

**Summary Specification of Scientific Accomplishments of a Thesis Supervisor Candidate**  
 maximum 2 pages - it should be a synthesis of the most important elements of accomplishments

Name and surname, degree, scientific title: Katarzyna Michalska, PhD, Assistant Professor	
Scientific discipline/s	agriculture/horticulture
Professional development (scientific degrees and titles) chronologically	2014 Habilitation. Agriculture/Horticulture, Faculty of Horticulture, Biotechnology and Landscape Architecture, Warsaw University of Life Sciences,  1997 PhD. Agriculture/ Horticulture, Faculty of Horticulture, Biotechnology and Landscape Architecture, Warsaw University of Life Sciences  1985 M.Sc., Faculty of Horticulture, Biotechnology and Landscape Architecture, Warsaw University of Life Sciences
Most important publications/patents from the last 3 years (max. 10)	Michalska K., Mrowińska A., Studnicki M. 2023. Ectoparasitism of the flightless <i>Drosophila melanogaster</i> and <i>D. hydei</i> by the mite <i>Blattisocius mali</i> (Acari: Blattisociidae). <i>Insects</i> 14: 146. Michalska K., Studnicki M. 2021. What Could Arrest an Eriophyoid Mite on a Plant? The Case of <i>Aculops allotrichus</i> from the black locust tree. <i>Insects</i> 12: 1031.(IF) Michalska K., Studnicki M. 2021. Behavioural responses of females of the eriophyoid mite, <i>Aculops allotrichus</i> , to the presence of injured conspecifics. <i>International Journal of Acarology</i> 47: 41-50. (IF) Michalska, K., Tomczyk, A., Łotocka, B., Orzechowski S., Studnicki M. 2019. Oviposition by the vagrant eriophyoid mite <i>Aculops allotrichus</i> on leaves of black locust tree, <i>Robinia pseudoacacia</i> . <i>Experimental and Applied Acarology</i> 79: 1-19. (IF)
Experience in work with PhD students (defended dissertations, initiated dissertation procedures), chronologically	Supervision of the PhD student Manoj Kumar Jena (first year, admission to the Doctoral School of WULS: 2022/23
Project/grant accomplishments (from the last 10 years)	2011 –2014 Warsaw Plant Health Initiative. EC FP7 (286093. REGPOT-CT_2011-WULS Plant Health). Program participant  2006 - 2009 Economy of spermatophore production in two species of eriophyoid mites differing in the degree of dissociation between sexes. Polish Ministry of Science and Higher Education grant no 2PO4C 025 30. Project leader.

<p>Theme scope - research problem - for the solving of which the PhD student is sought</p>	<p>The relationship and interactions of mites of the genus <i>Blattisocius</i> (Blattisociidae) with fruit flies (Drosophilidae) with a special emphasis on <i>B. mali</i>.</p> <p>Species of the genus <i>Blattisocius</i> are a distinctive group of predatory mites, commonly inhabiting storehouses and warehouses, where they prey on harmful mites and insect eggs. These include <i>Blattisocius mali</i>, a promising predator in the biological control of acarid mites. Previous studies have shown that it can disperse using fruit flies. Moreover, it can feed on them during transportation and also prey on their eggs and further developmental stages. However, it is not known how close and specific the relationship between <i>B. mali</i> and fruit flies is, and whether other members of the genus <i>Blattisocius</i> can also spread using fruit flies. As part of the work, detailed field research is planned, including the assessment of the species composition of the genus <i>Blattisocius</i>, both on the bodies of collected fruit flies and in various habitats of these flies, supported by molecular identification. The ability of <i>B. mali</i> to disperse on other insects as well as other species of the genus <i>Blattisocius</i> on fruit flies will also be assessed. An important element of the research will be the observations of the behaviour of the selected species of the genus <i>Blattisocius</i> and fruit flies during dispersal and during predation on various developmental stages of the flies. The food preference of <i>Blattisocius</i> mites in relation to various prey types including the fruit flies as well as the developmental and demographic parameters of the mites fed on the fruit flies will also be examined.</p>
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