Special Issue

Genomic Insights into Climate Resilience: Tools and Strategies for Coffee Improvement

Message from the Guest Editors

Genetic diversity is the cornerstone in building climate-resilient, high-yielding coffee systems. The strategic use of coffee genetic resources in breeding programs is critical in achieving this goal. Collecting, conserving, and characterizing coffee germplasm support crop improvement efforts, enabling the development of varieties that withstand drought, heat, pests, and diseases without compromising yield or quality. The efficient use of these genetic resources maximizes the impact of conservation investments, ensuring breeders have access to diverse, adaptable coffee genotypes for climate-smart development. Advances in biotechnology —from genomics to metabolomics and pangenomics— are unlocking new insights into the genetic foundations of climate resilience in coffee.

This Special Issue highlights the latest research and innovations driving sustainable coffee production. We welcome contributions focusing on genomic tools, germplasm characterization, and breeding strategies that pave the way for climate-resilient coffee, securing the future of this vital crop amid global environmental challenges.

Guest Editors

Dr. Marco Cristancho
National Center for Coffee Research—CENICAFE, Chinchiná 173001, Colombia
Dr. Jorge Berny
World Coffee Research, Portland, OR 97225, USA

Deadline for manuscript submissions

25 July 2026

Horticulturae

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.1

mdpi.com/si/244551

Horticulturae
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
horticulturae@mdpi.com

mdpi.com/journal/horticulturae

Horticulturae

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.1

mdpi.com/journal/horticulturae

About the Journal

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.

Editor-in-Chief

Prof. Dr. Luigi De Bellis
Department of Biological and Environmental Sciences and Technologies (DiSTeBA), Salento University, 73100 Lecce, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, FSTA, and other databases.

Journal Rank:

JCR - Q1 (Horticulture) / CiteScore - Q1 (Horticulture)

MDPI