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Consultation hours: on request (by e-mail)

Research interest:

- weed biology
- allelopathy
- herbicide-resistant weeds

Research experience:

Visiting Scholar (uczelnia, okres trwania)

University of British Columbia, Vancouver, Canada: 01.2009-09.2010

South Bohemia University of Life Science, Czech Republic: 09.2011

Prague University of Life Science, Czech Republic: 11.2016

University of Orleans, France: 09.2018-09.2019

DSc, (Habilitation) 2017, Analysis of the phytotoxic potential of selected essential oils towards weeds and crops

PhD 2004, Studies on herbicide resistance of botanical varieties of *Avena fatua* (L) to selected herbicides

Professional profiles:

ORCID: <http://orcid.org/0000-0001-6585-7759>

Researcher ID: <http://www.researcherid.com/rid/N-4697-2015>

Research Gate: https://www.researchgate.net/profile/Agnieszka_Synowiec

Google Scholar: <https://bit.ly/scholar-synowiec>

LinkedIn: <https://www.linkedin.com/in/agnieszka-synowiec-0a99544a/>

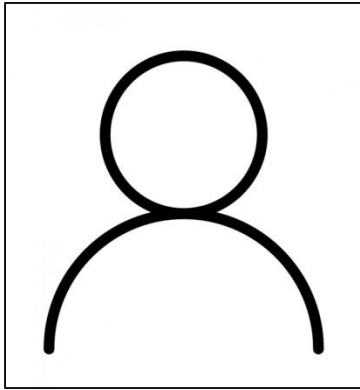
List of publications: 10 najważniejszych z 5 ostatnich lat:

1. Klima, K.; Synowiec, A.; Puła, J.; Chowaniak, M.; Pużyńska, K.; Gala-Czekaj, D.; Kliszcz, A.; Galbas, P.; Jop, B.; Dąbkowska, T.; Lepiarczyk, A. Long-Term Productive, Competitive, and Economic Aspects of Spring Cereal Mixtures in Integrated and Organic Crop Rotations. *Agriculture* **2020**, *10*, 231. <https://doi.org/10.3390/agriculture10060231>
2. Stankiewicz-Kosyl, M.; Synowiec, A.; Haliniarz, M.; Wenda-Piesik, A.; Domaradzki, K.; Parylak, D.; Wrochna, M.; Pytlarz, E.; Gala-Czekaj, D.; Marczevska-Kolasa, K.; Marcinkowska, K.; Praczyk, T. Herbicide Resistance and Management Options of *Papaver rhoeas* L. and *Centaurea cyanus* L. in Europe: A Review. *Agronomy* **2020**, *10*, 874. <https://doi.org/10.3390/agronomy10060874>
3. Synowiec A., Lenart-Boroń A., Bocianowski J., Lepiarczyk A., Kalembe D. How Soil-Applied Maltodextrin with Caraway (*Carum carvi* L.) Oil Affects Weed and Soil Microbiological Activity in Maize (*Zea mays* L.) Stands. *Pol J Environ Stud*, *29*(1), **2020**, 1-10.
4. Synowiec A., Krajewska A. Soil or Vermiculite-Applied Microencapsulated Peppermint Oil Effects on White Mustard Initial Growth and Performance. *Plants*, *9*(4), **2020**, 448; DOI:10.3390/plants9040448
5. Kalembe D., Synowiec A. Agrobiological Interactions of Essential Oils of Two Menthol Mints: *Mentha piperita* and *Mentha arvensis*. *Molecules*, *25*(59). **2020**, 59, DOI:10.3390/molecules25010059
6. Synowiec A., Możdżeń K, Krajewska A, Landi M, Araniti F: *Carum carvi* L. essential oil: A promising candidate for botanical herbicide against *Echinochloa crus-galli* (L.) P. Beauv. in maize cultivation, *Industrial Crops and Products*, *140*, **2019**, 1-1, DOI:10.1016/j.indcrop.2019.111652/
7. Synowiec A., Lenart-Boroń A., Kalembe D.: Effect of soil application of microencapsulated caraway oil on weed infestation and maize yield, *International Journal of Pest Management*, vol. 64, nr 4, **2018**, ss. 315-323, DOI:10.1080/09670874.2017.1419308/
8. Synowiec A., Kalembe D., Drozdek E., Bocianowski J.: Phytotoxic potential of essential oils from temperate climate plants against the germination of selected weeds and crops, *Journal of Pest Science*, vol. 90, nr 1, **2017**, ss. 407-419, DOI:10.1007/s10340-016-0759-2/
9. Synowiec A., Rys M., Bocianowski J., Wielgusz K., Byczyńska M., Heller K., Kalembe D.: Phytotoxic effect of fiber hemp essential oils on germination of some weeds and crops, *Journal of Essential Oil Bearing Plants*, vol. 19, nr 2, **2016**, ss. 262-276, DOI:10.1080/0972060X.2015.1137236/

10. Bochenek A., Synowiec A., Kondrat B., Szymczak M., Lahuta L.B, Gołaszewski J.: Do the seeds of *Solidago gigantea* Aiton. have physiological determinants of invasiveness? Acta Physiologiae Plantarum, nr 38(159), **2016**, ss. 1-11, DOI:10.1007/s11738-016-2179-6/

Załącznik nr.2

Maciej Chowaniak, assistant professor



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Consultation hours: Monday 18:00-19:00

Research interest:

Agriculture

Research experience:

PhD (2012, Soil protection of no till and plowing tillage system in the rotation link depending on the slope gradient)

Professional profiles (examples):

ORCID: <https://orcid.org/0000-0002-3154-3126>

List of publications: 10 najważniejszych z 5 ostatnich lat (obligatoryjnie)

1. Niemiec M., **Chowaniak M.**, Zuzek D., Komorowska M., Mamurovich G.S., Gafurovich K.K., Usmanov N., Kamilova D., Rahmonova J., Rashidov N. 2021. Effect of the nitrogen fertilization on yield of grapes and fertilization efficiency in Gissar Valley of the Republic of Tajikistan. *J. Elem.*, 26(1): 19 - 31. DOI: 10.5601/jelem.2020.25.1.1967
2. **Chowaniak M.**, Rashidov N., Niemiec M., Gambuś F., Lepiarczyk A. 2020. The Impact of Training Systems on Productivity and GHG Emissions from Grapevines in the Sughd Region in Northern Tajikistan. *Agronomy* 10, 818.
doi.org/10.3390/agronomy10060818
3. **Chowaniak M.**, Głąb T., Klima K., Niemiec M., Zaleski T., Zuzek D. 2020. Effect of tillage and crop management on runoff, soil erosion, and organic carbon loss. *Soil Use and Management*. doi.org/10.1111/sum.12606
4. Rashidov N., **Chowaniak M.**, Niemiec M. 2020. Assessment of the impact of differences in fertilization on selected yield indices for grapes in the Sughd Region of Tajikistan. *J. Elem.* 25(4). DOI: 10.5601/jelem.2019.24.2.1863
5. **Chowaniak M.**, Niemiec M. 2020. Effect of a tillage system and plant cover on phosphorus and potassium losses due to surface runoff. *J. Elem.*, 25(3): 917 - 929. DOI: 10.5601/jelem.2020.25.2.1792
6. Niemiec M., **Chowaniak M.**, Zuzek D., Komorowska M., Mamurovich G. S., Gafurovich, K. K., Usmanov N., Kamilova, D., Rahmonova J., Rashidov N. 2020. Evaluation of the chemical composition of soil as well as vine leaves and berries from the selected commercial farms in the republic of Tajikistan. *J. Elem.* 25(2), 675–686. DOI: 10.5601/jelem.2019.24.4.1810
7. Niemiec M., **Chowaniak M.**, Sikora J., Szeląg-Sikora A., Gródek-Szostak Z., Komorowska M. 2020. Selected Properties of Soils for Long-Term Use in Organic Farming. *Sustainability*, 12, 2509. DOI: 10.3390/su12062509

8. Klima K., Synowiec A., Puła J., **Chowaniak M.**, Pużyńska K., Gala-Czekaj D., Kliszc A., Galbas P., Jop B., Dąbkowska T., Lepiarczyk A. 2020. Long-Term Productive, Competitive, and Economic Aspects of Spring Cereal Mixtures in Integrated and Organic Crop Rotations. *Agriculture* 2020, 10, 231.

9. Klima K., Lepiarczyk A., **Chowaniak M.**, Boligłowa E. 2019. Soil-protective efficiency of organic cultivation of cereals. *J. Elem.*, 24(1): 357-368 DOI: 10.5601/jelem.2018.23.2.1610

10. Niemiec M., Sikora J., **Chowaniak M.**, Szeląg-Sikora A., Kuboń M. 2018. Bioaccumulation of iron, manganese, boron and lithium cobalt in *Lactarius salmonicolor* L, *Abies alba* M. and soil of the Przedbabiogorskie mountain range w in the Western Carpathians. *Annual Set the Environment Protection* 20: 1386-1401