



**Sumy National Agrarian University**



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Faculty of Agro-technology and Environmental Management  
Department of landscape Gardening and Forestry

**Specialty:** 06/09/01 “**PLANT GROWING**”

**Topic of the dissertation thesis:**

“Productivity of the Brassicaceae family depending on the application of foliar fertilizers at different levels of NPK fertilization under the conditions of the North-Eastern Forest Steppe of Ukraine”

**Scientific supervisor:**

Doctor of Agricultural Sciences, Professor, **Andrey Vasylovych Melnyk**

**Term of studies:**

01.10.2016 - 01.10.2020

### **PUBLICATIONS:**

#### **Articles in Ukrainian professional collections**

1. Zherdetska, S.V., Melnyk, A.V., **Shabbir, G.**, Shahid, A. Mustard yields depending on weather and climatic conditions of the north-eastern forest-steppe of Ukraine. Bulletin of Sumy National Agrarian University. Sumy, 2016, No. 2. P. 127–130. (Personal contribution - conducting field research, generalization of experimental data, participation of the author - 25%).
2. Melnyk, A.V, Shahid, A., **Shabbir, G.** Selection of modern varieties of brown mustard for cultivation in the conditions of the north-eastern forest-steppe of Ukraine. Bulletin of Sumy National Agrarian University. Sumy, 2016, No. 9. P. 114–117. (Personal contribution - conducting field research, generalization of experimental data and preparation of the article, participation of the author - 35%).
3. Melnyk, A.V., Zherdetska, S.V., **Shabbir, G.**, Shahid, A. Various features of productivity formation of different kinds of spring mustards in the conditions of

- the north-eastern forest-steppe of Ukraine. Bulletin of Sumy National Agrarian University. Sumy, 2017, No. 2. P. 103–107. (Personal contribution - conducting a field study, generalization of experimental data and preparation of the article, participation of the author - 25%).
4. Melnyk, A.V., Zherdetska, S.V., Shahid, A., **Shabbir, G.** Specific features of the formation of green mass of mustard under the conditions of the left-bank Forest Steppe of Ukraine. Bulletin of the Kharkiv National Agrarian University. Kharkiv, 2017, No. 2. P. 79–83. (Personal contribution - conducting a field study, generalization of experimental data and preparation of the article, participation of the author - 25%).
  5. Melnyk, T.I., Zherdetska, S.V., **Shabbir, G.**, Ali, S. Influence of weather and climatic parameters on seeds quality of different types of mustard in the conditions of the North-Eastern Forest-Steppe of Ukraine. Bulletin of Sumy National Agrarian University. Sumy, 2018, No. 3. P. 53–57. (Personal contribution - conducting field research, generalization of experimental data and preparation of the article, participation of the author - 50%).
  6. Melnyk, A.V., Zherdetska, S.V., **Shabbir, G.**, Jia Peipei. Optimization of the feeding system of mustard in the conditions of the North-Eastern Forest-Steppe of Ukraine // Bulletin of Sumy National Agrarian University. - Sumy, 2018. - No. 9 (36). - P. 60-63 (Personal contribution - conducting a field research, generalization of experimental data and preparation of the article, participation of the author - 50%).
  7. Melnyk, A.V., Zherdetska, S.V., Shahid, A., **Shabbir, G.** Influence of foliar feeding on the productivity of white mustard in the conditions of the north-eastern forest-steppe of Ukraine. Bulletin of Sumy National Agrarian University. Sumy, 2019, No. 2. - P. 103–107. (Personal contribution - conducting a field study, generalization of experimental data and preparation of the article, participation of the author - 25%).
  8. **Shabbir, G.** Yield and quality of spring rapeseed depending on the complex application of mineral fertilizers and foliar fertilization in the conditions of the north-eastern forest-steppe of Ukraine // Taurian Scientific Bulletin. Kherson, 2020, No. 111. - P. 166–173. (Personal contribution - planning and conducting field research, generalization of experimental data and preparation of the article, participation of the author - 100%).

#### **Articles in foreign professional collections:**

1. Melnyk, A.V., Zherdetska, S.V., **Shabbir, G.**, Ali, S. The status and prospects of growing oilseeds in Ukraine with respect to climate change. International Scientific Journal of Science and Peace. Volgograd, 2015, № 10. P. 113–116 (Personal contribution - participated in information search, generalization of meteorological conditions over the last ten years, calculation of hydrothermal

coefficient and preparation of the article).

2. Melnik, A.V., Zherdetskaya, S.V., Ali, S., **Ghulam, S.** Agro-biological peculiarities of spring mustard cultivation in the conditions of the Left Bank Forest Steppe of Ukraine. News of the Samara State Agricultural Academy. Samara, 2017. № 1. P. 22–25. (Personal contribution - conducting a field study, generalization of experimental data and preparation of the article, participation of the author - 25%).
3. Melnyk, A.V., Zherdetska, S.V., Shahid Ali, **Ghulam Shabbir.** Agro-biological features of growing the brown mustard under the conditions of left-bank forest-steppe of Ukraine. AgroFor International Journal. Vol. 4. Issue No. 1, 2019. P. 93–12. (Personal contribution - planning and conducting of field research, generalization of experimental data and preparation of the thesis, participation of the author - 25%).

### Articles in publications indexed in Web of Science

1. The following articles have been submitted to the WOS Bragantia: “Response of growth and yield components of two cultivars of oilseed mustard (*Brassica juncea* L.) to NPK fertilizer under the agro-ecological conditions of north-eastern forest-steppe of Ukraine”.

### Participation in conferences

1. Melnyk, A.V., Zherdetska, S.V., **Shabbir, G.**, Ali, S. Influence of weather and climatic conditions on the productivity of brown and white mustard in the north-eastern forest-steppe of Ukraine. Proceedings of the International Scientific Conference on the 88<sup>th</sup> Anniversary of the Birth of Doctor of Agricultural Sciences, Professor Goncharov Mykola Demianovich "Gonchariv Readings" (Sumy, May 26-27, 2016). Sumy, 2016. pp. 63–64. (Personal contribution - conducting a field study, generalization of experimental data and preparation of the thesis, participation of the author - 30%).
2. Zherdetska, S.V., Shahid, A., **Ghulam, S.** Agrobiological peculiarities of cultivation of modern varieties of mustard sareptska in the conditions of the Left Bank Forest Steppe of Ukraine. Proceedings of the Second International Scientific and Practical Conference "World Plant Resources: Status and Prospects for Development" (Kyiv, November 3, 2016) Vinnitsa: Nilan-LTD, 2016. P. 178. (Personal contribution - planning and conducting of field research, generalization of experimental data and preparation of the thesis, participation of the author - 40%).
3. **Shabbir, G.**, Ali, S., Melnyk, A. Growth performance of some Brassica varieties for forage production under three salinity levels of irrigation water // 2nd International Balkan Agriculture Congress to be held at Namik Kemal

University, Tekirdağ, Turkey 16–18 May 2017. P. 165.

4. Zherdetska, S.V., **Shabbir, G.**, Ali, S. Seed yield and quality of seeds of different types of mustard in the conditions of the northeastern forest-steppe of Ukraine // Materials All-Ukrainian. Research Practice the conference dedicated to the 87th anniversary of the birth of Doctor of Agricultural Sciences, Professor Goncharov Mykola Demyanovich (Sumy, May 25-26, 2017). - 2017. - P. 89-91.
5. Melnyk, A.V., Zherdetska, S.V., **Ghulam, S.**, Ali, S. Features of formation of green biomass of different types of mustard in the conditions of the north-eastern forest-steppe of Ukraine: coll. of the International Scientific and Practical Conference "Efficiency of use of ecological agricultural production" (Kiev, November 2). Kiev, 2017, pp. 93–96. (Personal contribution - planning and conducting of the field research, generalization of experimental data and preparation of the thesis, participation of the author - 25%).
6. Melnyk, A.V., Zherdetska, S.V., Shahid A., **Ghulam S.** Agro-biological features of growing brown mustard under the conditions of left-bank forest-steppe of Ukraine / VIII International Scientific Agricultural Symposium "Agrosym 2018" Jahorina, 4-7 October 2018, Bosnia and Herzegovina (Personal contribution - planning and conducting field research, generalization of experimental data and preparation of the thesis, participation of the author - 25%).
7. Zherdetska, S.V., Ali, S., **Ghulam, S.**, Melnyk, A.V. Modern changes of agrometeorological factors and productivity of spring mustard in the conditions of the northern part of the left-bank Forest Steppe of Ukraine: Coll. of the International Scientific and Practical Conference "Climate Change and Agriculture. Challenges for Agrarian Science and Education" (Kyiv, March 13-14). Kiev, 2018. P. 102–104. (Personal contribution - planning and conducting of the field research, generalization of experimental data and preparation of the thesis, participation of the author - 30%).
8. Melnyk, T.I., Zherdetska, S.V., **Shabbir, G.**, Ali, S. Quality indices of spring mustard seeds depending on weather and climatic conditions of Sumy region. Proceedings of the International Scientific Conference on the 88<sup>th</sup> Anniversary of the Birth of Doctor of Agricultural Sciences, Professor Goncharov Mykola Demianovich "Gonchariv Readings" (Sumy, May 24-25, 2018). Sumy, 2018, pp. 31–32. (Personal contribution - carrying out the laboratory research, generalization of the obtained results and preparation of the thesis, participation of the author - 25%).
9. The thesis for participation in the International scientific-practical conference "Gonchariv Readings" was submitted to the press (Sumy, May 20-21, 2020). "Influence of foliar feeding on productivity of spring rapeseed in the conditions of the north-eastern Forest-Steppe of Ukraine".