

Special Issue

Genetics and Molecular Breeding of Cucurbitaceous Crops

Message from the Guest Editor

Cucurbitaceae stands out as one of the most economically important fruit and vegetable crop families, following the Solanaceae family. Cucurbitaceae includes diverse crop species such as cucumber, melon, watermelon, zucchini, pumpkin, and several different gourds.

The genome assembly of most of these cucurbit crops has been completed, playing a pivotal role in the development of molecular markers and the discovery of new functional genes, essential for precision breeding. There are a wide range of breeding traits in these crops, including resistance to abiotic and biotic stress, functional components, flowering habits, fertility, taste and texture of edible parts, and fruit size and shape. Recent trends in breeding focus on genomics and bioinformatics analysis, as well as precision breeding relying on genome editing technologies for functional genes.

We welcome innovative research articles and review papers that explore not only germplasm resources and conventional breeding but also diverse molecular and genomic approaches.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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