



BERDIN SERGII

Date of birth 25 May 1963

Citizenship Ukrainian

Contact information *

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Education *

1. Sumy branch of the Kharkiv Agricultural Institute, Sumy (Ukraine), 1980-1985, speciality: agronomy, qualification: scientist-agronomist. Honours degree number KB 794041 from 25 January 2085.

Academic degree *

Candidate of Agricultural Sciences from 13 January 1999, Plant Production Institute nd. a. V.Ya. Yuriev of NAAS of Ukraine, Kharkiv (Ukraine), 06.01.05 - breeding and seed production, DK № 002398





Academic title *	Associate Professor of the Department of - Breeding and seed production from 18 October 2001, DC № 003339
Professional work experience *	September 2002 – to date Associate Professor of Plant Breeding and Seed Production <i>Sumy National Agrarian University</i> <i>160 Kondratiev Street, Sumy, 40021 (Ukraine)</i> September 2002 – present Senior Lecturer, Department of Plant Breeding and Seed Production <i>Sumy National Agrarian University</i> <i>160 Kondratiev Street, Sumy, 40021 (Ukraine)</i> January 1990 - July 1999 Assistant at the Department of Selection and Seed Production <i>Sumy State Agricultural Institute</i> <i>40021, Sumy, 160 Kondratiev Street (Ukraine)</i> September 1989 – January 1990 Full-time postgraduate student <i>Sumy Branch of Kharkiv Agricultural Institute</i> <i>40021, Sumy, 160 Kondratiev Street (Ukraine)</i> January 1987 – May 1989 Chief agronomist <i>collective farm «Druzhba»</i> <i>Hruzke village, Konotop district, Sumy region (Ukraine)</i>
Main research activities	
Participation in collective research projects <i>(no more than 5 positions in the last 10 years)</i>	№. d.r.0119U103779. Development of environmentally safe, economically viable intensive technologies for growing agricultural crops to obtain high-quality products.
Individual research projects (which have received funding on a competitive basis from a third party) <i>(no more than 5 positions in the last 10 years)</i>	Economic Research topic: Research on fungicide protection in flax cultivation and the effect of inoculation on soybean crop parameters. № 14-6 від 14.06.2024
Main scientific achievements	





Published scientific papers*

(no more than 10 items for the last 10 years)

1. Vlasenko V.A., Osmachko O.M., Bakumenko O.M. Methodical recommendations for the selection of wheat lines with group resistance to diseases that are carriers of wheat-rye translocations. In: FOP Lytovchenko E.B., 2020. 154 c. ISBN 978-966-97981-3-8 (protocol No. 2 of 21.09.2020, ordered by the Ministry of Education and Science of Ukraine) (ordered by the Ministry of Education and Science of Ukraine).
2. Kovalenko IM, Kandyba NM, Rozhkova T, Kryuchko LV, Bakumenko OM, Kovalenko VM, Vereshchagin IV, Danilchenko OM Textbook 'Laboratory work in agronomy'. Sumy: FOP Tsioma SP, 2020. 236 c. ISBN 978-617-7487-67-7
3. Bakumenko O.M. Combining ability of winter wheat varieties Kryzhynka and Smuglyanka: Monograph / O.M. Bakumenko, O.M. Osmachko, V.A. Vlasenko. Sumy, Mriya. 2019. 194 c. Bakumenko O. M. Combinative ability of winter wheat cultivars Kryzhynka and Smuhlianka: Monograph / O. M. Bakumenko, O. M. Osmachko, V. A. Vlasenko. Sumy, 'Mriya'. 2019. 194 p. ISBN 978-966-566-740-7
4. Realisation of the productivity potential of raspberry varieties of different origin in the conditions of the North-Eastern Forest-Steppe of Ukraine. Actual Problems of Natural Sciences: Modern Scientific Discussions. Lublin, the Republic of Poland. 2020. P. 142-155. doi.org/m.30525/978-9934-588-45-7.9 (foreign collective monograph).
5. Bakumenko O.M., Vlasenko V.A. Fundamentals of biological protection of plants against pests: Study guide (lecture notes and assignments for LPC) For applicants for higher education institutions in the speciality 'Plant Protection and Quarantine', as well as for applicants, postgraduate students and teachers of biological and agronomic universities and specialists in plant protection and quarantine // Sumy: SNAU, 2021, 129 p. (Minutes No. 11 of 18.05.2021).
6. Berdin S.I., Murach O.M., Zubko O.M., Trius V.O. Dynamics of the formation of generative organs of soybean plants under the action of pre-sowing seed treatment preparations. Tavriya Scientific Bulletin. 2024 No. 137. P. 28–34. <https://doi.org/10.32782/2226-0099.2024.137.4>
7. Berdin S.I., Onychko T.I., Butenko E.Yu. Formation of the yield of sunflower hybrids of different maturity groups in the conditions of the North-Eastern Forest-Steppe of Ukraine. Irrigated agriculture. Collection of scientific works. 2024. Issue 82. pp. 5–10. <https://doi.org/10.32848/0135-2369.2024.82.1>
8. O. M. Zubko, S. I. Berdin, E. Yu. Butenko, A. A. Stavitsky. The influence of biological preparations for pre-sowing seed treatment on the dynamics of the formation of morphological characteristics of soybeans. Ukrainian Journal of Natural Sciences. 2025. No. 11. pp. 126-135. <https://doi.org/10.32782/naturaljournal.11.2025.13>





9. Zakharchenko E.A., Petrenko S.V., Berdin S.I., Podhaietskyi A.A., Kravchenko N.V., Hnitetskyi M.O., Hlupak Z.I., Bordun R.M., Tiutiunnyk O.S., Tryus V.O. Response of maize plants to seeding rates under conditions of typical black soil. *Modern Phytomorphology*. 2023. Vol. 17. P. 71-74. DOI: 10.5281/zenodo.2023-17-200119

Kysylchuk A., Zakharchenko E., Turchina S., Dashutina L., Bolshakov Y, Lemishko S, Chernykh S, Azarov V, Berdin S, Vereshchahin I, Tkachenko R. Management of cultivation, market analyses, diversification, and changes in herbicide groups of sunflowers in the northeastern region of Ukraine. *Modern Phytomorphology*, 2025. Vol. 19. P. 178-182. DOI: 10.5281/zenodo.200121 (10.5281/zenodo.2025-19-PDFNo.)

Other significant scientific achievements

(no more than 5 positions for the last 10 years)

1. Berdin S. I., Murach O. M., Onychko V. I. Individual productivity of soybean plants under the action of a microbial preparation and plant growth regulator. The 2nd International scientific and practical conference “Innovations and prospects of world science” (6–8 October 2021) Perfect Publishing, Vancouver, Canada. 2021. 642 p. 2021. pp. 23–29.

2. Berdin S. I., Murach O. M., Lemeshev D. R. Realisation of the genetic potential of modern corn hybrids by optimising plant density. Population ecology of plants: current status, growth points: materials of the 2nd international symposium, Sumy, 4-6 April. 2022. Sumy: SNAU, 2022. P.

3. Berdin S.I., Muzyka L.P. Structural analysis of Sarepta mustard plants grown in the north-eastern forest-steppe of Ukraine. *Goncharivski Readings: Proceedings of the International Scientific and Practical Conference*, Sumy, 25 May 2022. Sumy: SNAU, 2022. P. 51–53.

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. Stakholis I.M., Berdin S.I. Use of stubble destructors for buckwheat crops // *Goncharivski Readings: materials of the international scientific and practical conference*, 23-24 May 2025, Sumy. Pp. 111-112.

2. Kovalenko V.M., Berdin S.I. Genomic prediction in higher plants // *Goncharivski Readings: materials of the international scientific and practical conference*, 23-24 May 2025, Sumy. P. 53-55. 4. Berdin S.I., Strakholis I.M. Domestic and international experience in optimising buckwheat cultivation. *Goncharivski Readings: materials from the international scientific and practical conference*, Sumy, 25 May 2022. Sumy: SNAU, 2022. Pp. 80–81.

3. Berdin S.I., Strakholis I.M. Formation of a selection bank of buckwheat varieties based on economically valuable properties. *Goncharivski Readings: materials from the international scientific and practical conference*, Sumy, 25 May 2022. Sumy: SNAU, 2022. pp. 41–43.





Reports at scientific conferences* (seminars, symposia, etc.)

*(no more than 10 items for the last 10
years)*

1. Berdin S.I. The effect of seed inoculation and biological agents on the height of pea plants in the north-eastern forest-steppe zone of Ukraine. The 11th International scientific and practical conference "Innovative development of science, technology and education" (1-3 August 2024) Perfect Publishing, Vancouver, Canada. 2024. P. 11-14
2. Berdin S. I., Murach O. M., Avdeev D. S. The effect of microfertilisers on soybean yield in the north-eastern forest-steppe zone of Ukraine // Goncharivski Readings: materials of the scientific and practical conference, 24 May 2024, Sumy. Pp. 59-60.
3. Romanenko M. O., Murach O. M., Berdin S. I. The influence of soil cultivation schemes for soybean sowing in the conditions of the north-eastern forest-steppe of Ukraine // Goncharivski Readings: materials of the scientific and practical conference, 24 May 2024, Sumy. Pp. 126–127.
4. Strakholis I.M., Savustyanenko V.M., Berdin S.I. The structure of sown areas as a technological aspect of buckwheat cultivation in the conditions of the north-eastern Forest-Steppe of Ukraine // Goncharivski Readings: materials of the scientific and practical conference, 24 May 2024, Sumy. Pp. 87-88.
5. Shevchenko R.S., Berdin S.I. Formation of potato yield depending on the size of planting tubers in the conditions of the north-eastern Forest-Steppe of Ukraine // Goncharivski Readings: materials of the scientific and practical conference, 24 May 2024, Sumy. P. 98-100.
6. Lazarev O. V., Berdin S. I. Factors determining the control range with changes in the sowing rate of hard spring wheat // Goncharivski Readings: materials of the scientific and practical conference, 24 May 2024, Sumy. pp. 61-63.
7. Stakholis I.M., Berdin S.I. Use of stubble destructors for buckwheat crops // Goncharivski Readings: Proceedings of the International Scientific and Practical Conference, 23-24 May 2025, Sumy. pp. 111-112.

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)*

- Practical seed production and variety control. , II level of higher education, Sumy National Agrarian University, 5 ECTS credit
- Smart technologies in agronomy. , II level of higher education, Sumy National Agrarian University, 5 ECTS credit
- Special seed production for field crops. , II level of higher education, Sumy National Agrarian University, 5 ECTS credit
- Organisation of seed production introduction. , III level of higher education, Sumy National Agrarian University, 5 ECTS credit





Major author's methodological developments (textbooks, manuals, teaching materials, curricula for higher education) <i>(no more than 5 items for the last 10 years)</i>	1. Berdin S. I., Onychko V. I., Onychko T. O. Practical seed production and variety control – part 1. - Practical seed production: textbook. Sumy, 2019. 240 p. 2. Kabanets V.M., Rudnyk-Ivashchenko O. I., Kabanets V. V., Berdin S. I. Phytomeliorative potential of hemp crops: monograph. FOP Shcherbina I. V, 2021. 120 p. 3. Onychko V.I., Berdin S.I., Onychko T.O. Special seed production of field crops. Part 1. Textbook. Sumy, 2025. 200 p.
Improving scientific qualifications	
Additional professional training (trainings, summer schools, educational seminars, workshops, courses, etc. to obtain relevant scientific knowledge, skills and abilities) <i>(no more than 5 positions in the last 10 years)</i>	1. Poltava State Academy 'Modern online technologies and information technologies in agriculture.' (15.03-16.03 – 2018) 2. Innovative professional competencies in pedagogical activities. NUBiP. Certificate SS00493706/023541-24 3. International internship Fundraising and Organisation of Project Activities in Educational Establishments: European Experience. Krakow, Poland. From 6 November to 12 December 2021. Certificate SZFL-000997/
Scientific internships abroad (for more than 2 months, in higher education institutions or research institutions, except for part-time and excluding CIS countries) <i>(no more than 5 positions in the last 10 years)</i>	1. International internship Fundraising and Organisation of Project Activities in Educational Establishments: European Experience. Krakow, Poland. From 6 November to 12 December 2021. Certificate SZFL-000997/
Membership in independent scientific organisations (non-institutional professional academic associations, societies, unions, unions of researchers, except for trade unions) <i>(no more than 5 positions in the last 10 years)</i>	Member of the Academic Council of the Institute of Agriculture of the North-East of the National Academy of Agrarian Sciences.
Knowledge of foreign languages	English with a dictionary

