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Researcher ID Web of Science : HSG-1063-2023

Disciplines teaching

Provides such courses disciplines for students OS "Bachelor" specialties
"Agronomy" and "Gardening, fruit and vegetable growing and viticulture":

- Foundations biotechnology;

for students specialties "Biotechnology" and bioengineering"

OS "Master":

- Biotechnology plants and bioengineering

Education

In 1986, she graduated from the Ukrainian Agricultural Academy with a degree in Forestry Engineering.

In 2017, the academic degree of Doctor of Agricultural Sciences was awarded for the dissertation titled "Physiological and Biotechnological Foundations for Improving the Efficiency of Breeding Sugar Beet (*Beta vulgaris* L.) and Rapeseed (*Brassica napus* L.)."

Scientific interests

Scientific interests are related to plant biotechnology (features of microclonal propagation and deposition, non-traditional methods of breeding agricultural and essential oil plants), plant physiology and biochemistry, and molecular biology.

Patents, copyright certificates on varieties plants

1. Kliachenko O.L., Sytnik I.D., Antonik I.P., Vyshnevskyi P.I., Nahrebetskyi M.I. Author's Certificate No. 05120 for the rapeseed variety Aira. Application No. 03016003. Protection of Rights to Varieties. Official Bulletin. 2004. No. 4. P. 96.
2. Kliachenko O.L., Sytnik I.D., Antonik I.P., Vyshnevskyi P.I., Nahrebetskyi M.I. Author's Certificate No. 06113 for the rapeseed variety Antariia. Application No. 03016002. Protection of Rights to Varieties. Official Bulletin. 2005. No. 4. P. 71.
3. Kliachenko O.L., Kliachenko V.I. Copyright registration certificate for the work by Kliachenko O.L. and Kliachenko V.I.: Monogerm Sugar Beet: From Seed to Root Crop. Anatomy. Morphology. Application dated Oct. 22, 2015. Copyright registration certificate No. 63043 dated Dec. 21, 2015.
4. Kliachenko O.L., Ivanova T.V., Melnychuk M.D., Tsyz O.M., Otkydach I.S., Avdiievskyi A.V. Nutrient medium for fungi of the genus *Pleurotus*. Applicant and patent holder: NULES of Ukraine. No. 98969. Application dated 12.12.2014. Published 12.05.2015. Official Bulletin No. 9

Internship

1. Slovak university of agriculture in Nitra Faculty of agrobiolgy and food resource Certificate Research study theme "Reproduction of *Miscanthus* spp. for Agrobiodiversity", 2018.
2. Faculty of Agriculture of the University of East Sarajevo "Reproduction of *Brassica* spp. for Agrobiodiversity", 2019.
3. Confirmation of articpation and collaboration by the development of online study course "Applied Plant Growing", University of Applied Sciences Weihenstephan-Triesdorf, Germany, 2020.

4. “Innovative Plant Biotechnology” organized by the University of Applied Sciences Weißenstephan-Triesdorf at the Faculty of Agriculture, Food and Nutrition, 2021.

5. Scientific Project Proposal Writing Course provided by the Foundation Knowledge Educational for Agribusiness in Warsaw, Poland, 2024.

Expert, project, and public activities

Number of scientific publications – 370.

According to the Scopus bibliometric database: h-index – 2, number of publications – 12, number of citations – 15.

According to the Web of Science bibliometric database: h-index – 1, number of publications – 9, number of citations – 7.

Editorial board member of the "American Journal of Plant Biology" (since 2018).

Member of the disciplinary competition committee for the second round of the All-Ukrainian Student Research Paper Competition in Specialty 162 "Biotechnology and Bioengineering" (2018–2025).

Member of the Ministry of Education and Science (MES) Scientific and Methodological Commission on Higher Education, Subcommittee 162 "Biotechnology and Bioengineering" (2015–2019).

Developer of higher education standards for Specialty 162 "Biotechnology and Bioengineering" (Field of Knowledge 16 "Chemical and Bioengineering") for Bachelor's and Master's degree programs.

Member of Specialized Academic Council D 26.004.10.

Member of the Scientific Council and the Academic Council of the Faculty of Plant Protection, Biotechnology and Ecology at the National University of Life and Environmental Sciences of Ukraine (NULES of Ukraine).

Permanent member of the Scientific Committee of the International Scientific Agriculture Symposium (AGROSYM) and the Organizing Committee of the international conference GREEN ROOM SESSIONS (International GEA – Geo Eco-Eco Agro). Member of the editorial board of the scientific journal "Biological Systems: Theory and Innovation".

Awards and Distinctions

1998–2000: Recipient of the Cabinet of Ministers of Ukraine Scholarship.

2014 and 2024: Awarded the Certificate of Honor of NULES of Ukraine for services to the National University of Life and Environmental Sciences of Ukraine.

2023: Awarded a medal for outstanding contributions to the development of the National University of Life and Environmental Sciences of Ukraine.

2024: Awarded the St. Volodymyr Medal for personal contribution to the development of higher education and science in Ukraine.

Selected works

Articles:

1. Kliachenko O.L., Prysiazhnuk L. Evoluotion of genetic distances correlations among sugar beet genotypes (*Beta vulgaris* L.). *Agriculture and Forestry*, 2019. V.65 - Issue 1: 39-48 (Scopus, Q3)
2. Kliachenko O.L., Likhanov A. F. Biological activity of endometabolites from sugar beet (*Beta vulgaris* l.) pericarps. *Journal of Microbiology, Biotechnology and Food Sciences*. 2019. vol.8. N6. P.602-606 (Scopus, Q3)
3. Dubin A. Likhanov A. Subin A. Kluvadenko A. Effect of chitosan formulations of different biological origin on tobacco (*Nicotiana tabacum* L.) PR-genes expression *Journal of Microbiology, Biotechnology and Food Sciences*. 2020. vol.7. N6. P.1141-1144. (Scopus Q3)
4. Likhanov A., Kliachenko O., Subin O., Prysiazhniuk L., Melnychuk M. Influence of Quercetin-Ferrum Complex on the Biochemical Profile of Berry Crops *In Vitro Ecological Engineering and Environmental Technology*, 2023, 24(5).111–116 (Scopus, Q3).
5. Prysiazhniuk L., Honcharov Y., Melnyk S., Kliachenko O. The selection of maize parent lines within marker assisted selection (MAS) by crtRB1-3'TE marker for Steppe zone of Ukraine. *Agronomy Research*, 2023, 21(Special Issue 2), 551–559 (Scopus, Q2).
6. Kliachenko O., Prysiazhniuk L., Bokiyy O., Sypliva N., Melnyk S. Obtaining Temperature-Resistant Sugar Beet Lines (*Beta vulgaris* L.) *Ecological Engineering and Environmental Technology*, 2023, 24(1), 22–28 (Scopus, Q3).
7. A Likhanov, O Kliachenko, A Yunyk, S Kalenska. Identification of chlorogenic acid in cotyledonous leaves and husc of common sunflowers (*Heliantus annuus* L) *Plant and Soil Science*. 2022. 13(4). 22-30
8. Kliachenko O., Prysiazhniuk L. Features of chemical composition and technological characteristics of root of sugar beet genotypes *Agrofor International Journaj*, 2022. V.7. N 1. P. 115-123

9. Kliachenko O., Prysiachniuk L. Features of chemical composition and technological characteristics of root of sugar beet genotypes. *Agrofor International Journaj*, 2021. - V.6. - N 3. - P. 122-136
10. Prysiachniuk L., Starychenko V., Hryniv S., Shytikova Y., Leshsuk N., Melnyk S., Kliachenko O. The comparison analysis of software for mantel test between DNA markers and mophological traits of plant varieties. *Agrofor International Journal*, 2021. - V.6. - N 2. - P. 132-143.
11. Kliachenko O.L. Evaluation of breeding material and prediction of heterosis at early stages of ontogenesis in sugar beet (*Beta vulgaris* L.). *Biological Systems: Theory and Innovation*, 2021. – Vol. 12. – No. 1. – P. 36–44.
12. Kliachenko O.L., Shliakhtun I.S. Physiological and biotechnological aspects of drought tolerance in narrow-leaved lavender (*Lavandula angustifolia* Mill.). *Biological Systems: Theory and Innovation*, 2021. – Vol. 12. – No. 3. – P. 36–44.

Textbooks and Study Guides

1. Melnychuk M.D., Novak T.V., Kliachenko O.L., Kolomiiets Yu.V., et al. *Plant Biotechnology: Practical Course (2nd Edition)*. Kyiv: Agrar Media Group LLC, 2012. – 220 p.
2. Melnychuk M.D., Kliachenko O.L., Antipov I.O., Kolomiiets Yu.V. *Biotechnology. Part 1: Textbook*. Kyiv: Agrar Media Group LLC, 2013. – 288 p.
3. Melnychuk M.D., Kliachenko O.L., Antipov I.O., Kolomiiets Yu.V. *Biotechnology. Part 2: Textbook*. Kyiv: Agrar Media Group LLC, 2013. – 290 p.
4. Melnychuk M.D., Kliachenko O.L., Antipov I.O., Kolomiiets Yu.V. *Biotechnology: Practical Course*. Kyiv: Agrar Media Group LLC, 2013. – 120 p.
5. Melnychuk M.D., Kliachenko O.L. *Biotechnology in the Agricultural Sphere: Study Guide*. Vinnytsia: Nilan-LTD LLC, 2014. – 266 p.
6. Melnychuk M.D., Kliachenko O.L., Borodai V.V. *Ecology of Biological Systems (Microbial Ecology): Study Guide*. Vinnytsia. Nilan-LTD LLC. – 2014. – 246 p.
7. Melnychuk M.D., Kliachenko O.L., Boroday V.V., Kolomiiets Yu.V. *Industrial Biotechnology. Study Guide*. Vinnytsia: FOP Korzun D.Yu., 2014. – 252 p.
8. Melnychuk M.D., Kliachenko O.L., Kolomiiets Yu.V. *Bioengineering*. Vinnytsia: Nilan-LTD LLC. – 2014. – 456 p.
9. Kliachenko O.L., Melnychuk M.D., Kolomiiets Yu.V., Antipov I.O. *Biotechnology. Part 1. Agricultural Biotechnology. Textbook*. Kyiv: CP "COMPRINT". – 2015. – 491 p.
10. Melnychuk M.D., Kliachenko O., Boroday V.V. *Bioindustrial technology*. Vinnytsia: Nilan-LTD. – 2015. – 256 p.
11. Kliachenko O.L., Melnychuk M.D., Likhanov A.F., Subin O.V. *Fundamentals of Biodiversity. Theory and Practice. Study Guide*. Vinnytsia: Nilan-LTD LLC. – 2015. – 127 p.

12. Kliachenko O.L., Melnychuk M.D., Ivanova T.V. Environmental Biotechnologies. Theory and Practice. Study Guide. Vinnytsia: Nilan Ltd. – 2015. – 253 p.
13. Kliachenko O.L., Kolomiets Yu.V., Borodai V.V. Ukrainian-English Terminological Dictionary of General Biotechnology. Explanatory Dictionary. Vinnytsia: Nilan Ltd. – 2016. – 761 p.
14. Kliachenko O.L., Kolomiets Yu.V., Borodai V.V., Subin O.V. Biotechnology and Bioengineering. Textbook. Vinnytsia: Nilan Ltd. – 2017. – 650 p.
15. Kliachenko O.L., Pylypenko L.A., Ivanova T.V. Biotechnology: Introduction to the Profession. Study Guide. Kyiv: Ahrarna Osvita. – 2018. – 392 p.
16. Kliachenko O.L., Kolomiets Yu.V., Yanse L.A., Postoienko V.O. Environmental Biotechnology and Bioengineering. Textbook. Kyiv: Komprynt. – 2018. – 573 p.
17. Borodai V.V., Kliachenko O.L. Regulatory Framework for Biotechnological Production. Study Guide. Kyiv: Komprynt. – 2018. – 255 p.
18. Kliachenko O.L., Kolomiets Yu.V., Pylypenko L.A., Postoienko V.A. Environmental Biotechnology and Bioengineering. Textbook. 2nd edition. Kyiv: Komprynt, 2020. – 506 p.
19. Kliachenko O.L., Kolomiets Yu.V., Yanse L.A., Postoienko V.A. Environmental Biotechnology and Bioengineering. Part 1: Bioengineering. Kyiv: Ahrarna Nauka, 2020. – 134 p.
20. Kliachenko O.L., Kolomiets Yu.V., Yanse L.A., Postoienko V.A. Environmental Biotechnology and Bioengineering. Part 2: Cellular Technologies. Kyiv: Ahrarna Nauka, 2021. – 272 p.
21. Kliachenko O.L., Kolomiets Yu.V., Yanse L.A., Postoienko V.A. Environmental Biotechnology and Bioengineering. Part 3: Industrial and Environmental Biotechnology. Kyiv: Ahrarna Nauka, 2021. – 340 p.
22. Kolomiets Y., Kliachenko O. Biotechnology. Kyiv: Yamchinskiy O.V. NPE, 2021. – 260 p.
23. Kolomiyets Y., Kliachenko O., Subin A. Biotechnology. Textbook. Kyiv: Komprynt, 2022. – 422 p.
24. Kliachenko O.L., Lisovyy M.M., Kvasko O.Yu. Fundamentals of Biodiversity. Textbook. Kyiv, Komprint, 2022. – 300 p.
25. Kliachenko O.L., Lisovyy M.M., Kvasko O.Yu. Fundamentals of Biodiversity: Textbook, Komprint – Kyiv, 2023. – 315 p.
26. Kliachenko O., Kolomiets Yu., Subin O. Plant Biotechnology. Study Guide. Kyiv: NUBiP of Ukraine Publishing House, 2023. – 360 p.