

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

Name and surname, degree, title: Marzena Sujkowska-Rybkowska, D.Sc.	
Discipline/ disciplines of science	Agriculture and horticulture
Professional development (degrees and titles) in chronological order	2001 – master degree 2006 – PhD in agricultural science in the field of agronomy 06.05.2021 - doctor with habilitation in the field of agriculture, in the discipline agriculture and horticulture
Most important publications/patens over the last 3 years (maximum 10)	<p>1. Sujkowska-Rybkowska M, Kasowska D., Gediga K, Banasiewicz J., Stępkowski T, 2020. <i>Lotus corniculatus</i> - rhizobia symbiosis under Ni, Co and Cr stress on ultramafic soil. <i>Plant and Soil</i> 451: 459-484.</p> <p>2. Sujkowska-Rybkowska M, Banasiewicz J, Rekosz-Burlaga H, Stępkowski T, 2020. <i>Anthyllis vulneraria</i> and <i>Lotus corniculatus</i> on calamine heaps form nodules with <i>Bradyrhizobium liaoningense</i>-related strains harboring novel in Europe symbiotic nifD haplotypes. <i>Applied Soil Ecology</i> 151:103539.</p> <p>3. Sujkowska-Rybkowska M, Muszyńska E, Labudda M, 2020. Structural adaptation and physiological mechanisms in the leaves of <i>Anthyllis vulneraria</i> L. from metallicolous and non-metallicolous populations. <i>Plants</i> 9:662.</p> <p>4. Czarnocka W, Rusaczonek A, Willems P, Sujkowska-Rybkowska M, Van Breusegem F, Karpinski S, 2020. Novel role of JAC1 in influencing photosynthesis, stomatal conductance and photooxidative stress signalling pathway in <i>Arabidopsis thaliana</i>. <i>Frontiers in Plant Science</i>. 11:1124</p> <p>5. Bederska-Błaszczuk, M., Sujkowska-Rybkowska, M., Borucki W., (2021). <i>Sinorhizobium medicae</i> 419 vs <i>S. meliloti</i> 1021: differences in root nodules induced by these two strains on the <i>Medicago truncatula</i> host. <i>Acta Physiologia Plantarum</i> 43: 7.</p> <p>6. Rusaczonek A, Czarnocka W, Willems P, Sujkowska-Rybkowska M, Van Breusegem F, Karpiński S (2021). Phototropin 1 and 2 influence photosynthesis, UV-C induced photooxidative stress responses and cell death. <i>Cells</i> 10:200.</p> <p>7. Witoń D, Sujkowska-Rybkowska M, Dąbrowska-Bronk J, Czarnocka W, Bernacki M, Szechyńska-Hebda M, Karpiński S (2021) Mitogen-activated protein Kinase4 impacts leaf</p>

	development, temperature, and stomatal movement in hybrid aspen. <i>Plant Physiology (in press)</i>
Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order	None
Project/grants achievements (from the last 10 years)	<p>Principal Investigator Grant NCN (MINIATURA 3, DEC-2019/03/X/NZ9/00019 - 2019-2020)</p> <p>Co-worker Grant MNil (2PO6A 006 28 - 2004-2006) Grant NCN (Sonata Bis 3, UMO-2013/10/E/NZ3/00748- 2014-2020)</p>
Topic – research problem – for which the candidate supervisor seeks a doctoral student	Interdisciplinary research on the adaptation of legume plants spontaneously colonizing metalliferous heaps, to growth in an environment containing extremely high concentrations of toxic metals.
<p><u>Contact details:</u></p> <p>Faulty/Institute</p> <p>E-mail address</p> <p>Tel.</p>	<p>Institute of Biology, Department of Botany</p> <p>marzena_sujkowska@sggw.edu.pl;</p> <p>marzenasujkowska2@gmail.com</p> <p>(22) 59 32 657</p>