### Journal of Horticultural Research

## **Editor-in-Chief**

Teresa Orlikowska, National Institute of Horticultural Research, Skierniewice, Poland

Statistical Editor: Robert Maciorowski, National Institute of Horticultural Research, Skierniewice, Poland

#### **Editorial Board**

Katarzyna Adamczewska-Sowińska, University of Life Sciences, Wrocław, Poland Maria Luisa Amodio, Department of Agriculture, Food, Natural Resources and Engineering, University of Foggia, Italy Grzegorz Bartoszewski, Institute of Biology, Warsaw University of Life Sciences - SGGW, Warsaw, Poland Andreas Börner, Genebank Department, Leibniz Institute of Plant Genetics and Crop Plant Research, Gatersleben, Germany Giancarlo Colelli, Department of Agriculture, Food, Natural Resources and Engineering, University of Foggia, Italy Bohdan Dobrzański, University of Life Sciences, Lublin, Poland Yike Gao, Department of Landscape Architecture, Beijing Forestry University, China Elena Iakimova, Institute of Ornamental and Medicinal Plants, Sofia, Bulgaria László Kredics, Department of Microbiology, University of Szeged, Hungary Peter Kulakow, International Institute of Tropical Agriculture, Nigeria Ewa Łojkowska, Intercollegiate Faculty of Biotechnology, University of Gdansk and Medical University of Gdansk, Poland Anna Nadolska-Orczyk, Plant Breeding and Acclimatization Institute - National Research Institute, Radzików, Poland Viliam Novák, Institute of Hydrology, Slovak Academy of Sciences, Bratislava, Slovak Republic Marcin Nowicki, Institute of Agriculture Entomology and Plant Pathology, University of Tennessee, Knoxville, USA Aleksa Obradović, Faculty of Agriculture, University of Belgrade, Serbia Bożena Pawłowska, Faculty of Biotechnology and Horticulture, University of Agriculture, Kraków, Poland Barbara Reed, Oregon State University, USDA, Corvallis, USA Dariusz Sochacki, Department of Ornamental Plants, Warsaw University of Life Sciences - SGGW, Warsaw, Poland Laiqing Song, Yantai Academy of Agricultural Sciences, Shandong, China Tatyana Stefanovska, National University of Life and Environmental Sciences of Ukraine, Kyiv, Ukraine Johan Van Huylenbroeck, Plant Science Unit, Flanders Research Institute for Agriculture, Fisheries and Food, Melle, Belgium Xiangming Xu, National Institute of Agricultural Botany, East Malling Research Station, United Kingdom **Advisory Board** Margherita Beruto - Chair ISHS, Ornamental Plants Division, Sanremo, Italy

Mariusz Chojnowski – Cultivar Testing, Nursery and Gene Bank Resources Department, the National Institute of Horticultural Research, Poland Juan Carlos Díaz-Pérez – Department of Horticulture, University of Georgia, USA

Nesibe Ebru Kafkas - Department of Horticulture, Çukurova University, Adana, Turkey

Benyamin Lakitan - College of Agriculture, Sriwijaya University, Palembang, Indonesia

Hatice Özaktan - Department of Plant Protection, Ege University, İzmir, Turkey

Valentina Pidlisnyuk – Department of Environmental Chemistry and Technology, Jan Evangelista Purkyně University in Ústí nad Labem, Czech Republic Stanisław Pluta – Department of Horticultural Crop Breeding, the National Institute of Horticultural Research, Poland

Marek Renčo - Institute of Parasitology, Slovak Academy of Sciences, Košice, Slovakia

Krzysztof Rutkowski - Fruit and Vegetable Storage and Processing Department, the National Institute of Horticultural Research, Poland

Lidia Sas-Paszt - Department of Microbiology and Rhizosphere, the National Institute of Horticultural Research, Poland

Grażyna Soika - Department of Plant Protection, the National Institute of Horticultural Research, Poland

Waldemar Treder - Department of Agroengineering, the National Institute of Horticultural Research, Poland

Chandrama Prakash Upadhyaya – Department of Biotechnology, Dr. Harisingh Gour Central University, Sagar, Madhya Pradesh, India Paweł Wójcik – Department of Plant Cultivation and Fertilization, the National Institute of Horticultural Research, Poland

Language Editor: Sciendo

Editor: Joanna Miszczak

# Journal indexed by:

AGRIS; AGRO; CABI – CAB Abstracts; Celdes; CNPIEC; DOAJ, EBSCO Discovery Service; Foodline Science; Google Scholar; Index Copernicus; J-Gate; Microsoft Academic Search; Naviga (Softweco); Primo Central (ExLibris); ProQuest Agriculture Journals, ProQuest Illustrata: Natural Science, ProQuest Natural Sciences Journals, ProQuest SciTech Journals, PSJC, Scopus; SIGZ; Summon (Serials Solutions/ProQuest); TDOne (TDNet); Thomson Reuters – BIOSIS Previews, Zoological Record; WorldCat (OCLC)

## Editorial Office/Published by:

the National Institute of Horticultural Research Konstytucji 3 Maja 1/3, 96-100 Skierniewice, Poland Phone: 48(46)8333434, fax: 48(46)8333186 www.inhort.pl e-mail: journal@inhort.pl Electronic version of J. Hort. Res. is available online at <u>https://sciendo.com/journal/johr</u> http://www.inhort.pl/journal-of-horticultural-research/