

**Summary Specification of Scientific Accomplishments of a Thesis Supervisor Candidate**  
maximum 2 pages - it should be a synthesis of the most important elements of accomplishments

Name and surname, degree, scientific title: <b>Julita Rabiza-Świder, dr hab., prof. SGGW</b>	
Scientific discipline/s	Agriculture and horticulture
Professional development (scientific degrees and titles) chronologically	<p><b>PhD degree in agriculture, discipline horticulture</b>; Faculty of Horticulture and Landscape Architecture at the Warsaw University of Life Sciences (SGGW), 25.06.2003</p> <p><b>Habilitated doctor of agricultural sciences in the discipline of agriculture and horticulture</b>, Faculty of Horticulture, Biotechnology and Landscape Architecture, Warsaw University of Life Sciences, 29.05.2019</p>
Most important publications/patents from the last 3 years (max. 10)	<p><b>Rabiza-Świder J.</b>, Skutnik E., Jędrzejuk A., Sochacki D. 2020. Effect of preservatives on senescence of cut daffodil (<i>Narcissus L.</i>) flowers. The Journal of Horticultural Science and Biotechnology 95(3): 331-340.</p> <p><b>Rabiza-Świder J.</b>, Skutnik E., Jędrzejuk A., Rochala-Wojciechowska J. 2020. Nanosilver and sucrose delay the senescence of cut snapdragon flowers. Postharvest Biology and Technology 165: 111165.</p> <p>Skutnik E., Jędrzejuk A., <b>Rabiza-Świder J.</b>, Rochala-Wojciechowska J., Latkowska M., Łukaszewska A. 2020. Nanosilver as a novel biocide for control of senescence in garden cosmos. Scientific Reports 10: 10274.</p> <p><b>Rabiza-Świder J.</b>, Skutnik E., Jędrzejuk A., Łukaszewska A. 2020. Postharvest treatments improve quality of cut peony flowers. Agronomy 10(10): 1583.</p> <p>Skutnik E., <b>Rabiza-Świder J.</b>, Jędrzejuk A., Łukaszewska A. 2020. The effect of the long-term cold storage and preservatives on senescence of cut herbaceous peony flowers. Agronomy 10(11): 1631.</p> <p>Skutnik E., Łukaszewska A., <b>Rabiza-Świder J.</b> 2021. Effects of postharvest treatments with nanosilver on senescence of cut lisianthus (<i>Eustoma grandiflorum</i> (Raf.) Shinn.) flowers. Agronomy 11: 215.</p>
Experience in work with PhD students (defended dissertations,	Auxiliary advisor in the doctoral thesis: Musial D.A.: "Control of postharvest longevity of forced common lilac flowers ( <i>Syringa vulgaris L.</i> )", 17.07.2019.

initiated dissertation procedures), chronologically	
Project/grant accomplishments (from the last 10 years)	Effect of Chrysal BVB + on the quality of cut tulip flowers, Chrysal Company project, 2020, the project leader.  Optimisation of production conditions for selected potted fern species, Company project, 2023, the project leader.
Theme scope - research problem - for the solving of which the PhD student is sought	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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