

CURRICULUM VITAE
Khablak Serhii Hryhorovych
Doctor of Biological Sciences; Docent

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I. Personal data.

Date and place of birth: 21.11.1981, Kirovsk, Ukraine.

II. Education, Scientific degrees and titles.

- Breeding and Genetics Institute - National Center of Seed Science and Varietal Studies of the Ukrainian Academy of Sciences - Candidate of Biological Sciences.

III. Employment.

Place of work:

State University "Institute of Food Biotechnology and Genomics of the National Academy of Sciences of Ukraine", Kyiv, senior researcher since July 1, 2022 - working until now.

Previous positions:

- 2017 - 2019 - deputy head of the research center of the agricultural holding "KERNEL" for methodology and analytics (field agronomist);
- 2019-2021 - head of the department of technology implementation and monitoring in crop production of the AGR group agricultural holding.

IV. Participation in domestic projects.

- Development of ecological and biological agrotechnology for the production of products on eroded chernozems using promising organic-mineral fertilizers and their mixtures based on biohumus" (state registration number 0110U006213).
- Development of genetic and biotechnological methods in the selection of agricultural crops, optimization of the use of natural and resource potential of agro-ecosystems of the Right Bank Forest-Steppe of Ukraine" (state registration number 0116U003207).

V. Personal profiles in databases.

<https://scholar.google.com.ua/citations?hl=uk&user=IHcDiLgAAAAJ>

https://superagronom.com/search?search_text=%D0%A5%D0%B0%D0%B1%D0%BB%D0%B0%D0%BA

VII. Professional designations and memberships.

Member of the Ukrainian Society of Geneticists and Breeders.

Participation in institute and academic organizations.

Member of the Scientific Council of the Institute of Food Biotechnology and Genomics of the National Academy of Sciences of Ukraine from 2022.

VIII. List of the most important publications:

1. Khablak S. G., Abdullaeva Ya. A. Modification variability of root system development in *Arabidopsis thaliana*. Ecosystems, their optimization and protection. 2011. Issue 4 (23). P. 51–57.
2. Khablak S. G., Abdullayeva Y. A. Morphogenesis of the root system of the wild type Landsberg race in the ontogeny of *Arabidopsis thaliana* (L.) Heynh. Scientific bulletin of Lesya Ukrainka Volyn National University. Biological sciences series. 2011. No. 9. P. 37–42.

3. Khablak S. G., Abdullaeva Ya. A. Structure of the root system in the wooden leg-1 (wol-1) mutant line of *Arabidopsis thaliana* (L.) Heynh. Problems of ecology and nature protection of the man-made region. 2011. No. 1 (11). P. 122–127.
4. Khablak S. G., Abdullaeva Ya. A. Influence of auxin-induced genes on root branching in the root system of *Arabidopsis thaliana* (L.) Heynh. Bulletin of Kharkiv National Agrarian University. Series Biology. 2012. Issue 1(25). P. 57–63.
5. Khablak S. G., Abdullaeva Ya. A. The effect of mutations in the ethylene signaling and metabolism genes CTR1, ERS1, EIN2 and ETO1 on root branching in the root system of *Arabidopsis thaliana* (L.) Heynh. Herald of the Zaporizhzhya National University. Biological sciences series. 2012. No. 1. P. 15–23.
6. Khablak S. G., Abdullaeva Y. A. Ontomorphogenesis of the root system in Solumbia race *Arabidopsis thaliana* (L.) Heynh. Scientific Bulletin of Luhansk National Agrarian University. Biological sciences series. 2012. No. 38. P. 69–72.
7. Khablak S. G., Abdullaeva Ya. A. Peculiarities of the structure and development of root systems in ahk2-5 and ahk3-7 mutant plants of *Arabidopsis thaliana* (L.) Heynh. Bulletin of Odessa National University. Series Biology. 2012. Vol. 17, p. 1–2. P. 58–68.
8. Khablak S. G., Abdullaeva Ya. A. Inheritance of root system traits in *Arabidopsis thaliana* (L.) Heynh. with the interaction of SHR1, GPA1 and COB1 genes. Bulletin of Kharkiv National Agrarian University. Series Biology. 2012. Issue 3 (27). P. 91–97.
9. Khablak S. G., Abdullaeva Y. A. Growth dynamics of root systems in plants of Columbia and Landsberg ecotypes *Arabidopsis thaliana* (L.) Heynh. in ontogenesis. Scientific Bulletin of the Luhansk National Agrarian University. Biological sciences series. 2012. No. 46. P. 64–70.
10. Khablak S. G., Checheneva T. N., Abdullaeva Ya. A. Inheritance of the shape of root hairs in *Arabidopsis thaliana* (L.) Heynh. with the interaction of RHD3, RHD4, CEN1 and SAR1 genes. Herald of the Zaporizhzhya National University. Biological sciences series. 2012. No. 3. P. 13–22.
11. Khablak S. G., Checheneva T. N., Abdullaeva Ya. A. Genetic model of root system development in *Arabidopsis thaliana* (L.) Heynh. Problems of ecology and nature protection of the man-made region. 2012. No. 1 (12). P. 123–130.
12. Khablak S. G., Abdullaeva Ya. A. Root modification in the root system of *Arabidopsis thaliana* (L.) Heynh. under the influence of COB1, LIT1 and SAB1 gene mutations. Bulletin of Kyiv National University named after Taras Shevchenko. Biology series. 2013. No. 63. P. 22–24.
13. Khablak S. G., Abdullaeva Y. A. Structure of root hairs in *Arabidopsis thaliana* (L.) Heynh mutant plants. Bulletin of Kharkiv National Agrarian University. Series Biology. 2013. Issue 1 (28). P. 78–84.
14. Khablak S. G., Abdullaeva Ya. A. The effect of mutations in the auxin signaling genes TIR1, GPA1, AGP1 and AXR2 on root branching in the root system of *Arabidopsis thaliana* (L.) Heynh. Herald of the Zaporizhzhya National University. Biological sciences series. 2013. No. 2. P. 5–9.
15. Khablak S. G., Abdullaeva Ya. A. Theory of enzymatic growth of cells by stretching. Ecosystems, their optimization and protection. 2013. Issue 9. P. 185–196.
16. Khablak S. G., Pariy F. N. Interrelationship of the signaling system of the regulation of plant development and the interaction of genes during the inheritance of root system traits in *Arabidopsis thaliana* (L.) Heynh. Bulletin of Kharkiv National Agrarian University. Series Biology. 2013. Issue 3 (30). P. 83–89.
17. Khablak S. G. Genetic and hormonal regulation of root hair development in *Arabidopsis thaliana* (L.) Heynh. Visn. Ukraine association of geneticists and breeders. 2013. Vol. 11, No. 1. P. 137–143.
18. Khablak S. G. Joint influence of CEN1 and SAR1 genes on root hair formation in *Arabidopsis thaliana* (L.) Heynh. Scientific Bulletin of the Luhansk National Agrarian University. Biological sciences series. 2013. No. 50. P. 73–77.

19. Khablak S. G. Epistatic interaction of genes GPA1 and SLR1, CTR1 and ALF3 in the inheritance of traits of the root system of Arabidopsis. Factors of experimental evolution of organisms. 2016. Vol. 18. P. 159–161.
20. Khablak S. G. Peculiarities of the morphology of the root system of Arabidopsis thaliana (L.) Heynh. and mutant lines that affect the structure of roots. Bulletin of Zaporizhzhya National University. Biological sciences series. 2017. No. 1. P. 18–27.
21. Khablak S. G. Joint influence of ETR1 and ETR2 genes on root branching of Arabidopsis thaliana (L.) Heynh. Factors of experimental evolution of organisms. 2017. Vol. 21. P. 216–220.
22. Khablak S. G. Peculiarities of the inheritance of traits of the root system of Arabidopsis thaliana (L.) Heynh. with the interaction of CTR1 and ALF3, NPH4 and IAR2 genes. Cytology and genetics. 2017. Vol. 51, No. 1. P. 41–50.
23. Khablak S. G. Polymorphism of root system traits of Arabidopsis thaliana (L.) Heynh. on different power backgrounds. Collection of scientific works of the SGI - NCNS. Vol. 29(69). 2017. P. 159–161.
24. Khablak S. G. Influence of the SHR1 and SCR1 genes, which regulate the activity of the root apical meristem, on the structure of the root system in Arabidopsis thaliana (L.) Heynh. Bulletin of the Udmurt University. Series Biology. Earth sciences. 2013. Issue 1. P. 46–51.
25. Khablak S. G. The influence of mutations in the genes of light signal perception and transmission on the structure of root hairs in Arabidopsis thaliana (L.) Heynh. Bulletin of Tomsk State University. Biological sciences series. 2013. No. 3 (23). P. 127–136.
26. Khablak S. G. Genotypic specificity of the sensitivity of mutant lines affecting the structure of the root system to nutrients in Arabidopsis thaliana (L.) Heynh. Bulletin of the Krasnoyarsk State Agrarian University. Series Biology. 2013. No. 10. P. 96–101.
27. Khablak S. G. Features of root branching in ahk2-5, ahk3-7, ers1-2, ein2-1, ctr1-1 and eto1-1 mutant plants of Arabidopsis thaliana (L.) Heynh. Bulletin of the Udmurt University. Series Biology. Earth sciences. 2013. Issue 4. P. 66–72.
28. Khablak S. G. Joint influence of SHR1 and GPA1 genes on the structure of the root system in Arabidopsis thaliana (L.) Heynh. with different viability of plants. Herald of St. Petersburg University. Series Biology. 2014. Issue 1. P. 82–86.
29. Khablak S. G. Root development of Arabidopsis thaliana (L.) Heynh. species. British Journal of Science, Education and Culture. 2014. Vol. 1 (5). R. 94–100.
30. Khablak S. Role of a signaling system in gene interaction in inheritance of root system characteristics of Arabidopsis thaliana (L.) Heynh. Open Journal of Genetics. 2016. Vol. 6. R. 51–60.
31. Khablak S. G. Polymeric interaction of SHY2 and MSG1, NPH4 and IAR2 genes in the inheritance of traits of the root system of Arabidopsis thaliana (L.) Heynh. Vavilovsky Journal of Genetics and Selection. 2017. Vol. 21. No. 2. P. 227–233.
32. Khablak S, Riabovol I. Heterosis at Interaction in Arabidopsis thaliana (L.) Heynh Genes ETR1 and ETR2. Biochem Ind J. 2017. Vol. 11(4). R. 1–8.
33. Khablak S. G. Zarazikha (Orobanche cumana Wallr.) on sunflower fields in the conditions of the eastern part of the Northern Steppe of Ukraine / S. G. Khablak, Ya. A. Abdullaeva, A. I. Denisenko // Bulletin of the Sumy National Agrarian University. – 2013. – Issue 11 (26). – pp. 25–27.
34. Khablak, S. G. Resistance to infection (Orobanche cumana Wallr.) of sunflower hybrids / S. G. Khablak, A. I. Denysenko, Y. A. Abdullaeva, N. V. Reshetnyak // Scientific Bulletin of the Luhansk National Agrarian University. – 2013. – No. 54. – P. 74–78.
35. Khablak S. G. Racial composition of wolfberry (Orobanche cumana Wallr.) in sunflower crops in the conditions of the northern steppe of Ukraine / S. G. Khablak, Ya. A. Abdullaeva // Herald of Agrarian Science of the Black Sea Region. – 2013. – Issue 3 (73). – pp. 116–121.
36. Abdullaeva Ya. A. The role of root isolated hybrids of corn in the germination of seeds of sunflower disease (Orobanche cumana Wallr.) / Ya. A. Abdullaeva, S. G. Khablak, A. I.

Denysenko // Scientific Bulletin of the Luhansk National Agrarian University. – 2014. – No. 57. – P. 7–9.

37. Abdullaeva Ya. A. The influence of root isolated hybrids of corn on the germination of seeds of the contagion (*Orobanche cumana* Wallr.) / Ya. A. Abdullaeva, S. G. Khablak // Bulletin of the Altai State Agrarian University. – 2014. – No. 1 (111). - pp. 42–47.

Monographs and chapters in books

1. Genetic and hormonal regulation of root system development in *Arabidopsis thaliana* (L.) Heynh. : monograph / S. G. Khablak. Luhansk: LNAU, 2013. 355 p.
2. Sunflower infection at the beginning of the 21st century: morphology, development, control measures and new strategies for protection against the parasite: monograph / S. G. Khablak, Y. A. Abdullaeva. Kyiv, 2019. 142 p.