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

Name and surname, degree, title: Elżbieta Paduch-Cichal Professor	
Discipline/ disciplines of science	agriculture, horticulture
Professional development (degrees and titles) in chronological order	WULS, Professor in Agriculture, 2013, disciplines agriculture and horticulture WULS, Doctor hab. in Agriculture, 2001, disciplines agriculture and horticulture WULS, Doctor of Philosophy in Agriculture, 1985, disciplines agriculture and horticulture Warsaw University of Life Sciences (WULS), Master of Science in Horticulture, 1980, disciplines agriculture
Most important publications/patens over the last 3 years (maximum 10)	Schollenberger M. , Staniek T.M., Paduch-Cichal E., Dasiewicz B., Gadomska-Gajadhur A., Mirzwa-Mróz E. 2018. The activity of essential oils obtained from species and interspecies hybrids of the Mentha genus against selected plant pathogenic bacteria. Acta Sci. Pol. Hortorum Cultus, 17(6) 2018, 167–174. (DOI: 10.24326/asphc.2018.6.17) Bereda M., Paduch-Cichal E. 2019. Population genetics analysis of Garlic virus-A, Garlic virus-B, Garlic virus-C and Garlic virus X. Acta Sci. Pol. Hortorum Cultus, 18(3): 99–115. (DOI: 10.24326/asphc.2019.3.10) Małgorzata Schollenberger M., Pudło S., Paduch-Cichal E. Mirzwa-Mróz E. 2019. Efficacy of biochemical preparations and extract from Hypericum perforatum against bacterial diseases. Acta Sci. Pol. Hortorum Cultus, 18(3): 147–156. (DOI: 10.24326/asphc.2019.3.14) Mirzwa-Mróz E., Kukuła W., Kuźma K., Wit M., Jabłońska E., Wakuliński W., Paduch-Cichal E. 2019. First Report of Downy Mildew Caused by Plasmopara muralis on Boston Ivy (Parthenocissus tricuspidata) in Poland. Plant Disease, The American Phytopathological Society 103(7): 10793 (DOI: 10.1094/PDIS-01-19-0034- PDN) Dąbrowska E., Lewandowski M., Koczkodaj S., Paduch-Cichal E. 2020. Transmission of Garlic virus B, Garlic virus C and Garlic virus X by Aceria tulipae (Keifer) in leek. European Journal of Plant Pathology 157: 215-222. (DOI: 10.1007/s10658-020-01959-1)
Experience in work with doctoral students (defended doctoral dissertations, doctoral	Kingi Sala-Rejczak. „Biological diversity, serological and molecular characterization of *Prunus necrotic ringspot virus*" (graduate with distinction). January 10, 2007

programmes opened) in chronological order	Karolina Mroczkowska "Biological, serological and molecular characterisation of *Prune dwarf virus* isolates" . May 21, 2014 Elżbieta Kalinowska "Detection, identification and molecular characterization of Polish isolates of Blueberry red ringspot (BRRSV)". (graduate with distinction). May 6, 2015 Maria Chodorska „Characterization of allexiviruses – pathogens of garlic plants (Allium sativum L.)" (graduate with distinction) January 6, 2016
Project/grants achievements (from the last 10 years)	Leader - Ministry of Science and High Education research project OPUS (project no N N310 036038) "The occurrence, detection and characterisation blueberry viruses in central and south-eastern region of Poland". 2010-2013. Leader of VirTeam in Work package - WP5 Phtyopathology research teams. „WULS Plant Health-Warsaw Plant Health Initiative" Seventh Framework Programme: FP7-REGPOT-2011 1, Grant Agreement no. 286093, 2011-2015. Performer of Work package – WP1 Update of research policy and enhancement of internal organization. „WULS Plant Health-Warsaw Plant Health Initiative" Seventh Framework Programme: FP7-REGPOT-2011-1, Grant Agreement no. 286093. 2011-2015 Project supervisor - National Science Centre, research project PRELUDIUM 04 (project no 2012/07/N/NZ9/01797) „Relation between pathogenicity and genetic polymorphism with *Blueberry scorch virus*, (BlScV)". Leader: dr Elżbieta Kalinowska 2013-2015. Project supervisor - National Science Centre, research project PRELUDIUM 04 (project no 2012/07/N/NZ9/00037). „Detection, serological characterization and molecular diversity of the Polish virus isolates belonging to the Allexivirus genus". Leader: dr Maria Bereda 2013-2016.
Topic – research problem – for which the candidate supervisor seeks a doctoral student	The main aim of this study is to verify the existence of competition among ectomycorrhizal (ECM) fungi in urban areas using the priority effect, as obtained upon the experimental manipulation of the order of tree root colonisation by ectomycorrhizal fungi. The results of preliminary research show that, in urban areas, the specific tree growth conditions are a major factor affecting the formation of the ECM fungi structure. The formation of this structure may be greatly dependent on the priority effect that alters the competitive interactions in the urban ECM fungi populations. The research will involve the use of the several methods and techniques: microbiological (ECM inoculation), microscopic (ECM assessment) and ecological methods (determination of the biometrical parameters of plants, soil chemical analysis) as well as modern molecular biology techniques, including the ITS1 and ITS4 primer amplification and

	sequencing of fungal DNA and High-Throughput Sequencing (HTS) thereof. The use of HTS will constitute an innovative approach to the research of the priority effect among ECM fungi as well as enable to study the microbial community in root endosphere and determine the ECM species that are the most active colonisers of tree roots.
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