Candidate supervisor's information summary form

maximum 2 pages – it should be a summary of most important achievements

Name and surname, degree, title: Katarzyna Otulak-Kozieł, D.Sc.	
Discipline/ disciplines of science	Biological Sciences
Professional development (degrees and titles) in chronological order	2003 – MSc .degree; 30.10.2008 – PhD in agricultural science, in the field of agricultural biotechnology; 28.01.2021– 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)	Kozieł E., **Otulak-Kozieł K.**, Bujarski J. (2021) Plant Cell Wall as a Key Player During Resistant and Susceptible Plant-Virus Interactions. *Frontiers in Microbiology*, 2021, vol. 12. DOI:10.3389/fmicb.2021.656809. **Otulak-Kozieł K.**, Kozieł E., Bujarski J.J. (2020) Respiratory Burst Oxidase Homologs RBOHD and RBOHF as Key Modulating Components of Response in Turnip Mosaic Virus—Arabidopsis thaliana (L.) Heyhn System. *International Journal of Molecular Sciences*, 2020, vol. 21, nr 22, s.1-24, article number :8510. DOI:10.3390/ijms21228510. **Otulak-Kozieł K**, Kozieł E, Lockhart B, Bujarski J.J. (2020) The Expression of Potato Expansin A3 (StEXPA3) and Extensin4 (StEXT4) Genes with Distribution of StEXPAs and HRGPs-Extensin Changes as an Effect of Cell Wall Rebuilding in Two Types of PVY NTN -Solanum tuberosum Interactions. *Viruses*, 12(1), 66; DOI: 10.3390/v12010066. **Otulak-Kozieł K**.*, Kozieł E.*, Escalante C., Valverde R. (2020) Ultrastructural analysis of cells from bell pepper (Capsicum annuum) infected with bell pepper endornavirus. *Front. Plant Sci*. doi: 10.3389/fpls.2020.00491. Kozieł E*., **Otulak-Kozieł K***, Bujarski J.J. (2020) Modifications in tissue and cell ultrastructure as elements of immunity-like reaction in Chenopodium quinoa against Prune dwarf virus (PDV). *Cells*, 19(9): 2733, doi:10.3390/ijms18122733. Bojarska A., Janas K., Pejsak Z., **Otulak-Kozieł K.,** Garbaczewska G., Hrynkiewicz W., Sadowy E*. (2020) Diversity of serotypes and new cps loci variants among Streptococcus suis isolates from pigs in Poland and Belarus. *Veterinary Microbiology*, 240: 108534, doi: 10.1016/j.vetmic.2019.108534. Staszek P*., Krasuska U., **Otulak-Kozieł K**., Fettke J., Gniazdowska A. (2019) Canavanine-induced decrease in nitric oxide synthesis alters activity of antioxidant system but does not impact s-nitrosoglutathione catabolism in tomato roots. *Frontiers in Plant Science*, 10:1077, doi: 10.3389/fpls.2019.01077.

	Otulak-Kozieł K, Kozieł E., Valverde R.A. (2019) The Respiratory Burst Oxidase Homolog D (RbohD) Cell and Tissue Distribution in Potato-Potato Virus Y (PVYNTN) Hypersensitive and Susceptible Reactions. International Journal of Molecular Sciences, 20 (11): 2741. DOI: 10.3390/ijms20112741. Grupa A., **Otulak-Kozieł K.**, Syller J. (2018) Serological, molecular and immunofluorescent evidence for interference competition between isolates of Potato virus Y. 2018, Plant Pathology, vol. 67, nr 9, s.1997-2012. DOI:10.1111/ppa.12892.
Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order	Assistant supervisor of doctoral thesis entitled "Pathogenesis of plum vegetative and generative organs and test plants infected with plum dwarfism virus."- doctoral dissertation defended with honors in April 2016, in Biological Sciences
Project/grants achievements (from the last 10 years)	Project manager (2018–2019)-NSC project Miniatura 2 no 2018/02/X/NZ9/00832 "Dynamics of change of apoplast of susceptible and resistant potato plants in response to potato virus Y inoculation (PVYNTN)"; Main contractor (2014–2017)-project OPUS 5 no 2013/09/B/NZ9/02421, NCN "Interactions between Potato virus Y (PVY) isolates in mixed infections and their influence on the spatial distribution and dynamics of virus subpopulation in host plant tissues," Contractor (2015–2018) project Opus7 2014/13/B/NZ9/02074, NSC "Reactive forms of nitrogen and polyamines in the regulation of phytotoxic effects of non-protein amino acids on root growth,"
Topic – research problem – for which the candidate supervisor seeks a doctoral student	Factors affecting *Potyvirus* or *Caulimovirus* replication complexes in host-plants with different resistance level to virus infection.
<u>Contact details:</u> Faulty/Institute E-mail address Tel.	Katarzyna Otulak-Kozieł Institute of Biology katarzyna_otulak@sggw.edu.pl 22 59 32 657