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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

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List of publications: 10 najważniejszych z 5 ostatnich lat:

1. 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/

2. Synowiec A., Drozdek E.: Physicochemical and herbicidal properties of emulsions of essential oils against *Avena fatua* L. and *Chenopodium album* L, Journal of Plant Diseases and Protection, vol. 123, nr 2, **2016**, ss. 65-74, DOI:10.1007/s41348-016-0012-5/

3. 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/

4. Synowiec A, Halecki W, Wielgusz K, Byczyńska M, Czaplicki S: Effect of Fatty Acid Methyl Esters on the Herbicidal Effect of Essential Oils on Corn and Weeds, Weed Technology, vol. 31, nr 2, **2017**, ss. 301-309, DOI:10.1017/wet.2016.17/

5. 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/

6. 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/

7. 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/

8. 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

9. 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.

10. 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