

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: Barbara Borawska-Jarmułowicz dr hab. inż.	
Scientific discipline/s	Agriculture and horticulture
Professional development (scientific degrees and titles) chronologically	PhD degree in 1994 Postdoctoral degree in 2019
Most important publications/patents from the last 3 years (max. 10)	<p>Borawska-Jarmułowicz B., Mastalerczuk G. 2023. Germination of <i>Lolium perenne</i> and <i>Medicago</i> species under the conditions of drought and silicon application as well as variable pH and <i>Medicago sativa</i> root extracts. <i>Plants</i> 12(4):910. DOI:10.3390/plants12040910</p> <p>Borawska-Jarmułowicz B., Mastalerczuk G., Janicka M., Wróbel B. 2022. Effect of silicon-containing fertilizers on the nutritional value of grass–legume mixtures on temporary grasslands, <i>Agriculture</i>, 12 (2), 1-15. DOI:10.3390/agriculture12020145</p> <p>Mastalerczuk G., Borawska-Jarmułowicz B., Darkalt A. 2022. Changes in the physiological and morphometric characteristics and biomass distribution of forage grasses growing under conditions of drought and silicon application. <i>Plants</i>, 12(1):16. DOI:10.3390/plants12010016</p> <p>Mastalerczuk G., Borawska-Jarmułowicz B. 2021. Physiological and morphometric response of forage grass species and their biomass distribution depending on the term and frequency of water deficiency. <i>Agronomy</i>, 11(12), 2471. DOI:10.3390/agronomy11122471</p> <p>Borawska-Jarmułowicz B., Mastalerczuk G., Dąbrowski P. Kalaji H.M., Wyrażek K. 2020. Improving tolerance in seedlings of some Polish varieties of <i>Dactylis glomerata</i> to water deficit by application of simulated drought during seed germination. <i>Photosynthetica</i> 58 (SI): 540-548. DOI:10.32615/ps.2020.007</p> <p>Borawska-Jarmułowicz B., Mastalerczuk G., Małuszyńska E., Borucki W. 2020. Morphological diversity of seeds of Polish <i>Festulolium</i> cultivars depending on weather conditions. <i>Biologia Plantarum</i>, 64, 814–820. DOI:10.32615/bp.2020.146</p> <p>Mastalerczuk G., Borawska-Jarmułowicz B., Kalaji H. M. 2019. How Kentucky bluegrass tolerate stress caused by sodium chloride used for road de-icing? <i>Environmental Science and Pollution Research</i>. <i>Environmental Science and Pollution Research</i>, 26, 913-922. DOI:10.21162/PAKJAS/17.5232</p> <p>Borawska-Jarmułowicz B. 2018. Relationships between different morphological traits of panicles and seeds of <i>Dactylis glomerata</i> L. varieties under seed utilization. <i>Agricultural and Food Science</i>, 27, 179-189. DOI:10.23986/afsci.69096</p> <p>Borawska-Jarmułowicz B., Mastalerczuk G., Gozdowski D., Małuszyńska E., Szydłowska A. 2017. The sensitivity of <i>Lolium perenne</i> and <i>Poa pratensis</i> to salinity and drought during the seed</p>

	<p>germination and under different photoperiod conditions. <i>Zemdirbyste-Agriculture</i>, 104 (1), 71–78. DOI:10.13080/z-a.2017.104.010</p> <p>Mastalerczuk G., Borawska-Jarmulowicz B., Kalaji H. M., Dąbrowski P., Paderewski J. 2017. Gas exchange parameters and morphological features of festulolium (<i>Festulolium braunii</i> K. Richert A. Camus) in response to nitrogen dosage. <i>Photosynthetica</i> 55(1), 20-30. DOI:10.1007/s11099-016-0665-0</p>
<p>Experience in work with PhD students (defended dissertations, initiated dissertation procedures), chronologically</p>	<p>Promoter in the Ph.D. Żaneta Tuchowska (Doctoral School of Warsaw University of Life Sciences) - from 28/01/2021. Doctoral dissertation "Ecophysiological reaction of selected plant species as a criterion for their selection when designing green external walls".</p> <p>Bartosz Spychalski - doctoral dissertation "Assessment of winter oilseed rape reaction to selected groups of growth stimulants by means of growth analysis" implemented at the Institute of Technology and Life Sciences in Falenty (Resolution No. 786/2018 of the ITP Scientific Council in Falenty of 20.09.2018) - the nature of scientific care - auxiliary promoter.</p>
<p>Project/grant accomplishments (from the last 10 years)</p>	<p>The Horizon 2020 SUPER-G project (Developing Sustainable Permanent Grassland Farming Systems and Policies) founded by the European Community's Horizon 2020 Programme under Grant Agreement no. 774124, 2018 – 2023, contractor .</p> <p>The natural and feed value of plant communities grazed by Polish horses in the Biebrza National Park, KBN No. 501-01-01-25-0027, 2009–2012, contractor.</p>
<p>Theme scope - research problem - for the solving of which the PhD student is sought</p>	<p>The leading topic in the research is the evaluation of seed yield and seed quality of forage grass varieties under organic farming conditions. Research - in a certified ecological field (Miedniewice) and under controlled conditions (vegetation chamber, greenhouse). I suggest dr inż. Grażyna Mastalerczuk as the auxiliary supervisor (Department of Agronomy, Institute of Agriculture).</p>
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