



## **Epigenetic Modifications and Breeding Application in Horticultural Plants**

Collection Editors:

**Dr. Pingxian Zhang**

**Dr. Sadaruddin Chachar**

**Prof. Dr. Jinzhi Zhang**

**Dr. Changfei Guan**

### **Message from the Collection Editors**

Dear colleague,

We have witnessed tremendous technique advances and mechanically epigenetic regulation in plant epigenetics, which have been characterized as playing vital roles in developmental cues and environmental adaptation. As an emerging research field in horticultural plants, epigenetic modifications have already been revealed to regulate various processes like fruit development and ripening. In this Topical Collection, we aim to present papers on new detecting methods, identification epigenetic enzymes to install, remove and recognize epigenetic marks, epigenetic regulation of developmental cues and environmental adaptation, and artificial intelligence technologies (i.e. machine learning and deep learning) for prediction epigenetic modifications in horticultural plants. Potential topics include, but are not limited to:

Detecting methods for epigenetic modifications

Genome-wide profiles of epigenetic modifications

Epigenetic regulation of development processes

Epigenetic improvement for environmental adaptation

Genome-wide identification of epigenetic enzymes

Prediction of epigenetic modification by machine and deep learning Future perspectives





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## Editor-in-Chief

### Prof. Dr. Luigi De Bellis

Department of Biological and  
Environmental Sciences and  
Technologies (DiSTeBA), Salento  
University, 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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*Horticulturae* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

mdpi.com/journal/horticulturae  
horticulturae@mdpi.com  
X@Horticul\_MDPI