Special Issue

Advances in Genetics of Pollination Mechanism and Fruit Development of Horticultural Crops

Message from the Guest Editors

Pollination in horticultural plants is crucial for reproduction, enabling fertilization and the production of seeds; it ensures genetic diversity and plant survival. Fruit development following successful pollination leads to the formation of edible structures, vital for seed dispersal and ecosystem balance. The study of pollination mechanisms and fruit development in horticultural crops is rooted in understanding plant reproduction and agricultural productivity. This Special Issue, "Advances in Genetics of Pollination Mechanism and Fruit Development of Horticultural Crops", aims to explore the genetic underpinnings of these processes, highlighting cutting-edge research that bridges traditional breeding with modern genomic tools. We seek to compile innovative studies that elucidate the molecular and genetic pathways governing pollination efficiency, female and male gametophyte development, flower organogenesis, fruit formation, and fruit maturation. We invite submissions that employ advanced techniques such as CRISPR/Cas9, transcriptomics, and genome-wide association studies (GWASs) to uncover novel genes and regulatory networks.

Guest Editors

Dr. Lulu Wang

College of Life Science, Fujian Agriculture and Forestry University, Fuzhou 350002, China

Dr. Xiaoping Niu

College of Life Science, Fujian Agriculture and Forestry University, Fuzhou 350002, China

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

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Editor-in-Chief

Prof. Dr. Leslie A. Weston
Gulbali Centre for Agriculture, Water and Environment Research, Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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