

# Plant Breeding In The Omics Era

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order to create desired genotypes and phenotypes for specific purposes. manipulation involves either controlled pollination, genetic engineering, or both, followed by artificial selection of progeny. using conventional plant breeding technology agriculture ...

### **Plant Breeding - OMICS Publishing Group**

Omics in plant breeding 1. "OMICS" In Crop Breeding "OMICS" In Crop Breeding Poornima KN Roll No: 9869 2. Contents Contents Introduction Omics Space Genomics Transcriptomics Proteomics Metabolomics Phenomics Case Studies Summary Conclusion Approaches and applications 3. INTRODUCTION 4.

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Studies on cultivated tomatoes revealed genetic changes over time through early domestication and modern plant breeding that has led to today's cultivars being much larger than their wild relatives. 10. Using omics, the genes responsible for proteins that confer or block the desired traits can be determined.

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### **Omics in Plant Breeding / Edition 1 by Aluizio Borem ...**

Omics technologies in the Cucurbitaceae family have been mainly focused on many areas including mapping technology, gene expression study, gene and new alleles identification for new traits in plant breeding, and the study of organellar omics ( Pawelkowicz et al., 2015 ).

### **Plant Breeding - an overview | ScienceDirect Topics**

Plant Molecular Breeding: Way Forward through Next Generation  
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Sequencing. Integration of Omics Approaches for Low-Phosphorus Tolerance in Maize. Omics: Modern Tools for Precise Understanding of Drought Adaptation in Plants. Salinity Stress: 'Omics' Approaches. Unraveling the Abiotic Stress Tolerance in Common Bean through Omics.

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Omics in Plant Breeding.. [Aluízio Borém; Roberto Fritsche-Neto] -- The use of computational and high-throughput methods, such as genomics, proteomics, transcriptomics, or known collectively as "--Omics", to study plant biology for well over a decade now.

### **Omics in Plant Breeding. (eBook, 2014) [WorldCat.org]**

For this purpose, omics approaches such as metabolomics and transcriptomics are used not only for basic research to understand relationships between important traits and

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metabolism but also for the development of next generation breeding strategies of tomato plants, because an increase in the knowledge improves the taste and quality, stress resistance and/or potentially health-beneficial metabolites and is connected to improvements in the biochemical composition of tomatoes.

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