

**Candidate supervisor's information summary form**  
maximum 2 pages – it should be a summary of most important achievements

Name and surname, degree, title:	<b>Prof. Grzegorz Bartoszewski</b>
Discipline/ disciplines of science	biological sciences
Professional development (degrees and titles) in chronological order	<p>2018 – professor, plant genetics</p> <p>2007 – habilitation, biotechnology</p> <p>2000-2002 – postdoc, University of Wisconsin, Madison, USA</p> <p>1997 – PhD in agriculture</p> <p>1995 – Research Fellow, CPRO Wageningen, The Netherlands</p> <p>1993 – MSc, plant genetics</p>
Most important publications/patens over the last 3 years (maximum 10)	<p>Olechowska E, Słomnicka R, Kaźmińska K, Olczak-Woltman H, <b>Bartoszewski G</b> (2022) The genetic basis of cold tolerance in cucumber (<i>Cucumis sativus</i> L.) - the latest developments and perspectives. J. Appl. Genet 63:597–608 <a href="https://doi.org/10.1007/s13353-022-00710-2">DOI:10.1007/s13353-022-00710-2</a></p> <p>Słomnicka R, Olczak-Woltman H, Sobczak M, <b>Bartoszewski G</b> (2021) Transcriptome profiling of cucumber (<i>Cucumis sativus</i> L.) early response to <i>Pseudomonas syringae</i> pv. <i>lachrymans</i>. Int J Mol Sci 22:4192 <a href="https://doi.org/10.3390/ijms22084192">DOI:10.3390/ijms22084192</a></p> <p>Dostatny DF, Korzeniewska A, <b>Bartoszewski G</b>, Rawski R, Kaźmińska K, Gelvonauskis B (2021) The evaluation and conservation of plant genetic resources collected in Lithuania. Agronomy 11:1586 <a href="https://doi.org/10.3390/agronomy11081586">DOI:10.3390/agronomy11081586</a></p> <p>Kaźmińska K, Hallmann E, Korzeniewska A, Niemirowicz-Szczytt K, <b>Bartoszewski G</b> (2020) Identification of fruit-associated QTLs in winter squash (<i>Cucurbita maxima</i> Duchesne) using recombinant inbred lines Genes 11:419 <a href="https://doi.org/10.3390/genes11040419">DOI:10.3390/genes11040419</a></p> <p>Tańska M, Ogródowska D, <b>Bartoszewski G</b>, Korzeniewska A, Konopka I (2020) Seed lipid composition of new hybrids of styrian oil pumpkin grown in Poland. Agronomy 10:1104 <a href="https://doi.org/10.3390/agronomy10081104">DOI:10.3390/agronomy10081104</a></p>
Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order	<p><b>Finished PhD thesis:</b></p> <p>2021 K. Kaźmińska: Evaluation of the diversity of recombinant inbred lines and accessions of winter squash (<i>Cucurbita maxima</i>)</p> <p>2019 R. Słomnicka: Molecular and phenotypic evaluation of cucumber plants in response to <i>Pseudomonas syringae</i> pv. <i>lachrymans</i> infection <a href="#">awarded by the Faculty Council</a></p> <p>2017 T. Mróz: Structural analysis of line B mitochondrial genome and identification of differentially expressed genes in MSC mitochondrial mutants of cucumber – <a href="#">awarded by Faculty Council</a></p> <p>2015 M. Oskiera: Molecular identification and genetic diversity of <i>Trichoderma</i> strains potentially useful in biological plant protection – <a href="#">Distinction of Institute of Horticulture, Emil Chroboczek's Award</a></p>

	<p>2010 M. Czarny: Functional analysis of tomato genes involved in secondary metabolism and induced by potato cyst nematode</p> <p><b>Open Doctoral Works:</b></p> <p>2022 – 2026 Bartosz Biernacik: Identification of plant architecture genes in cucumber</p> <p>2022 – 2026 Kinga Gołębiowska: The role of non-coding RNAs and RNA-modifying proteins in chloroplast translation</p> <p>2020 – 2024 Emilia Olechowska: Evaluation of tolerance to cold stress in cucumber and identification of cold stress response genes</p>
Project/grants achievements (from the last 10 years)	<p><b>Principal Investigator:</b></p> <p>2023-2024 "InnoSeed" PROW Współpraca, funded by ARMiRW</p> <p>2021-2025 "Identification of genes controlling growth habit in cucumber" in the framework of basic research for crop improvement, funded by the Ministry of Agriculture and Rural Development</p> <p>2018-2021 "Regeneration and valorization of Polish genetic resources of cucurbits" in the framework of Polish GenBank activities, funded by the Ministry of Agriculture and Rural Development</p> <p>2015-2019 "Improving cucumber resistance to angular spot disease" in the framework of basic research for crop improvement, funded by the Ministry of Agriculture and Rural Development</p> <p>2011-2015 "Dynamics of the cucumber transcriptome on the example of mitochondrial MSC mutants" funded by the Ministry of Science and Higher Education</p> <p>2009-2014 "Polish <i>Trichoderma</i> strains in plant protection and organic waste management" in the frames of European Regional Development Fund within the Innovative Economy Operational Programme of EU</p>
Topic – research problem – for which the candidate supervisor seeks a doctoral student	<p><b>Proposals of PhD thesis:</b></p> <p>Identification and molecular characterization of male sterility gene <i>ms8</i> in sweet pepper (<i>Capsicum annuum</i> L.).</p> <p>Molecular genetics and genomics approaches will be used. High-throughput molecular mapping will be applied to identify and characterize <i>ms8</i> gene. Reliable molecular markers for pepper improvement will be developed. Research expenses will be covered by InnoSeed project.</p>
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