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)	1. **Sujkowska-Rybkowska M,** Kasowska D., Gediga K**,** Banasiewicz J., Stępkowski T, 2020. *Lotus corniculatus* - rhizobia symbiosis under Ni, Co and Cr stress on ultramafic soil. *Plant and Soil* **451**: 459-484. 2. **Sujkowska-Rybkowska M,** Banasiewicz J, Rekosz-Burlaga H, Stępkowski T, 2020. *Anthyllis vulneraria* and *Lotus corniculatus* on calamine heaps form nodules with *Bradyrhizobium liaoningense*-related strains harboring novel in Europe symbiotic nifD haplotypes. *Applied Soil Ecology* **151**:103539. 3**. Sujkowska-Rybkowska M,** Muszyńska E, Labudda M, 2020. Structural adaptation and physiological mechanisms in the leaves of *Anthyllis vulneraria* L. from metallicolous and non-metallicolous populations. *Plants* **9**:662. 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 *Arabidopsis thaliana*. *Frontiers in Plant Science.* **11:**1124 5. Bederska-Błaszczyk M, **Sujkowska-Rybkowska M**, Borucki W, 2021. *Sinorhizobium medicae* 419 vs *S. meliloti* 1021: differences in root nodules induced by these two strains on the *Medicago truncatula* host. *Acta Physiologia Plantarum* **43:** 7. 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. *Cells* **10**:200. 7. Nosek M, Gawrońska K, Rozpądek P, **Sujkowska-Rybkowska M**, Miszalski Z, Kornaś A, 2021. At the edges of photosynthetic metabolic plasticity—on the rapidity and extent of changes accompanying salinity stress-induced CAM photosynthesis withdrawal. *Intern J Mol Sci,* ISSN:1422-0067,

	Vol:22, 8426, doi:10.3390/ijms22168426. 8. Witoń D, **Sujkowska-Rybkowska M**, Dąbrowska-Bronk J, Czarnocka W, Bernacki M, Szechyńska-Hebda M, Karpiński S, 2021. Mitogen-activated protein Kinase4 impacts leaf development, temperature, and stomatal movement in hybrid aspen. *Plant Physiol.* 186(4):2190-2204. doi: 10.1093/plphys/kiab186. 9. **Sujkowska-Rybkowska M**, Rusaczonek A., Kochańska-Jezierska A, 2022. Exploring apoplast reorganization in the nodules of *Lotus corniculatus* L. growing on old Zn–Pb calamine wastes. *J Plant Physiol*. 268, 153561. doi.org/10.1016/j.jplph.2021.153561. 10**.** Oleńska E, Małek W, **Sujkowska-Rybkowska M**, Szopa S, Włostowski T, Aleksandrowicz O, Swiecicka I, Wójcik M, Thijs S, Vangronsveld J, 2022. An alliance of *Trifolium repens* - *Rhizobium leguminosarum* bv. *trifolii* mycorrhizal fungi from an old Zn-Pb-Cd rich waste heap as a promising tripartite system for phytostabilization of metal polluted soils. *Front Microbiol*. 13:853407. doi: 10.3389/fmicb.2022.853407**.**
Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order	None
Project/grants achievements (from the last 10 years)	**Principal Investigator** Grant NCN (MINIATURA 3, DEC-2019/03/X/NZ9/00019 - 2019-2020) **Co-worker** Grant NCN (Sonata Bis 3, UMO-2013/10/E/NZ3/00748- 2014-2020)
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.
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