

CURRICULUM VITAE



SVITLANA KALENSKA

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Positions

Head of Plant Science Department of National University of Life and Enviromental Sciences of Ukraine

- Head of Scientific-Methodical Commissions in Agronomy of Ministry of Education and Science of Ukraine
- Expert of the Agronomy and Forestry Council of State Commission for Academic
- Expert of National Education Quality Assurance (Ukraine)

Education

1982 – graduated from the Ukrainian agricultural academy, specialty “Agricultural chemistry and soil sciences”.

1988 – 1991 – PhD , 1991 – degree of the Candidate of Agricultural sciences, plant science

1998 – 2001 – Doctorate studies , degree of the Doctor of Agricultural sciences, plant science

Employment

1991 – 2001 – Institute of Agriculture of NAASU, positions: senior research worker; major research worker. Scientific research in the field of plant production of cereal crops.

2002 – until present - National Agricultural University of Ukraine (now: National University of Life and Environmental Sciences of Ukraine). Positions: Head of the Plant Production Department, professor of the Plant Production Department

Scientific and educational activities

Fields of scientific research are biology and technology of grows of crop, bioenergy, seeds science, nanotechnology.

Leader and executor of more than of 10 **national research projects** (Founded by research Council, Ministries and Business companies of Ukraine):

2003 – 2007 – Scientific substantiation and development of technologies for the production of high quality grain seeds in the Forest-Steppe of Ukraine and methods for diagnosing the sowing qualities of seed material"

2008 – 2010 – Scientific justification of formation and accumulation of valuable industrial components in plants of agricultural crops suitable for various directions of use.

2008 – 2012 – Development of the theory of increasing the resistance of plants in ontogenesis to biotic and abiotic factors based on the use of biogenic metal nanoparticles.

2012 – 2014 – Development science-based technologies of production, processing and storage of raw materials and standardized crop products.

2015 – 2016 – Scientific justification and practical realization of bioresource potential of field crops for reduction of influence of environmental stress factors.

2018 – 2020 – Management of the formation of field crop productivity under the multifunctional action of chelated nanofertilizers.

International activity

Project:

2009 – 2011 – Transnational Research Activity under the ERA ARD Net "Bioenergy – an opportunity or threat to the rural poor ", project "Reduction of impact of biofuel production to food stock ", Brussels, Kaunas, Warsaw, Kiev.

2012 – 2013 – Coordinator of international project (Ukraine-Lithuania) "Biofuel production from new renewable biomass resources" (funded by Research Council of Lithuania).

2008 – 2017 – Projects „Deutsch-Ukrainischer Weizenanbauvergleich“, Hochschule Anhalt, Germany and National University of Life and Environmental Sciences of Ukraine.

2018 – participant of the international competition " Technology of grow wheat winter ", 2017/2018, Germany, Anhalt. Winner - second place.

International Conference:

2002 – 5th International Triticale Symposium, Radzików, Poland, 30 June - 5 July,

2011 – 5-international scientific conference "Rural development 2011"

2012 – Intern. wissenschaftliche Konferenz "Nährstoff - und Wasser-versorgung der Pflazenbestände unter den Bedin-gungen der Klimaer-warmung " 18 - 19. Oktober 2012, Bernburg-Strenzfeld

2013 – International Scientific Conference „ Rural Development”, Kaunas.

2014 – International Conference "Rolnictwo, gospodarka, obszary wielskie – 10 lat w Unii Europelskiej", Warszawa.

2016 – 9th International Triticale Symposium, Hungary, Szeged 2016

2016 – Intern. Wissenschaftliche konferenc, 17–18 november, 2016, Anhalt – Bernburg – Strenzfeld

2018 –

2019 – 1st International Wheat Congress. 22-26 July 2019, Saskatoon, Canada.

Publications Prof. Kalenska has 43 monografiyas, 20 textbook, more than 300 articles in scientific and scientific-practical periodicals.

Under the guidance of Prof. Kalenska 36 PhD theses and 2 Doctoral thesis have been defended

MAIN ARTICLES FOR LAST 5 YEARS

1. Kalenska, S., Ryzhenko, A., Novytska, N., Garbar, L. Stolyarchuk, T., Kalenskyi, V., Shytiy, O. (2020). Morphological features of plants and yield of sunflower hybrids cultivated in the Northern part of the Forest-Steppe of Ukraine. *American journal of Plant Science* . V.11. №8.

2. Batsmanova L., Taran N., Konotop Y., Kalenska S., Novytska N. (2020). Use of a colloidal solution of metal and metal oxide-containing nanoparticles as fertilizer for increasing soybean productivity. *Journal of Central European Agriculture*. 21(2), 311-319. <https://doi.org/10.5513/JCEA01/21.2.2414>

3. Mazurenko B. , Kalenska S., Honchar L. and Novytska N. (2020). Grain yield response of facultative and winter triticale for late autumn sowing in different weather conditions. *Agronomy Research* 18(1), 183-193, <https://doi.org/10.15159/AR.20.008>

4. Honchar L., Mazurenko B., Sonko R., Kyrpa-Nesmiian T., Kovalenko R. and Kalenska S. (2020). Biochemical responses of 5 buckwheat (*Fagopirum esculentum* Moench.) cultivars to seed treatment by *Azospirillum brasilense* L. *Agronomy Research* Volume 18(S3) Special Issue III. 1680-1688. <http://hdl.handle.net/10492/5653> <https://doi.org/10.15159/AR.20.080> .

5. Eremenko O., Kalenska S., Pokoptseva L., Todorova L. (2019) The influence of AKM Growth Regulator on Photosynthetic Activity of Oilseed Flax Plants in the Conditions of Insufficient Humidification of the Southern Stepp of Ukraine / in *Modern Development Paths of agricultural production*. Editor V. Nadykto. Springer. 703 – 807. https://doi.org/10.1007/978-3-030-14918-5_78 https://link.springer.com/chapter/10.1007/978-3-030-14918-5_78

6. Novytska N. V., Kalenska S. M., Prysiazhniuk O. I., Melnychenko V. V. Activation of growth and development of sugar beet at microstages 00–09 with application of nanoscale fertilizer elements. *Plant Varieties Studying and Protection*, 2019, Vol. 15. №4. 403–409. <https://doi.org/10.21498/2518-1017.15.4.2019.189419>

7. Kalenska S., Yeremenko O., Novytska N., Yunyk A., Honchar L., Cherniy V., Stolyarchuk T., Kalenskyi V., Scherbakova O., Rigenko A. (2019). Enrichment of field crops biodiversity in conditions of climate changing. *Ukrainian Journal of Ecology* . № 9 (1). 19-24

8. Kozyrskyi V., Zablodskiy M., Savchenko V., Sinyavsky O., Yuldashev R., Kalenska S., Podlaski S. Z.. (2019). The Magnetic Treatment of Water Solutions and Seeds of Agricultural Crops. *Advanced Agro-Engineering Technologies for Rural Business Development*. 37p. <http://dx.doi.org/10.4018/978-1-5225-7573-3.ch010>
9. Kalenska S. M., Prysiazhniuk O. I., Korol L. V, Polovynchuk O. Yu. Comparative characteristics of growth and development scales of the pea (*Pisum sativum* L.) *Plant Varieties Studying and Protection*. Vol 15. № 2 (2019). 155 – 162. <https://doi.org/10.21498/2518-1017.15.2.2019.173563>
10. Kalenska S.M., Naidenko V.I. Economic evaluation of growing hybrids of grain sorghum in conditions of the Left-bank Forest-Steppe of Ukraine. 2019. №2 (78). <https://doi.org/10.31548/dopovidi2019.02.011>
11. Kalenska S., Novytska N. , Kalenskyi V. , Kovalenko R. , Yeremenko O., Tasheva J., Honchar L. Management by formation of winter wheat resistant agrocenoses in the Forrest-Steppe of Ukraine. 1st International Wheat Congress . Abstract proceeding poster presentations. 22-26 July 2019, Saskatoon, Canada. 018599.434
12. Kalenska S., Rozkov A., Antal T., Fedorchyk M., Maleonchuk O., Shutiy O., Garbar L. Efficiency of cultivation in Ukraine spring and winter forms of triticum aestivum and Triticum durum. 1st International Wheat Congress. Abstract proceeding poster presentations . 22-26 July 2019, Saskatoon, Canada. 018634. 436
13. Adaptation field crops in different zone of Ukraine. 21st Plant science^ challenges and innovations, for the 120 th anniversary of plant science department NULES of Ukraine, 25 – 26 september 2019.81 - 82 Kalenska S., Yeremenko O., Novytska N. , Kalenskiy V., Rigenko A.
14. Eremenko O. A., Kalitka V. V., Kalenska S. M., Malkina V. M. (2018). Assessment of ecological plasticity and stability of sunflower hybrids (*Helianthus annuus* L.) in Ukrainian Steppe, *Ukraine Journal of ecology* Vol 8, № 1. 289 - 296, [http://ojs.mdpu.org.ua/index.php/ biol/ article /view / _214](http://ojs.mdpu.org.ua/index.php/biol/article/view/_214) DOI: http://dx.doi.org/10.15421/2018_216
15. Yeremenko O., Kalensky S., Kalytka V. (2018). Safflower productivity depending on seed treatment by akm plant growth regulator and level of mineral nutrition. *Agriculture & Forestry*, Vol. 64 Issue 1: 65-72 <http://dx.doi.org/10.17707/AgricultForest.64.1.08>
16. Kalenska S., Prysiazhniuk O. I., Novytska N. V., Polovynchuk O. Yu. Comparative characteristics of the growth and development of grain crops. *Plant Varieties Studying and Protection*. 2018. T 4. № 4. 406 – 414. <https://doi.org/10.21498/2518-1017.14.4.2018.151906>
17. Shcherbakova E.N., Shcherbakov A.V., Andronov E.E., Gonchar L.N., Kalenskaya S.M., Chebotar V.K. (2017). Combined pre-seed treatment microbial inoculans with and Mo nanoparticles changes composition of root and rhizosphere microbiome structure of chickpea (*Cicer arietinum* L.) plants. *Symbiosis* V.73. I.1. 57-69 <http://dx.doi.org/10.1007/s13199-016-0472-1>

Springer Science +Business Media Dordrecht, Published on line 04 January 2017
link.springer.com / article/ 10.1007%2Fs13199-016-0472-1 .13 p

18. Sunflower productivity under the effect of AKM plant growth regulator in the conditions of the southern steppe of Ukraine / O.A. Ieremenko, V. Kalitka, S. Kalenska *Agricultural Science and Practice* Vol.4, No.1, 2017. – P.11-19. <https://doi.org/10.15407/agris>

19. Yeremenko O., Kalenska S., Kiurchev S., Rud A. , Chynchyk O, Semenov O. Sunflower (*Helianthus annuus* L.) productivity under the effect of plant growth regulator in the conditions of insufficient moisture /Chapter in book: *Scientific Achievements In Agricultural Engineering, Agronomy And Veterinary Medicine. Polish – Ukrainian cooperation. Scientific monograph TRAIKON Publishing House* ISBN 978-83-65180-19-3 2017, Vol. II, No. 1, 196-217

20. Honchar L., Kalenska S., Novitska N., Pylypenko V., Stolyarchuk T., Zawieja J., Scherbakova O.

(2017) Influence colloidal solutions of nanomolybdenum on the efficiency of symbiotic nitrogen fixation in legumes (pea, chickpea) *Agriculture & Forestry/ Poljoprivreda i Sumarstvo.*, Vol. 63 Issue 4, p. 83-89. ISSN: 0554-5579
<http://dx.doi.org/10.17707/AgricultForest.63.4.09>

21. Petunencko I.V., Kalenska S.M., P.Liebhard . Yield and quality characteristics of winter wheat varieties depending on different nitrogen nutrition levels in semiarid climate. *Plant and Soil sciences*. 2017. №235.
<http://journals.nubip.edu.ua/index.php/Agronomija/article/view/7810/7501>

22. Ieremenko O.A., Kalitka V.V., Kalenska S.M. Influence of growth regulator on plant growth, development and yield formation of sunflower hybrids (f1) under the conditions of southern Steppe zone of Ukraine. *Plant varieties studying*. Vol 13, №2.2017. <https://doi.org/10.21498/2518-1017.13.2.2017.105395>

23. Kalenskiy V., Novytcka N., Kalenska S, Pylypenko V., Cherniy V., Scherbakova E. Efficiency of symbiotic nitrogen fixation in legumes (soybean, peas, chickpeas), based on cropping technology on black soils. *Die rolle der bodenmikroorganismen bei der ernahrung von kulturpflanzen: Intern. Wissenschaftliche konferenc*, 17 – 18 .11. 2016, Anhalt – Bernburg – Strenzfeld. 12 – 13.

24. Kalenska S. Novytcka N. Kalenskiy V. Kovalenko R. Dgemesuk O. Influence of nitrogen fertilizer rates on nitrogen fixation capacity and yield of soybean. *Die rolle der bodenmikroorganismen bei der ernahrung von kulturpflanzen. Intern. Wissenschaftliche konferenc*, 17 – 18 .11. 2016, Anhalt – Bernburg – Strenzfeld. 13 – 14

25. Kalenska S., Honchar L, Cherniy V. Kalenskiy V. Kovalenko R. Features of productivity formation of winter triticale in its ontogeny. 9th International Triticale Symposium. Book of abstracts. Szeged, 2016. 66

26. Kalenska S, Tasheva U., Kalenskiy V, Novicka N, Gonchar L Productivity of triticale in Ukraine. 9th International Triticale Symposium, Book of abstracts. Szeged, 2016.89

27. Kalenska S., Tokar B. Influence fertilizers and retardant protection on dynamics chlorophyll content in leaves of spring barley (2015). *Електронний*

28. Makarenko N.A., Kalenska S.M., Rudnitska L.V. (2015). The biological efficacy and environmental safety of nanoagrochemicals . Plant and soil sciences . № 210.

<http://journals.nubip.edu.ua/index.php/Agronomija/article/view/5296>

29. Opportunities for the use of chufa sedge in biodiesel production / V. Makarevicienea, M. Gumbytea, A. Yunik, S. Kalenska, V. Kalenskii, D. Rachmetov, E Sendzikienea. *Industrial Crops and Products*. V.50. October 2013. 633–637 . ISSN 0926

30. Kalenska S., Kalenski V., Kachura I., Gonchar L., Matvienko A., Role of fertilizers and growth regulators in the improvement of winter wheat resistance to stress and yield. Nährstoff - und Wasserversorgung der Pflazenbestande unter den Bedingungen der Klimaerwärmung: Intern. wissenschaftliche Konferenz am 18-19.Oktober 2012 in Bernburg-Strenzfeld.2014 . ISBN: 978-3-86011-069-0. 65-71.

31. Kalenska S., Kalenskiy V., Kachura I., Kovalenko N. Plant resources of Ukraine in solving of food and energy security. Rolnictwo, gospodarka, obszary wielskie–10 lat w Unii Europejskiej, Warszawa: Wydawnictwo SGGW, 2014. 147-157