Agnieszka,Synowiec, Dr.

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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.; Marczewska-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., Kalemba 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. Kalemba 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., Kalemba 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., Kalemba 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., Kalemba 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

Monika Tabak, PhD, DSc

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Consultation hours: Mondays, 2 p.m. to 3 p.m.

Research interest:

- Assessment of properties of plants and soil, including determination of the effect of human activities on these properties

- Properties of waste materials as well as the environmental effects of their application

- The effect of fertilization with mineral fertilizers on plant yielding and soil properties, increasing the efficiency of fertilization as a pro-environmental action

Research experience:

Visiting Scholar:

1. Dobrudzha Agricultural Institute, General Toshevo, Bułgaria, 07.08.2017-07.09.2017.

2. Mendel University, Brno, Czech Republic, 05-09.11.2018.

DSc, (Habilitation) (2019, 'The field-forming and environmental role of sulfate sulfur and the possibility of using sulfur pulp for the improvement of soil abundance in available sulfur')

PhD (2011, Influence of fertilization with organic materials on maize yield and on chemical and biological properties of soil)

Professional profiles:

ORCID: https://orcid.org/0000-0003-4248-7972
Researcher ID: https://publons.com/researcher/1681502/monika-tabak/

Google Scholar: https://scholar.google.com.au/citations?hl=en&user=8dgjcQcAAAAJ

List of publications:

1. Ciarkowska K., Sołek-Podwika K., Filipek-Mazur B., Tabak M. 2017. Comparative effects of lignite-derived humic acids and FYM on soil properties and vegetable yield. Geoderma, 303, 85-92. DOI: 10.1016/j.geoderma.2017.05.022.
2. Filipek-Mazur B., Tabak M., Gorczyca O., Lisowska A. 2019. Effect of sulfur-containing fertilizers on the quantity and quality of spring rape and winter wheat yield. Journal of Elementology, 24(4), 1383-1394. DOI: 10.5601/jelem.2019.24.1.1809.
3. Filipek-Mazur B., Tabak M., Koncewicz-Baran M., Bobowiec A. 2019. Mineral fertilizers with iron influence spring rape, maize and soil properties. Archives of Agronomy and Soil Science, 65(11), 1575-1585, DOI: 10.1080/03650340.2019.1571268.
4. Tabak M., Lepiarczyk A., Filipek-Mazur B., Bachara P. 2019. Ammonium nitrate enriched with sulfur influences wheat yield and soil properties. Plant, Soil and Environment, 65(4), 211-217. DOI: 10.17221/44/2019-PSE.
5. Antonkiewicz J., Kuc A., Witkowicz R., Tabak M. 2019. Effect of municipal sewage sludge on soil chemical properties and chemical composition of spring wheat. Ecological Chemistry and Engineering S, 26(3), 583-595. DOI: 10.1515/eces-2019-0043.
6. Sikora J., Niemiec M., Tabak M., Gródek-Szostak Z., Szeląg-Sikora A., Kuboń M., Komorowska M. 2020. Assessment of the efficiency of nitrogen slow-release fertilizers in integrated production of carrot depending on type fertilizers and fertilization strategy, Sustainability, 12(5), 1982. DOI:10.3390/su12051982.
7. Filipek-Mazur B., Pużyńska K., Tabak M., Pużyński S. 2020. Enzymatic activity of soil under spelt grown in an organic farming system in Poland's temperate climate. Agronomy, 10, 930, DOI:10.3390/agronomy10070930.

8. Tabak M., Lisowska A., Filipek-Mazur B. 2020. Bioavailability of sulfur from waste obtained during biogas desulfurization and the effect of sulfur on soil acidity and biological activity. Processes, 8, 863, DOI:10.3390/pr8070863.
9. Tabak M., Lepiarczyk A., Filipek-Mazur B., Lisowska A. 2020. Efficiency of nitrogen fertilization of winter wheat depending on sulfur fertilization. Agronomy, 10, 1304, DOI:10.3390/agronomy10091304.
10. Tabak M., Lisowska A., Filipek-Mazur B., Antonkiewicz J. 2020. The effect of amending soil with waste elemental sulfur on the availability of selected macroelements and heavy metals. Processes 2020, 8, 1245, DOI:10.3390/pr8101245