

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

Name and surname, degree, title: Julita Rabiza-Świder, dr hab., prof. SGGW	
Discipline/ disciplines of science	Agriculture and horticulture
Professional development (degrees and titles) in chronological order	<p>PhD degree in agriculture, discipline horticulture; Faculty of Horticulture and Landscape Architecture at the Warsaw University of Life Sciences (SGGW): 25.06.2003; The thesis title: “Control of the senescence in cut leaves of <i>Zantedeschia aethiopica</i> Spr. and <i>Hosta</i> ‘Undulata Erromena’”, supervisor: prof. dr hab. Aleksandra Łukaszewska.</p> <p>Habilitated doctor of agricultural sciences in the discipline of agriculture and horticulture, Faculty of Horticulture, Biotechnology and Landscape Architecture, Warsaw University of Life Sciences, 29.05.2019. Dissertation title: „Effect of postharvest treatments on senescence in cut flowers of <i>Clematis</i> L.”</p>
Most important publications/patens over the last 3 years (maximum 10)	<p>Rabiza-Świder J., Skutnik E., Jędrzejuk A. 2019. The effect of a sugar-containing preservative on senescence-related processes in cut clematis flowers. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> 47(2): 432-440.</p> <p>Rabiza-Świder J., Skutnik E., Jędrzejuk A., Sochacki D. 2020. Effect of preservatives on senescence of cut daffodil (<i>Narcissus</i> L.) flowers. <i>The Journal of Horticultural Science and Biotechnology</i> 95(3): 331-340.</p> <p>Rabiza-Świder J., Skutnik E., Jędrzejuk A., Rochala-Wojciechowska J. 2020. Nanosilver and sucrose delay the senescence of cut snapdragon flowers. <i>Postharvest Biology and Technology</i> 165: 111165.</p> <p>Skutnik E., Jędrzejuk A., Rabiza-Świder J., Rochala-Wojciechowska J., Latkowska M., Łukaszewska A. 2020. Nanosilver as a novel biocide for control of senescence in garden cosmos. <i>Scientific Reports</i> 10: 10274.</p> <p>Rabiza-Świder J., Skutnik E., Jędrzejuk A., Łukaszewska A. 2020. Postharvest treatments improve quality of cut peony flowers. <i>Agronomy</i> 10(10): 1583.</p> <p>Skutnik E., Rabiza-Świder J., Jędrzejuk A., Łukaszewska A. 2020. The effect of the long-term cold storage and preservatives on senescence of cut herbaceous peony flowers. <i>Agronomy</i> 10(11): 1631.</p>

	Skutnik E., Łukaszewska A., Rabiza-Świder J. 2021. Effects of postharvest treatments with nanosilver on senescence of cut lisianthus (<i>Eustoma grandiflorum</i> (Raf.) Shinn.) flowers. <i>Agronomy</i> 11: 215.
Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order	Auxiliary advisor in the doctoral thesis: Musiał D.A.: "Control of postharvest longevity of forced common lilac flowers (<i>Syringa vulgaris</i> L.)", 17.07.2019.
Project/grants achievements (from the last 10 years)	Senescence control of cut clematis (<i>Clematis</i> sp.) and lilac (<i>Syringa vulgaris</i> L.) flowers, 21.05.2009-20.05.2012, the research project of Ministry of Science and Higher Education No. N N310 089336, the main holder. Effect of Chrysal BVB + on the quality of cut tulip flowers, Chrysal Company project, 2020, the project leader.
Topic – research problem – for which the candidate supervisor seeks a doctoral student	For many years, my research topics have been related to the postharvest physiology of floristic material. The knowledge gained in this field allows me to broaden the assortment of studied plant species and research problems. The basic research involves the analysis of changes, at anatomical, physiological and biochemical levels, in cut flowers, in order to understand and control the senescence process. Ultimately, the results obtained provide a scientific basis for recommendations on postharvest treatments for cut flowers. Water stress accelerates the senescence of cut flowers, to which - although they are placed into water - water does not reach in sufficient quantity due to transport difficulties through the stem to the flower/blossom. Stem blockages are a particular handicap in the case of species with woody stems, which is why I offer as a research subject the regulation of the senescence of cut flowers in this type of plant. On the other hand, water deficit - resulting from e.g. imperfect functioning of conductive vessels or increased susceptibility to stem blockages in cut flowers - may accelerate their senescence by inducing oxidative stress or acceleration of petal ageing processes, including PCD. All these relationships will be the subject of the proposed research.
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