



Plants

an Open Access Journal by MDPI

CiteScore: 7.6

Indexed in PubMed

Impact Factor: 4.1

Special Issue Reprint

Recent Advances in Horticultural Plant Genomics

Edited by: Zhongxiong Lai, Yuling Lin and Yuqiong Guo

This Reprint compiles recent review articles and original research at the forefront of horticultural plant genomics. The past two decades have witnessed transformative progress in the field, fueled by advancements in sequencing technologies and bioinformatics. Moving beyond reference genomes, the field now leverages integrated multi-omics approaches—including pan-genomics, transcriptomics, and non-coding RNA analysis—to decode the complexity of horticultural species. This collection highlights applications in fruit trees, vegetables, ornamental flowers, tea plants, and medicinal herbs, offering novel insights into gene function, regulatory networks, and evolutionary dynamics. By providing comprehensive genomic resources and a mechanistic understanding, the presented works support accelerated molecular breeding and trait improvement, addressing both fundamental questions and practical challenges in horticulture.

