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Modernizing Horticultural Crop Improvement for Enhanced Yields and Quality

Guest Editors:

Dr. Guofei Tan
Institute of Horticulture, Guizhou Academy of Agricultural Sciences, Guiyang 550006, China

Prof. Dr. Lifei Chen
College of Horticulture, Jilin Agricultural University, Changchun 130118, China

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Message from the Guest Editors

Light, temperature, water, fertilizer, climate, soil, variety, cultivation techniques, and management methods all affect the yield and quality of horticultural crops. Improving the yield and quality of horticultural crops is needed to meet people's demand for high-quality and diverse horticultural products. The utilization of fertilizers, pesticides, hormones, and agricultural films not only satisfies horticultural production, but also becomes increasingly environmentally unfriendly. At the same time, the use of modern biotechnology such as tissue culture, genetically modified organisms, and gene knockout in horticultural crops is becoming increasingly evident. However, ensuring the safe utilization of biotechnology in horticultural crops is a long-term and worthy hot topic of biological research. How to balance safety, efficiency, sustainability, yield, and quality of horticultural crops requires in-depth research from various aspects.

This Special Issue will focus on the utilization of new technologies, methods, models, and germplasm resources for safe, efficient, and sustainable improvement of horticultural crop yield and quality.

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Editor-in-Chief

Prof. Dr. Luigi De Bellis
Department of Biological and Environmental Sciences and Technologies, Università del Salento, Centro Ecotekne, Via Provinciale Lecce Monteroni, 73100 Lecce, Italy

Message from the Editor-in-Chief

Horticultural plants and their products provide sustenance, health, and beauty. A confluence of factors is putting increasing pressure on horticultural production to evolve, and innovative research is addressing these challenges. *Horticulturae* provides a venue to communicate research results in a rapid manner with open access, allowing everyone the opportunity to stay abreast of leading research addressing horticulture. I invite you to consider publishing the results of your research in this high quality, peer-reviewed journal.

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Contact Us

Horticulturae Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/horticulturae
horticulturae@mdpi.com
𝕏@Horticul_MDPI