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

Name and surname, degree, title: Urszula Krasuska D.Sc.	
Discipline/ disciplines of science	Biological sciences
Professional development (degrees and titles) in chronological order	17. 02. 2003 – master degree; 17. 12. 2009 – PhD in agricultural science in the field of agronomy; 26. 09. 2019 – doctor with habilitation in the field of exact and natural sciences, in the discipline of biological sciences.
Most important publications/patens over the last 3 years (maximum 10)	**1.** Andrzejczak O., **Krasuska U**., Olechowicz J., Staszek P., Ciacka K., Bogatek R., Hebelstrup K., Gniazdowska A. (2018) Destabilization of ROS metabolism in tomato roots as a phytotoxic effect of *meta*-tyrosine. Plant Physiology and Biochemistry 123: 369-377. **2.** Ciacka K., **Krasuska U.,** Otulak-Kozieł K., Gniazdowska A. (2019) Dormancy removal by cold stratification increases glutathione and *S*-nitrosoglutathione content in apple seeds. Plant Physiology and Biochemistry 138: 112–120. **3.** Staszek P., **Krasuska U**., Otulak-Kozieł K., Fettke J, Gniazdowska A. (2019) Canavanine induced decline in NO synthesis alters activity of antioxidant system but does not impact GSNO catabolism in tomato roots. Frontiers in Plant Sciences 10, article 1077. **4.** Ciacka K., Tymiński M., Gniazdowska A., Krasuska U. (2020) Carbonylation of proteins – an element of plant ageing. Planta 252, 12. **5.** Ciacka K., Krasuska U., Staszek P., Wal A., Zak J., Gniazdowska A. (2020) Effect of nitrogen reactive compounds on aging in seeds. Frontiers in Plant Science 11: 1011. Staszek P. Krasuska U., Bederska-Błaszczyk M., Gniazdowska A. (2020) Canavanine increases the content of phenolic compounds in tomato (*Solanum lycopersicum* L.) roots. Plants 9: 11
Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order	Assistant supervisor of two doctoral thesis. Defended PhD thesis in Biological Sciences (2017, 2018). Present: supervisor of the PhD student admitted to the Doctoral School (WULS) in 2020.
Project/grants achievements (from the last 10 years)	Grant NCN OPUS (12) no. 2016/23/B/NZ9/03462 (2017-2020): The role of nitric oxide as compound improving ability to germination of apple embryos isolated from warm statified seeds. **Principal Investigator.** Grant NCN OPUS (7), no. 2014/13/B/NZ9/02074 (2015-2018): Reactive nitrogen species and polyamines in the regulation of

	phytotoxic effect of non-protein amino acids on root growth. **Co-worker.** Grant NCN no. NN 303821840 (2011-2014): The involvement of polyamines and nitric oxide in the regulation of apple (*Malus domestica* Borkh.) embryos dormancy removal and germination. **Co-worker.** Grant NCN no. NN303 090534 (2008-2011): The involvement of nitric oxide in the regulation of ethylene biosynthesis in germinating apple embryos. **Co-worker.**
Topic – research problem – for which the candidate supervisor seeks a doctoral student	Confirmation and determination of ROS/RNS content alterations, and the involvement of selected secondary metabolites in the traps fluid and tissues of pitcher plant (*Nepenthes ventrata*) during external digestion of nourishment of the animal origin.
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