

# Special Issue

## Agrobiological Means for Sustainable Production in Controlled Environment Agriculture

### Message from the Guest Editors

Controlled environment agriculture (CEA) is a plant cultivation practice that allows high-quality yields to be obtained by regulating growing factors, such as light, temperature, humidity, CO<sub>2</sub> concentration, fertilizers, etc. Nowadays, various innovative techniques facilitate a more efficient regulation of such factors to reduce various resources and improve sustainability in CEA. On the other hand, manipulating growing factors to provoke mild stress on plants and induce metabolic defense responses could increase bioactive compounds which are beneficial for human health or protect plants from diseases without adverse effects on plant yield. Another significant aspect of sustainability in CEA is reducing the use of fertilizers and chemicals for plant protection. In solving this problem, the use of nanomaterials, biostimulants, and natural products for disease control is more fervently emphasized. However, for sustainability in CEA, it is important to study the effect of not only one or another measure on plants, but also the interactions between various agrobiological means. In this Special Issue, research and review articles which focus on the topics mentioned above are welcome.

### Guest Editors

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### Deadline for manuscript submissions

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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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### Editor-in-Chief

Prof. Dr. Luigi De Bellis  
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