and practice of research: collection of scientific papers with materials from the III International Scientific Conference, Uzhhorod, 17 May 2024 / International Centre

	for Scientific Research. — Vinnytsia: Ukrgolos Group LLC, 2024. — 386 p. DOI 10.62731/mcnd-17.05.2024. 5. Tatarinova, A. Burdulanuk, O. Bakumenko, V. Demenko, O. Yemets, V. Pivtorayko. The influence of winter wheat cultivation technology elements on the development and spread of major crop diseases // XXV International Scientific and Practical Forum "Theory and Practice of Agricultural Development", 2–4 October 2024, Dublyany 2024, pp. 301–304.
Reports at scientific conferences* (seminars, symposia, etc.) *(no more than 10 items for the last 10 years)*	1. Garkavenko O., Burdulanik A. Quarantine status of agricultural crops in the Kyiv region / Materials of the scientific and practical conference of teachers, postgraduate students and students of Sumy NAU (26-29 April 2022), 723 p. 2. Burdulyanyuk A. Spread and control of quarantine pests in Ukraine. Materials of the scientific and practical conference of teachers, postgraduate students and students of Sumy NAU (14-16 May 2024). – Sumy, 2024. – 728 p. 3. Burdulanuk A., Mikhailenko O. Main diseases of sunflower and protection measures in the conditions of SFG Ukraine Lubensky district of Poltava region. Materials from the scientific and practical conference of teachers, postgraduates and students of Sumy National Agrarian University (14-16 May 2024). – Sumy, 2024. – 728 p. 4. Karpenyuk V., Burdulyanyuk A., Phytosanitary control of the spread of the quarantine weed *Ambrosia Artemisiifolia L.* in Ukraine. Proceedings of the scientific and practical conference of teachers, postgraduate students and students of Sumy National Agrarian University (14-18 April 2025). – Sumy, 2025. – P. 50.
Teaching activity	
Main author's training courses in higher education institutions (developed on the basis of own research) *(no more than 5 items for the last 10 years)*	Pesticide Toxicology, Level II Higher Education, Sumy National Agrarian University, 5 ECTS credits. https://cdn.snau.edu.ua/moodle/course/view.php?id=1166. 2. Biosafety in plant protection, Level II higher education, Sumy National Agrarian University, 5 ECTS credits https://cdn.snau.edu.ua/moodle/course/view.php?id=1259 3. Disinfection of regulated objects and regulatory and legal relations in plant protection and quarantine. Level II of higher education https://cdn.snau.edu.ua/moodle/course/view.php?id=1188 3. Mites, nematodes, rodents. Level I of higher education, Sumy National Agrarian University, 5 ECTS credits. https://cdn.snau.edu.ua/moodle/course/view.php?id=1088 4. Fundamentals of quarantine, Level I of higher education, Sumy National Agrarian University, 5 ECTS credits. https://cdn.snau.edu.ua/moodle/course/view.php?id=1981 5. Diseases of ornamental and medicinal plants and field-

	protecting forest strips, Level I of higher education, Sumy National Agrarian University, 5 ECTS credits. https://cdn.snau.edu.ua/moodle/course/view.php?id=1040 6. Biological protection of agricultural crops from weeds, Level I higher education, Sumy National Agrarian University, 5 ECTS credits. https://cdn.snau.edu.ua/moodle/course/view.php?id=1755
Major author's methodological developments (textbooks, manuals, teaching materials, curricula for higher education) *(no more than 5 items for the last 10 years)*	. General Entomology: Textbook / Yemets O., Demenko V., A. O. Burdulaniuk A., Pivtorayko V. – Sumy: SNAU, 2025. – 271 p. 2. Quarantine plant diseases: textbook / Tatarinova V., Bakumenko O., Burdulaniuk A. Sumy: Mriya-1, 2024. – 298 p. For training specialists in the fields of "Plant Protection and Quarantine", "Agronomy", "Horticulture and Landscaping", and "Forestry" at agricultural higher education institutions. 3. Burdulaniuk A., Rozhkova T., Tatarinova V. Fundamentals of Plant Quarantine. Textbook (Textbook (lecture notes, assignments for laboratory and practical classes and independent work of students) for 4th year students of the Faculty of Agrotechnology and Environmental Management, speciality 202 "Plant Protection and Quarantine" OS "Bachelor" – Sumy: Sumy National Agrarian University, 2019. – 151 p. 4. Burdulaniuk A. Diseases of ornamental and flowering plants and field-protecting forest strips. Methodological guidelines for practical classes and independent work for 4th-year full-time students of the Bachelor's degree programme, specialisation 202 "Plant Protection and Quarantine" Sumy, SNAU 2024, 83 p. 5. Burdulanuk A., Tatarinova V., Rozhkova T. Rodentology. Methodological guidelines for practical classes and independent work for 2nd year full-time students of the Junior Bachelor's degree program (initial level) specializing in 202 "Plant Protection and Quarantine" // Sumy: SNAU. - 2024. - 46 p. 6. Burdulyanyuk A.O., Vlasenko V.A., Dmitrivsky I.O. State phytosanitary activities. Methodological guidelines for practical classes and independent work for 2nd year full-time students of the Junior Bachelor (initial level) programme in the specialty 202 "Plant Protection and Quarantine" // Sumy: SNAU. - 2025. - 47 p.

Improving scientific qualifications

Additional professional training (trainings, summer schools, educational seminars, workshops, courses, etc. to obtain relevant scientific knowledge, skills and abilities) *(no more than 5 positions in the last 10 years)*	1. Professional development. Sumy State Pedagogical University A.S. Makarenko from 25 November 2019 to 1 August 2020, 180 hours (6 credits). Topic: "Innovative technologies for teaching disciplines in the field of plant protection and quarantine" (certificate PZ 02125510/000093-20 dated 8 January 2020). 2. Professional development. Sumy State Pedagogical University A.S. Makarenko from 3 March 2025 to 12 March 2025 (Certificate of professional development PK 02125510/003994-25 dated 12 March 2025). Topic: "Technologies for teaching biological disciplines and conducting scientific research in biology."
Scientific internships abroad (for more than 2 months, in higher education institutions or research institutions, except for part-time and excluding CIS countries) *(no more than 5 positions in the last 10 years)*	. Higher School of Management and Administration in Opole, Poland. (Wyższa Szkoła Zarządzania i Administracji w Opolu, http://www.wszia.opole.pl/uk/). Topic: "Best Management Practices in Ecology and Plant Protection for Implementation in Ukraine", 1 March to 31 May 2020 (180). Certificate No. 089. 2. VI International Programme for the Professional Development of Heads of Educational and Scientific Institutions, as well as Pedagogical and Scientific-Pedagogical Workers "Together with Outstanding Leaders of Today: Values, Experience, Knowledge, Competences and Technologies for the Formation of a Successful Personality and Transformation of the World" 23 June – 20 August 2022, 180 hours or 6 ESTS credits (including 15 hours of inclusive education / 0.5 ESTS credits) Certificate No. 8143 / 20 August 2022. Awarded the qualification "International Leader in Education and Science, according to UNESCO qualifications" and "International Teacher/Lecturer".