

## Special Issue

# Modern Strategies for Sustainable Orchard Crop Management: Enhancing Yield, Fruit Quality and Disease Resistance

### Message from the Guest Editors

In the context of climate change and a continuously increasing global population, agriculture—and therefore fruit cultivation—is faced with new and important challenges. The increasing occurrence of extreme meteorological events, heatwaves, and drought periods, make innovative agronomical practices aimed at improving plant resistance to stresses necessary. In this regard, several agronomical practices related to, for instance, soil management or the reuse of waste products as amendments and fertilizers have shown to improve soil fertility, environmental biodiversity, and plant health. Agronomic management has a significant impact on perennial fruit crops, influencing physiological processes, the frequency of diseases and pests, yield, and the qualitative composition of the derived products. The aim of the Special Issue is to collate studies on the environmental sustainability of agronomic practices in orchard crops in terms of production yield and fruit quality. We invite work on the following topics: soil management, irrigation, fertilization, pest control, training systems, harvesting techniques, and varietal selection.

### Guest Editors

Dr. Luca Mercenaro

Dr. Pierfrancesco Deiana

Dr. Mario Santona

### Deadline for manuscript submissions

30 November 2025



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