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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>

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

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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/