

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

Name and surname, degree, title:	
Discipline/ disciplines of science	Biology
Professional development (degrees and titles) in chronological order	<p>1994 PhD in plant cell and molecular biology, the Faculty of Forestry, the Department of Forest Genetics and Plant Physiology, Swedish University of Agricultural Sci., SLU Umeå, Sweden</p> <p>1984 Master in biochemistry and molecular biology, the Faculty of Agriculture, the Department of Biochemistry, Life Sciences University, UP, Poznań, Poland</p> <ul style="list-style-type: none"> • CURRENT POSITION <p>2008 – present Professor ord., the Department of Plant Genetics, Breeding and Biotechnology, Institute of Biology, Warsaw University of Life Sciences, Warsaw, Poland</p> <ul style="list-style-type: none"> • PREVIOUS POSITIONS <p>1999 – 2007 Professor ortd, the Department of Botany, Faculty of Natural Sci., University of Stockholm, Stockholm, Sweden</p> <p>1997 – 1999 Assoc. Professor, the Faculty of Forestry, the Department of Forest Genetics and Plant Physiology, Swedish University of Agricultural Sci., SLU Umeå, Sweden</p> <p>1994 – 1995 Researcher, the Faculty of Forestry, the Department of Forest Genetics and Plant Physiology, Swedish University of Agricultural Sci., SLU Umeå, Sweden</p> <p>1989 – 1994 PhD fellow, the Faculty of Forestry, the Department of Forest Genetics and Plant Physiology, Swedish University of Agricultural Sci., SLU, Umeå, Sweden</p>
Most important publications/patens over the last 3 years (maximum 10)	<p>METACASPASE8 (MC8) Is a Crucial Protein in the LSD1-Dependent Cell Death Pathway in Response to Ultraviolet Stress MJ Bernacki, A Rusaczonek, K Gołębiewska, AB Majewska-Fala, ...International Journal of Molecular Sciences 25 (6), 3195, 2024</p> <p>Biotechnological Potential of the Stress Response and Plant Cell Death Regulators Proteins in the Biofuel Industry. MJ Bernacki, J Mielecki, A Antczak, M Drożdżek, D Witoń, ...Cells 12 (16), 2018, 2023</p> <p>To be or not to be? Are reactive oxygen species, antioxidants, and stress signalling universal determinants of life or death? M</p>

	<p>Szechyńska-Hebda, RZ Ghalami, M Kamran, F Van Breusegem, ...Cells 11 (24), 4105, 2022</p> <p>ROS and redox regulation of cell-to-cell and systemic signaling in plants during stress RM María ÁngelesPelález-Vico Yosef Fichman Sara I.Zandalinas FrankVan ...Free Radical Biology and Medicine 193 (https://doi.org/10.1016/j 2022</p> <p>The CRK5 and WRKY53 Are Conditional Regulators of Senescence and Stomatal Conductance in Arabidopsis P Burdiak, J Mielecki, P Gawroński, S Karpiński Cells 11 (22), 3558, 2022</p> <p>Aux/IAA11 Is Required for UV-AB Tolerance and Auxin Sensing in Arabidopsis thaliana J Mielecki, P Gawroński, S Karpiński International Journal of Molecular Sciences 23 (21), 13386, 2022</p> <p>Aboveground plant-to-plant electrical signaling mediates network acquired acclimation</p> <p>M Szechyńska-Hebda, M Lewandowska, D Witoń, Y Fichman, R Mittler, ...The Plant Cell 34, 3047-3065, 2022</p> <p>Plants Talk To One Other S Karpiński ACADEMIA. The magazine of the Polish Academy of Sciences, 67-69-67-69 2022</p> <p>MITOGEN-ACTIVATED PROTEIN KINASE 4 impacts leaf development, temperature, and stomatal movement in hybrid aspen. D Witoń, M Sujkowska-Rybkowska, J Dąbrowska-Bronk, W Czarnocka, ...Plant Physiology 186 (4), 2190-2204, 2021</p> <p>CIA2 and CIA2-LIKE are required for optimal photosynthesis and stress responses in Arabidopsis thaliana P Gawroński, P Burdiak, LB Scharff, J Mielecki, M Górecka, ...The Plant Journal 105 (3), 619-638, 2021</p>
<p>Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order</p>	<p>2022- present two PhD students</p> <p>2008 – 2022 8 Postdocs/ 6 PhD students / 17 Master Students, the Faculty of Horticulture, Biotechnology and Landscape Architecture, the Department of Plant Genetics, Breeding and Biotechnology, Warsaw University of Life Sciences, Warsaw, Poland</p> <p>1999 – 2007 6 Postdocs/ 5 PhD / 6 Master Students, the Department of Botany, Faculty of Natural Sci., University of Stockholm, Stockholm, Sweden</p>
<p>Project/grants achievements (from the last 10 years)</p>	<p>OPUS 20 2020/39/B/NZ3/02103 Foliar temperaturę regulation...</p> <p>OPUS15 - 2018/29/B/NZ3/01198 projekt NCN 2019.– 2022; BIOSTRATEG2 (CROPTech) -</p> <p>BIOSTRATEG2/298241/NCBR/2016 projekt NCBR 2016 – 2019; MAESTRO6 - 2014/14/A/NZ1/00218 projekt NCN pt.</p>

	<p>„2015. – 2020; PBS3 (ISOR) - PBS3/A9/37/2015 projekt NCN 2015 – 2018; OPUS6 - 2013/11/B/NZ3/00973 projekt NCN 2014 – 2018,; OPUS4 - 2012/07/B/NZ3/00228 projekt NCN. 2013 – 2017; WELCOME/2008/1 Pierwszy Laureat programu WELCOME Fundacji na rzecz Nauki Polskiej (FNP), 6 647 000 PLN. – 2009 – 2014.</p>
<p>Topic – research problem – for which the candidate supervisor seeks a doctoral student</p>	<ol style="list-style-type: none"> 1. Regulation of plant resistance to biotic and abiotic stresses Molecular physiology - Biology/Agriculture. Identification of genes and regulatory mechanisms in plants. Molecular biology, molecular genetics 2. Regulation of photosynthesis and photoinhibition, leaf temperature, non-photochemical energy quenching (NPQ) - cellular retroactive signalling pathways. Molecular biology and genetics, physiology. biochemistry and biophysics.
<p><u>Contact details:</u> Faculty/Institute E-mail address Tel.</p>	<p>Inst. Of Biology, WULS Warsaw stanisław_karpinski@sggw.edu.pl 22 59 32172, cell. 519 059 959 https://www.facebook.com/S.M.Karpinski</p>