



Andrii Melnyk

Date of birth 16.05.1972

Citizenship Ukrainian

Contact information *

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Personal profiles in scientometric databases*

ID Scopus - 57218873419

ID Web of Science - V-4595-2018

Publons - ABD-7322-2020

Mendeley - <https://www.mendeley.com/profiles/olhabakumenko/>

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Scholar google - https://scholar.google.com.ua/citations?view_op=list_works&hl=ru&user=I7pkfqgAAAAJ

Education *

"Agronomy", 1993. Qualification: Agronomist

"Landscaping", 2017. Qualification: Specialist in Landscaping

"Forestry", 2019. Qualification: Master of Forestry

Academic degree *

Candidate of Agricultural Sciences (PhD equivalent), Specialty 06.01.09 – Crop Production (Diploma No. 00303278, 12 May 1999).

Dissertation topic: “Effect of Sunflower Seed Quality on Its Productivity under the Conditions of the North-Eastern Forest-Steppe of Ukraine.”





	<p>Doctor of Agricultural Sciences, Specialty 06.01.09 – Crop Production (Diploma DD No. 001993, 25 April 2013).</p> <p>Dissertation topic: “Agrobiological Principles of Sunflower and Spring Rapeseed Yield Formation in the Left-Bank Forest-Steppe of Ukraine.”</p>
Academic title *	<p>Associate Professor of the Department of Plant Production, Sumy National Agrarian University, (DC No. 004690 dated 05/18/2002)</p> <p>Professor of the Department of Horticulture and Forestry, Sumy National Agrarian University, (12PR No. 009742 dated 06/26/2014)</p>
Professional work experience *	<p>02.12.2025 to date Head of the department horticulture and forestry <i>Sumy National Agrarian University</i> <i>160, G. Kondratieva Str., 40021, Sumy (Ukraine)</i></p> <p>2013 - 2025 Professor of Agrotechnologies and Natural Resource Management department <i>Sumy National Agrarian University</i> <i>160, G. Kondratieva Str., 40021, Sumy (Ukraine)</i></p> <p>2000-2013 Assistant professor of plant-growing department <i>Sumy National Agrarian University</i> <i>160, G. Kondratieva Str., 40021, Sumy (Ukraine)</i></p> <p>1994-1999 Assistant of plant-growing department <i>Sumy National Agrarian University</i> <i>160, G. Kondratieva Str., 40021, Sumy (Ukraine)</i></p>
Main research activities	
<p>Management of collective research projects (which received funding on a competitive basis outside the main place of work)</p> <p><i>(no more than 5 positions in the last 10 years)</i></p>	<ul style="list-style-type: none">➤ Executor of 5 DBT topics (state budget) and head of 25 GDT (economic contract topics) in the direction of "Study of the effectiveness of chemical and biological preparations for growing agricultural and forest crops";➤ During the period 2016-2025, research and development work was carried out for Bayer LLC in the amount of over 1.5 million UAH.➤ 2025-2026 - Post-war monitoring of urbanised ecosystems and phytoremediation in the North-Eastern Forest-Steppe zone of Ukraine (Ministry of Foreign Affairs of the Czech Republic, Czech University of Life Sciences)





	<p>Prague).</p> <p>➤ 2025-2028 - DUAHN (University of Applied Sciences Weihenstephan-Triesdorf, Germany).</p>
<p>Participation in collective research projects</p> <p><i>(no more than 5 positions in the last 10 years)</i></p>	<p>1. Research project: “Development of modern methods for identifying stress in agricultural crops and ways to reduce it” (No. 0121U113642, 2021–2025).</p> <p>2. Research project: “Peculiarities of cultivation of cereal, oilseed and energy crops under current climate change conditions in the Left-Bank Forest-Steppe of Ukraine” (No. 0124U002342, 2024–2028).</p> <p>2. Member of the Editorial Board of the scientific journal “Bulletin of Sumy National Agrarian University. Series: Agronomy and Biology”, Category B. https://snaubulletin.com.ua/index.php/ab/about/editorialTeam</p>
<p>Individual research projects (which have received funding on a competitive basis from a third party)</p> <p><i>(no more than 5 positions in the last 10 years)</i></p>	<p>2016–2019 - Team Leader from SNAU in Project of German-Ukrainian cooperation in the field of organic farming (Federal Ministry of Food and Agriculture of Germany (hereinafter: BMEL) and the Ministry of Agriculture and Food of Ukraine (hereinafter: MAPP) in May 18, 2016 signed a protocol; Academic exchange Erasmus + (KA 1072020) for the period 1.06.2023 to 28 .07.2023 University of Applied Sciences Weihenstephan-Triesdorf (Germany, 2023);</p> <p>2025-2026 - Post-war monitoring of urbanised ecosystems and phytoremediation in the North-Eastern Forest-Steppe zone of Ukraine (Ministry of Foreign Affairs of the Czech Republic, Czech University of Life Sciences Prague).</p> <p>2025-2028 - DUAHN (University of Applied Sciences Weihenstephan-Triesdorf, Germany).</p>

Main scientific achievements

Published scientific papers*

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

1. Sergey Butenko, Andrii Melnyk, Tetiana Melnyk, Peipei Jia, Volodymyr Kolosok. Influence of Growth Regulators with Anti-Stress Activity on Productivity Parameters of *Sinapis alba* L. // Journal of Ecological Engineering 2022, 23(9), 128–135. Scopus.
2. Andriy Melnyk, Yuriy Romanko, Anhelina Dudka, Vika Chervona, Maxim Brunyov, Evhen Sorokolit. Ecological elasticity of soy varieties' performance according to climatic factors in Ukraine. AgroLife Scientific Journal. 2022. Volume 11. No. 2. P. 91–99.

DOI: <https://doi.org/10.17930/AGL2022212>





3. Andrii Melnyk, Peipei Jia, Tetiana Melnyk, Andrii Butenko, Volodymyr Kolosok, Sergey Butenko. The influence of plant growth regulators on morphological indexes and performance of Brassica juncea l. in the forest-steppe of Ukraine. Proceedings of the 3rd International Conference on Agriculture, Indonesia, (ICA 2022) Atlantis press. (Part of Springer Nature) Series:Advances in Biological Sciences Research. 2023. P. 11–19. Scopus

DOI: https://doi.org/10.2991/978-94-6463-168-5_3

4. Elina Zakharchenko, Oksana Datsko, Yurii Mishchenko¹, Andrii Melnyk, Liudmyla Kriuchko, Serhii Rieznik, Anna Hotvianska Efficiency of biofertilizers when growing corn for grain Modern Phytomorphology. 2023. Volume: 17. P. 50–56. Scopus

5. Yan, T., Kremenetska, Y., He, S., Melnyk, T. & Melnyk, A. (2023). The relationship between soil physicochemical properties and vegetation biodiversity in newly formed reservoir buffer strips. Applied ecology and environmental research. 21(4): 3153-3175. DOI: http://dx.doi.org/10.15666/aer/2104_31533175 e-ISSN: 2071-1050.

6. Klymenko, H; Artemenko, D; Klymenko, I ; Kovalenko, N; Melnyk, A; Butenko, S; Horbas, S ; Tovstukha, O. Criteria for evaluating the state of rare plant species populations. Modern Phytomorphology, Volume: 17 Page numbers: 98-106. Year: 2023. DOI: 10.5281/zenodo.200121

7. Victoria Papchenko, Galyna Stepankova, Olena Karatieva, Aryna Balandina, Denis Shapovalenko, Andrii Kariuk, Olha Bakumenko, Andrii Melnyk, Liudmyla Kriuchko, Serhii Rieznik. Determining the effect of raw materials moisture and lipid content on the technological properties of the extruded protein-fat system // Technology and Equipment of Food Production: food technology. № 4 (124). 2023. P. 37–46.

8. Andrii Melnyk, Anhelina Dudka, Yuriy Romanko, Li Ruijie, Yevhen Sorokolit, Tetiana Melnyk, Vika Chervona. Varietal features of the formation of quality indicators and amino acid composition of soybean grain under the conditions of the left-bank forest-steppe of Ukraine. // Journal of Ecological Engineering 2025, 26 (5), 366–376. <https://doi.org/10.12912/27197050/203372>

9. Melnyk A. V., Shabbir G., Butenko S. O., Kostyna T. P.





Economic and energy efficiency of growing oilseed crops of the Brassica family depending on the use of fertilizers in the conditions of the northeastern Forest-Steppe of Ukraine // Bulletin of the Sumy National Agrarian University. Series "Agronomy and biology". 2024. No. 3 (57). P. 99 –107.

DOI <https://doi.org/10.32782/agrobio.2024.3.13>

10. Ruijie, L., Sorokolit, Ye., Melnyk, A., Dudka, A., & Butenko, S. (2024). Effect of a growth regulator on the salt resistance of soybean Zheng 196 at the seeding stage. *Plant and Soil Science*, 15(4), 40-49.
<https://doi.org/10.31548/plant4.2024.40>

18. Andrii Melnyk, Anhelina Dudka, Yuriy Romanko, Li Ruijie, Yevhen Sorokolit, Tetiana Melnyk, Vika Chervona. Varietal features of the formation of quality indicators and amino acid composition of soybean grain under the conditions of the leftbank forest-steppe of Ukraine. // *Journal of Ecological Engineering* 2025, 26 (5), 366–376.
<https://doi.org/10.12912/27197050/203372>

Other significant scientific achievements

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

1. FORESTRY, HORTICULTURAL AND AGRICULTURE MANAGEMENT: INTERNATIONAL AND NATIONAL STRATEGIC GUIDELINES OF SUSTAINABLE SPATIAL DEVELOPMENT / scientific ed. T.I. Melnyk. Warsaw: RS Global Sp. z O.O., 2024. 246 p. DOI: 10.31435/rsglobal/059.
https://monographs.rsglobal.pl/index.php/rsgl/catalog/view/67/68/6_06-1

2. SPATIAL RELATIONSHIPS AND MANAGEMENT SYSTEMS IN FOREST, PARK, AND AGRICULTURAL COMPLEXES IN THE CONTEXT OF MODERN CHALLENGES AND SUSTAINABLE DEVELOPMENT. / scientific ed. T.I. Melnyk. Warsaw: RS Global Sp. z O.O., 2025. 234 p. DOI: 10.31435/rsglobal/061.
https://monographs.rsglobal.pl/index.php/rsgl/catalog/view/69/72/7_18-1

3. AGRONOMY: Textbook. Series "To help the PHD student". Edited by A.V. Melnyk, Y.I. Danko Odessa, 2025, Oldi, ISBN 978-617-8559-53-3, 523 p.

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. Andrii Melnyk, Peipei Jia, Tetiana Melnyk, Andrii Butenko, Volodymyr Kolosok, Sergey Butenko. The influence of plant growth regulators on morphological indexes and performance of Brassica juncea l. in the forest-steppe of Ukraine. Proceedings of the 3rd International Conference on Agriculture, Indonesia, (ICA 2022) Atlantis press. (Part of Springer Nature) Series:Advances in Biological Sciences Research. 2023. P. 11–19. Scopus





DOI: https://doi.org/10.2991/978-94-6463-168-5_3

2. MELNYK A.V., LI RUIJIE, BRUNYOV M.I. GLYCINE BETAINE FOR PLANT STRESS RESISTANCE / Міжнародна науково-практичної конференція «Гончарівські читання», присвяченої 94 річчю з дня народження доктора сільськогосподарських наук, професора Гончарова Миколи Дем'яновича, 25 травня 2023 р. Суми: Сумський національний аграрний університет. С. 162–164.

3. Melnyk A.V., Ruijie L., Melnyk A. A., Haohan S. EXPRESS DIAGNOSTICS FOR STRESS DETERMINATION IN PLANTS Тенденції та виклики сучасної аграрної науки: теорія і практика. Присвячена 125-річчю кафедри рослинництва НУБІП України матеріали V міжнародної науково-практичної онлайн конференції (м. Київ, 25-27 жовтня 2023 р.)/НУБІП України, 2023. С. 30-32.

Scientific and organisational activities

Scientific editing (compilation) of scientific publications

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

Member of specialized scientific councils D 26.004.01 at the National University of Bioresources and Environmental Management of the Cabinet of Ministers of Ukraine and D 55.859.03 at Sumy National University of Science and Techno

Member of the editorial board of the scientific journal "Bulletin of Sumy National Agrarian University. Series "Agronomy and Biolog

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)

1. AGRONOMY: Textbook. Series "To help the PhD student". Edited by A.V. Melnyk, Y.I. Danko Odessa, 2025, Oldi, ISBN 978-617-8559-53-3, 523 p.

2. Syllabus (Course Program) of the Discipline "Methodology of Scientific Research" for PhD students in specialty 201 "Agronomy", Sumy National Agrarian University, 2024. – 12 p.

3. Syllabus (Course Program) of the Discipline "Stability and Sustainability of Agrocenoses" for PhD students in specialty 201 "Agronomy", Sumy National Agrarian University, 2024. – 12 p.

4. Syllabus (Course Program) of the Discipline "Modern Global Methods of Conducting Experiments" for PhD students in specialty 201 "Agronomy", Sumy National Agrarian University, 2025. – 11 p.





<p>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></p>	<ol style="list-style-type: none">1. Melnyk A. V., Dudka A. A. Methodology of Scientific Research. Methodical guidelines for practical classes for PhD students, specialty H1 Agronomy. – Sumy, 2025. – 25 p.2. Melnyk A. V., Melnyk T. I. Stability and Sustainability of Agroecosystems. Methodical guidelines for practical classes for PhD students, specialty H1 Agronomy. – Sumy, 2025. – 21 p.
<p>Supervision of scientific work (scientific supervision or consulting of dissertation research that has been successfully defended) <i>(no more than 5 positions in the last 10 years)</i></p>	<p>Dmytrivska A.O., Govorun S. O., Romanko Yu. O., Akuaku D., Shahid A., Shabbir G., Romanko A. Yu., Dzia PeiPei, Butenko S. O., Dudka A. A., Brunev M. I.</p>
<p>Expert activity</p>	
<p>Membership in specialised academic councils for the defence of dissertations <i>(no more than 5 positions in the last 10 years)</i></p>	<p>In specialised academic councils Yatsenko V. M. (No. 1384 dated 12/16/2021); U Lyulyu (No. 504-k dated 12/23/2022); Fu Yuanzhi (No. 1-k dated 01/04/2023); Kolosok I.O. (No. 512-k dated 09/27/2023); Lavrys V. Y. (No. 36/OD dated 10/06/2023); Litoshko S. V. (No. 01-03/20 dated 10/30/2023); Tao Ye. (No. 615-k dated 11/06/2023); Chen Qiaon (No. 709-k dated 12/26/2023); Kovalenko M. (No. 2205/os dated 01.07.2024).</p>
<p>Scientific and expert activities for public authorities (scientific and expert opinions, comments, conclusions, etc. made at the request or order of public authorities and self-government bodies, state structures, institutions, etc.) <i>(no more than 5 items for the last 10 years)</i></p>	<ol style="list-style-type: none">1. Work in the sector, Scientific and Methodological Commission (subcommission), and the Scientific and Methodological Council of the Ministry of Education and Science of Ukraine.2. Deputy Head of the Expert Group for evaluating the effectiveness of higher education institutions in terms of conducting scientific (scientific and technical) activities in the scientific field “Agricultural Sciences and Veterinary Medicine” (Order of the Ministry of Education and Science of Ukraine No. 1111, September 7, 2020).3. Member of the Expert Council of the Ministry of Education and Science of Ukraine on the certification of scientific personnel in the agro-industrial complex and food sector (Order of the Ministry of Education and Science of Ukraine No. 1092, December 2, 2022).4. Head of the Specialized Scientific and Technical Council of the Ministry of Education and Science of Ukraine for the selection of scientific and technical projects in the field





“Technical and Technological Modernization and Development of the Agro-Industrial Complex, Organic Production and Food Security” (Order of the Ministry of Education and Science of Ukraine No. 1004, July 15, 2024).

5. Expert evaluation of five scientific projects of the “Horizon 2020” programme.

Honours and awards

Awards or distinctions for scientific achievements (from institutions, departments, authorities and local governments, etc.)

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

1. Laureate of the Prize of the Cabinet of Ministers of Ukraine “For Contribution of Youth to the Development of the State” (No. 1009, June 23, 2000).

2. Awarded Certificates of Honor of the Department of Education and Science of the Sumy Regional State Administration (2005, 2013).

3. Awarded Letters of Appreciation from the Sumy Regional Council (2007) and from the Rector of Sumy National Agrarian University (2015, 2017).

4. Awarded a Letter of Appreciation from the Minister of Education and Science of Ukraine (2016).

5. Recipient of the distinction “Best Researcher of Sumy National Agrarian University” (2018).

6. Awarded the honorary badge “Excellence in Education of Ukraine” (Order of the Minister of Education and Science of Ukraine, May 22, 2018).

7. Awarded a Letter of Appreciation from Bayer LLC for fruitful cooperation in the field of scientific research (2019).

8. Awarded the Order “For Scientific and Educational Achievements” (2021).

9. Awarded a Certificate of Honor of the National Academy of Agrarian Sciences of Ukraine (2023).

10. Awarded a Commendation Letter from the Minister of Agrarian Policy and Food of Ukraine (2025).

Improving scientific qualifications

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)

- Universities of VOKU (Austria) and Nürtingen (Germany), Henan Institute of Science and Technology (China, 2019),
- Opole, Poland (2020),
- National University of Life and Environmental Sciences of Ukraine, Kyiv (2022, 2024),
- Academic exchange Erasmus + (KA 1072020) for the period 1.06.2023 to 28.07.2023
- University of Applied Sciences Weihenstephan-Triesdorf (Germany, 2023)





Membership in independent scientific organisations (non-institutional professional academic associations, societies, unions, unions of researchers, except for trade unions)

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

Academician of the Academy of Sciences of the Higher School of Ukraine, Department of Agrarian Sciences (Certificate No. 216, May 13, 2015).

Knowledge of foreign languages

English – Level B2
Certificate No: 00109176.

